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IN REPLY  
REFER TO: DTIC-R (FOIA 2017-116)

JUN 21 2017

This is in response to your email dated June 15, 2017, requesting information under the Freedom of Information Act (FOIA) (enclosure 1). Under Department of Defense rules implementing the FOIA, published at 32 CFR 286, your request was categorized as "other."

Enclosure 2 is a computer-generated bibliography prepared by matching the subject terms in your request against our Technical Report database. The bibliography may contain some documents that do not apply to the specific subject areas in which you are interested; however, to eliminate any of the key search terms could also eliminate documents that do apply to your subject area(s) of interest.

Enclosure 3 consists of a bibliography that contains unclassified descriptions of classified and/or unclassified/limited distribution documents related to your request. These documents may only be released by the controlling activity. Requests for these documents should be forwarded to the controlling activity, usually identified in the Distribution Statement field of the citation. This office upon request can research documents with no controlling activity identified. NOTE: Although some of the citations listed on the bibliography at attachment 2 may indicate that the document can be viewed and/or downloaded in full text, be advised that these citations/documents are not available to the general public through the DTIC Online Public Technical Reports database.

To date, there are no assessable fees for services from DTIC. Please understand that other members of the public may submit a FOIA request for copies of FOIA requests received by this office, or the names of those who have submitted requests. Should such occur, your name and, if asked for, a copy of your request will be released; however, your home address and home telephone number will not be released. Other private citizens who have obtained your name by using such a request may contact you; however,

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correspondence from the DoD about your request will be on official letterhead. Please contact me at (703) 767-9204 if you have any questions. Thank you for your interest in obtaining information from DTIC.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Hamilton", written over a horizontal line.

Michael Hamilton  
FOIA Program Manager

3 Enclosures

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
A Line Segment Curve-fitting Algorithm Related To Optimal Encoding Of Information,	AD0633301	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Gluss,Brian	9/1/1962		11	AMRL-TR-65-237 (AMRLTR65237)	TR-65-237 (TR65237)	AF 33(616)-8240 (AF336168240)	A - 01 - APPROVED FOR PUBLIC RELEASE, 20 - COPYRIGHT - GOVT. PURPOSE RGTS	Availability: Published in Information and Control v5 n3 p261-7 Sep 1962.	U - Unclassified
Further Remarks On Line Segment Curve-fitting Using Dynamic Programming,	AD0634081	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Gluss,Brian	8/1/1962		7	AMRL-TR-65-1 (AMRLTR651)	TR-65-1 (TR651)	AF 33(616)-8240 (AF336168240)	A - 01 - APPROVED FOR PUBLIC RELEASE, 20 - COPYRIGHT - GOVT. PURPOSE RGTS	Availability: Published in Communications of the Association for Computing Machinery v5 n8 p441-3 Aug 62.	U - Unclassified
Sea Water Evaporator Scale Control	AD0787177	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Bradstreet, Jr, S. W.	11/1/1949		67	ARF-90-501-G-6 (ARF90501G6)		TCG-37358 (TCG37358)	A - 01 - APPROVED FOR PUBLIC RELEASE, 20 - COPYRIGHT - GOVT. PURPOSE RGTS	Approved for public release; distribution is unlimited. Available only to DTIC users. U.S. Government or Federal Purpose Rights License.	U - Unclassified
A Comparison Of The Joint Common Database Data Model And The Warsim Object Model	ADA432843	INSTITUTE FOR DEFENSE ANALYSES ALEXANDRIA VA	Morton, Richard, Haugh, Brian, Loaiza-Lemos, Francisco, Wartik, Steven, Heystek, Deborah, Hieb, Michael	1/1/2002	Conference paper	12		ODISC4 (ODISC4)		A - 01 - APPROVED FOR PUBLIC RELEASE, 20 - COPYRIGHT - GOVT. PURPOSE RGTS	Approved for public release; distribution is unlimited., Availability: Available only to DTIC users. U.S. Government or Federal Purpose Rights License.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Evaluation Of Mechanical Design Level Of Electronic Equipment Leading To Vibration And Shock Criteria	AD0000335	ARMOUR RESEARCH FOUNDATION CHICAGO IL	JACOBSON, R. H., MINTZ, F.	11/20/1952	Rept. no. 3, 1-31 Oct 1952	8	ARF-90-1297K-3 (ARF901297K3)	WADC (WADC)	AF 33(616)-223 (AF33616223)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 NOV 1952. Other requests shall be referred to Wright Air Development Center, Wright-Patterson AFB, OH 45433.	U - Unclassified
Low Temperature Lubricating Oil Additives	AD0001133	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Gavlin, G., Jones, S. P., Jr., Swire, E. A.	9/1/1952		42	RDO-R601-301 (RDOR601301), WADC-TR52-22 (WADCTR5222)	TR52-22 (TR5222), WADC (WADC)	AF 33(038)-1644 (AF330381644)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; Sep 1952. Other requests shall be referred to Wright Air Development Center, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Survey Of Bore-surface Temperature Investigations Conducted At Armour Research Foundation, Purdue University And Midwest Research Institute	AD0004280	MIDWEST RESEARCH INST KANSAS CITY MO	Hendry, Wickliffe B., Bendersky, David	11/1/1952	Technical rept. phase no. 9	63		OCO (OCO)	DA-23-072-ORD-23 (DA23072ORD23)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1952. Other requests shall be referred to Office of the Chief of Ordnance, Washington, DC.	U - Unclassified
Studies To Determine The Electrical And Physical Properties Of Aircraft Lubricating Oils	AD0005374	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Radnik, J. L., Petersen, C. C.	5/1/1952	Quarterly rept. no. 9, Feb-Apr 1952	35		WADC (WADC)	AF 33(038)-3793 (AF330383793)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1952. Other requests shall be referred to Wright Air Development Center, Wright-Patterson AFB, OH 45433. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
External Feeder For Rocket Launcher, T110e2	AD0005594	ARMOUR RESEARCH FOUNDATION CHICAGO IL	STERN, R. E., KAMP, E. A.	10/1/1952	Memorandum rept. no. 17, 1-31 Aug 1952	15		AMC-AF (AMCAF)	AF 33(038)-21836 (AF3303821836)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 OCT 1952. Other requests shall be referred to Air Force Materiel Command, Wright-Patterson AFB, OH 45433-6503.	U - Unclassified
External Feeder For Rocket Launcher, T110e2	AD0005595	ARMOUR RESEARCH FOUNDATION CHICAGO IL	STERN, R. E., KAMP, E. A.	11/1/1952	Memorandum rept. no. 18, 1-30 Sep 1952	6	ARF-90-990K (ARF90990K)	AFATL (AFATL)	AF 33(038)-21836 (AF3303821836)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 NOV 1952. Other requests shall be referred to Air Force Armaments Laboratory, Eglin AFB, FL 45443.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
A Study Of A Proposed Multiple Barrel, Single-shot, 57mm Aircraft Gun System. Volume 2: Engineering Study	AD0006545	CHICAGO UNIV IL INST FOR AIR WEAPONS RESEARCH		8/1/1952		27		USAF (USAF)	AF 33(038)-15068 (AF3303815068)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 AUG 1952. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Aircraft Ammunition	AD0006735	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Pinsky, J.	9/1/1952	Rept. no. 33 1-30 Sep 1952	18	ARF-90-811M (ARF90811M)	OCO (OCO)	DA-11-022-ORD-7 (DA11022ORD7)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 29 OCT 1952. Other requests shall be referred to Office of the Chief of Ordnance, Department of the Army, Washington, DC 20310. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Exploration Of Vanadium-base Alloys	AD0007417	ARMOUR RESEARCH FOUNDATION CHICAGO IL	ROSTOKER, W., MCPHERSON, D. J.	12/1/1952	Quarterly rept. no. 7, 14 Aug-14 Nov 1952	44	90-774-B (90774B)	WADC (WADC)	AF 33(038)-8517 (AF330388517)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 DEC 1952. Other requests shall be referred to Wright Air Development Center, Wright-Patterson AFB, OH 45433.	U - Unclassified
Preliminary Study Of 2.75 Inch Recoilless Rifle	AD0011518	ARMOUR RESEARCH FOUNDATION CHICAGO IL	NORDHAUS, JOHN P.	8/1/1952	Final rept.	79	90-1026L (901026L)	FA (FA)	DA-11-022-ORD-234 (DA11022ORD234)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Test and Evaluation; 13 AUG 1952. Other requests shall be referred to Frankford Arsenal, Philadelphia, PA. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation Of Means And Materials To Combat Thermal Radiation Flash Burns,	AD0127857	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Goldsmith,A., Takata,A. N., Fieldhouse,I. B.	1/16/1957	Final rept. Jul 54-1 Mar 56.	113			DA-19-129-qm-187 (DA19129qm187)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Experimental Observations Of Interior Pressures In Hollow Models - Part Ii. Models With And Without Interior Equipment	AD0131882	IIT RESEARCH INST CHICAGO IL	SCHIFFMAN, T., WIEDERMANN, A.	7/1/1956		1	DASA-1022 (DASA1022)	1022 (1022)	AF33 616 2644 (AF336162644)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
The Application Of Armour Research Foundation Flame-sprayed Ceramic Coatings On Missile Components.	AD0154541	IIT RESEARCH INST CHICAGO IL		6/1/1957		1	1825 (1825), NAVWEPS-5611 (NAVWEPS5611)	5611 (5611)	N123 60530 10047A (N1236053010047A)	E - 04 - DOD ONLY		U - Unclassified
Feasibility Study Vidat Modified Core Sub-system I	AD0250039	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	HORI,S.	10/1/1960	Final rept. 1 Jul-30 Sep 60,	1	ARF-5143-4 (ARF51434), MDC TR-60-34 (MDCTR6034)	TR-60-34 (TR6034)	AF29 600 2484 (AF296002484)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Dynamic Stress Concentrations Around Unlined Openings	AD0253057	AIR FORCE SPECIAL WEAPONS CENTER KIRTLAND AFB N MEX	PANTALL,JACK T. JR., AULD,HARRY E.	2/1/1961		1				C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Jp-4 Fuel System Icing	AD0253973	ARMOUR RESEARCH FOUNDATION CHICAGO IL	LANGER, GERHARD	10/1/1960	Final rept.	96	ARF-3165-3 (ARF31653), WADD-TR-60-826 (WADDTR60826)	TR-60-826 (TR60826), WADD (WADD)	AF 33(616)-6850 (AF336166850)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1960. Other requests shall be referred to Wright Air Development Division, Wright-Patterson AFB, OH 45433.	U - Unclassified
Evaluation Of Automatic Electronic Switching	AD0268970	ARMY ELECTRONIC PROVING GROUND FORT HUACHUCA ARIZ		6/1/1961		1	SIG 960 78 (SIG96078)			C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Hypersonic Reconnaissance Investigations. Volume II	AD0291556	ARMOUR RESEARCH FOUNDATION CHICAGO IL	MONTGOMERY, A. J., SLATER, P. N., WILSON, L. N.	12/5/1962	Technical rept.	116	TR-60-891-VOL-2 (TR60891VOL2)	ASD (ASD)	AF 33(616)-6322 (AF336166322)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 5 Dec 1962. Other requests shall be referred to Director, Wright Air Development Division, Wright-Patterson AFB, OH 45433.	U - Unclassified
Glass Fiber Strength Enhancement Through Bundle Drawing Operations	AD0296050	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cornish, R. H., Chaney, R. M., Islinger, J. S., Levinson, D. W.	12/7/1962	Quarterly rept. no. 2, 7 Sep-7 Dec 1962	31	ARF-8263-2 (ARF82632)	NAVWEPS (NAVWEPS)	N600(19)58450 (N6001958450)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Specific Authority; Test and Evaluation; 07 DEC 1972. Other requests shall be referred to Naval Air Systems Command, ATTN: AIR-50174, Washington, DC 20362.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Research On Potential High Energy Monopropellants</b>	AD0300170	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	SOLOMON,IRVINE J.	7/10/1958	Quarterly rept. no. 1, 15 Mar-15 Jun 58,	18			AF 33(615)-5575 (AF336155575)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Superoxides And Ozonides</b>	AD0316954	CALLERY CHEMICAL CO PITTSBURGH PA	Hashman, J. S., McElroy, A. D., Marshall, M. D., Guibert, C. R., Renforth, J. C., Berkstresser, J. W., Klodowski, H. F., Klein, M. J., Solomon, I. J., Hites, R., Kacmarek, A., McDonough, J.	2/1/1960	Quarterly rept. no. 4, annual summary rept. 1 Mar 1959-29 Feb 1960	32		USAF (USAF)	AF 33(616)-6382 (AF336166382), ARPA ORDER-24-59 (ARPAORDER2459)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; FEB 1960. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330.	U - Unclassified
<b>Superoxides And Ozonides</b>	AD0321016	CALLERY CHEMICAL CO PITTSBURGH PA	Hashman, J. S., McElroy, A. D., Guibert, C. R., Cooper, W. J., Klodowski, H. F., Renforth, J. C., Klein, M. J., Solomon, I. J., Grimm, E. J., Gasner, E. L., Kacmarek, A. J.	11/1/1960	Quarterly rept. no. 7, 1 Sep-30 Nov 1960	23		USAF (USAF)	AF 33(616)-6382 (AF336166382), ARPA ORDER-24-59 (ARPAORDER2459)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; NOV 1960. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
The Current Status Of Nitroguanidine Research And Development Program In U.s.a.	AD0322050	PICATINNY ARSENAL DOVER NJ FELTMAN RESEARCH LABS	PICARD, JEAN P.	6/1/1960		17	PRS-5 (PRS5)	PA (PA)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Other requests shall be referred to Feltman Research Labs., Picatinny Arsenal, Dover, NJ.	U - Unclassified
Feed System For Vigilante.	AD0329260	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Nutting,R. G.	4/1/1962	Monthly progress rept. no. 56 for Apr 62,	10	ARF-8136-56 (ARF813656)		DA 30-144-503-ORD-108 (DA30144503ORD108)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Rocket-boosted Assist For 40mm Grenade Cartridge	AD0332148	ARMOUR RESEARCH FOUNDATION CHICAGO IL	BERGMANN, E. P.	7/31/1962	Final rept.	48	ARF-D238 (ARFD238)	PA (PA)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 JUL 1962. Other requests shall be referred to Picatinny Arsenal, Dover, NJ.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Flare Rr-96 (xy-1)/al. Infrared Countermeasure Rocket Flare	AD0332818	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Raisen, Elliott, Katz, Sidney	10/1/1962	Final rept. 26 Sep 1960-1 Sep 1962	35	ASD-TDR-62-821 (ASDTDR62821)	TDR-62-821 (TDR62821), ASD (ASD)	AF 33(600)-42101 (AF3360042101)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 27 JAN 2015. Other requests shall be referred to Headquarters Air Force Life Cycle Management Center, ATTN: AFLCMC/XP, Wright-Patterson AFB, OH 45433.	U - Unclassified
Integration Techniques For Defense Subsystems (u)	AD0333128	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	SMITH,FRED B.	11/1/1962	Final rept.	87	ASD-TDR62 925 (ASDTDR62925)	TDR62 925 (TDR62925)	AF33 616 7259 (AF336167259)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
Non-ablating Heat Shielding Materials.	AD0367426	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		5/10/1962	Final summary rept. 15 Jan 61-15 Apr 62.	64	ARF-6049-14 (ARF604914)		NOW-61-0482 (NOW610482)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Engineering Tests For Vigilante. Part ii.	AD0368365	SPERRY GYROSCOPE CO GREAT NECK N Y		6/1/1957	Final rept. Apr-Jun 57.	44			DA-30-069-ORD-1974 (DA30069ORD1974)	B - 03 - U.S. GOVT. ONLY	Distribution limited to U.S. Gov't. agencies only. Other requests for this document must be referred to Office, Chief of Research and Development, Washington, D. C. 20310.	U - Unclassified
Preliminary Design And Dynamic Analysis Of The Mount For The Towed Version Of Vigilante. Part iiii.	AD0368366	SPERRY GYROSCOPE CO GREAT NECK N Y		6/1/1957	Final rept. May-Jun 57.	70			DA-30-069-ORD-1974 (DA30069ORD1974)	B - 03 - U.S. GOVT. ONLY	Distribution limited to U.S. Gov't. agencies only. Other requests for this document must be referred to Office, Chief of Research and Development, Washington, D. C. 20310.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Contrail Visibility Control	AD0372229	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Lieberman, A.	2/1/1960	Final rept. 15 Apr 56-15 Jan 60,	120	ARF-3087-15 (ARF308715), AFCRC-TR-60-242 (AFCRCTR60242)	TR-60-242 (TR60242), AFCRC (AFCRC)	AF19-(604)-1815 (AF196041815)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; Feb 60. Other requests shall be referred to Air Force Cambridge Research Center, Geophysics Research Directorate, Air Research and Development Command, Bedford, MA.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Studies, Investigations, And Evaluations Of Specific Problems Involving Aerobiological Technology.	AD0378860	IIT RESEARCH INST CHICAGO ILL	Ehrlich,R., Miller,S., Schneider,M. D., Yamashiroya,H. M.	7/1/1966	Final rept. Oct 62-Jun 66,	166			DA-18-064-AMC-49(A) (DA18064AMC49A)	B - 03 - U.S. GOVT. ONLY	Distribution limited to U.S. Gov't. agencies only; Test and Evaluation; 9 Jan 80. Other requests for this document must be referred to Commander, Dugway Proving Ground, Attn: Technical Library, Dugway, UT 84022.	U - Unclassified
Analytical And Experimental Studies On Titan Ii Operational Base Facility Design.	AD0387919	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Sevin,E., Sauer,R. W.	10/21/1960	Final rept.,	148				C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: No Foreign without approval of Commander, SAMSO (SMSDI-STINFO) Los Angeles Air Force Station, Calif. 90045.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Mss-i. A Radar Pulse Interference Prediction Program</b>	AD0409642	ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPOLIS MD	Bond, G. W.	3/1/1962		50	ECAC-TM-X009-5 (EACTMX0095)	ECAC (ECAC)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1962. Other requests shall be referred to Electromagnetic Compatibility Analysis Center, Attn: ACAP Annapolis, MD.	U - Unclassified
<b>Evaluation Of Silicon Metallic Rectifiers.</b>	AD0470976	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		12/30/1960	Interim engineering rept. no. 14, 1 Oct-30 Dec 60.	15			NObs72332 (NObs72332)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Similitude Problems In Scale Model Design Of A Gear Drive.</b>	AD0495387	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Tyzzar,F. G.	6/15/1952	Technical rept.,	21	ARF-90-1100-A-TR-1 (ARF901100ATR1)		NObs-54536 (NObs54536)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified
<b>Methods Of Purification Of Metals And Intermetallic Compounds.</b>	AD0802970	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Braman,Robert S.	6/1/1962	Summary technical rept. 15 Jun 60-14 May 61,	48	ARF-3133-36 (ARF313336), WADD-TR-59-303-Pt-3 (WADDTR59303Pt3)	TR-59-303-Pt-3 (TR59303Pt3)	AF 33(616)-5895 (AF336165895)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: No Foreign without approval of Air Force Materials Lab., Wright-Patterson AFB, Ohio 45433. Attn: MAYE.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Gas Turbine-generator Program.	AD0855492	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		1/1/1960	Final rept. 17 Oct 58-17 Aug 59 on Phase 1.	227	WADC-TR-59-612 (WADCTR59612)	TR-59-612 (TR59612)	AF 33(600)-38077 (AF3360038077)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Controlled: all requests to Director, Air Force Aero Propulsion Lab., Attn: APO-4. Wright-Patterson AFB, Ohio 45433.	U - Unclassified
Characterization Of Effluvia From Cannabis	AD0875762	IIT RESEARCH INST CHICAGO IL	Krotoszynski, Boguslaw K., Dravnieks, Andrew	6/1/1970	Final rept.	80	IITRI-C6199 (IITRIC6199), LWL-CR-12C69 (LWLCR12C69)	CR-12C69 (CR12C69), LWL (LWL)	DAAD05-69-C-0430 (DAAD0569C0430)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Test and Evaluation; JUN 1970. Other requests shall be referred to Army Materiel Systems Analysis Activity, ATTN: AMXSY-PS, Aberdeen Proving Ground, MD 21005.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Improved Vanadium-base Alloys	ADB182695	ARMOUR RESEARCH FOUNDATION CHICAGO IL		12/20/1961	Final rept.	41	ARF-2210-6 (ARF22106)	NAVWEPS (NAVWEPS)	NOW-61-0417-C (NOW610417C)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 DEC 1961. Other requests shall be referred to the Bureau of Naval Weapons, Washington, DC. Document partially illegible.	U - Unclassified
Engine Generator Tests 30 Kw - 60 Cps	ADB187583	ARMOUR RESEARCH FOUNDATION CHICAGO IL		3/21/1952	Rept. no. 1	85	ARF-90-1024E (ARF901024E)	AERDL (AERDL)	DA-44-009-ENG-556 (DA44009ENG556)	E - 04 - DOD ONLY, X - 57 - EXPORT CONTROL	Distribution authorized to DoD only; Critical Technology; 01 MAY 1984. Other requests shall be referred to Army Belvoir R&D Ctr., ATTN: STRBE-S, Ft. Belvoir, VA 22060. This document contains export-controlled technical data.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Catalytic Surface Recombination Of Atomic Oxygen	ADB190926	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hacker, David S., Marshall, Samson A., Steinberg, Martin	1/1/1960	Quarterly rept. no. 2	6	ARF-4203-2 (ARF42032)	NASA (NASA)	NASW-77 (NASW77)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1960. Other requests shall be referred to National Aeronautics and Space Administration, Washington, DC. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Catalytic Surface Recombination Of Atomic Oxygen	ADB190927	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hacker, David S., Marshall, Samson A., Steinberg, Martin	1/24/1961	Quarterly rept. no. 5	8	ARF-4203-5 (ARF42035)	NASA (NASA)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 24 JAN 1961. Other requests shall be referred to National Aeronautics and Space Administration, Washington, DC. Document partially illegible.	U - Unclassified
A Mathematical Model Of A Rubber Resilient Mounting,	ADB216302	ARMOUR RESEARCH FOUNDATION CHICAGO IL	McDowell, E. L., Muster, D.	1/1/1952		21		XD (XD)		C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
The Influence Of Oxygen Contents On Transformations In A Titanium Alloy Containing 11% Molybdenum	ADB218991	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Delazaro, D. J., Rostoker, W.	1/1/1952		12		WADC (WADC)	AF33(038)-1634 (AF330381634)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1952. Other requests shall be referred to Flight Research Laboratory, Wright Air Development Center, Wright-Patterson AFB, OH 45433. Document partially illegible.	U - Unclassified
Incendiary Capsule Firing Flame Thrower Feasibility Study.	ADB223041	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Nusbaum, M. S.	12/30/1960	Final rept.,	65	ARF-4202-10 (ARF420210)	CWL (CWL)	DA18-108-405-CML-487 (DA18108405CML487)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution: DTIC users only., Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Detonation Tube Studies Of Heterogeneous Detonation Phenomenology</b>	ADB256594	IIT RESEARCH INST CHICAGO IL	Tulis, Allen J., Pape, Ronald, Austing, James L.	6/1/2000	Final rept. 29 Feb 1996-31 Dec 1998	100	IITRI-C06813-F (IITRIC06813F)	NV* (NV)	DAAB12-96-C-0007 (DAAB1296C0007)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; Nov 95. Other requests shall be referred to US Army Night Vision and Electronic Sensors Dir., ATTN: AMSEL-RD-NV-CM, Fort Belvoir, VA 22060-5806.	U - Unclassified
<b>Stable White Coatings</b>	ADB270425	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Zerlaut, Gene A., Harada, Y.	11/1/1962	Interim rept. 1 Apr-1 Oct 1962	103	ARF-3207-14 (ARF320714)	NASA (NASA)	NAS7-100 (NAS7100), 950111 (950111)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Nov 1962. Other requests shall be referred to NASA, Washington, DC 20546.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Metallurgical Effects Of Explosive Strain Rates On Metal Alloys	ADB270682	AEROJET-GENERAL CORP DOWNEY CA ORDNANCE DIV	Wilkin, J. F., Lieberman, I.	9/12/1962	Quarterly technical rept. no. 4, 1 Jul-30 Sep 1962	15	0513-01(04)QP (05130104QP)	NASA (NASA)	NAS8-2416 (NAS82416)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified
Effects Of Deformation In The Metastable Austenitic Condition On The Properties Of High-strength Steel Forgings	ADB270726	PHILCO-FORD CORP NEWPORT BEACH CA AERONUTRONIC DIV	Martin, C. F., Gerberich, W. W.	11/30/1962	Quarterly technical rept. no. 2	27	U-1935 (U1935)	ASD (ASD)	AF 33(657)-8539 (AF336578539)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Determination Of The Weldability And Elevated Temperatures Stability Of Refractory Metal Alloys	ADB270834	WESTINGHOUSE ELECTRIC CORP DAYTON OH ASTRONUCLEAR LAB	Lessmann, G. G., Stoner, D. R.	12/20/1964	Quarterly rept. no. 6, 21 Sep-20 Dec 1964	64	WANL-PR(P)-006 (WANLPRP006), NASA-CR-54301 (NASACR54301)	CR-54301 (CR54301), NASA (NASA)	NAS3-2540 (NAS32540)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
An Investigation Of A New Nickel Alloy Strengthened By Dispersed Thoria	ADB271086	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION HAMPTON VA LANGLEY RESEARCH CENTER	Manning, Charles R., Jr., Royster, Dick M., Braski, David N.	7/1/1963	Technical note	42	NASA-TN-D-1944 (NASATND1944)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Determination Of The Emissivity Of Materials	ADB271555	PRATT AND WHITNEY AIRCRAFT GROUP EAST HARTFORD CT	Askwyth, W. H.	6/30/1962	Progress rept. 1 Jan-30 Jun 1962	23	PWA-2088 (PWA2088)	NASA (NASA)	NASW-104 (NASW104)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified
Measurement Of The Heat Transfer To Bodies Of Revolution In Free Flight By Use Of A Catcher Calorimeter	ADB271729	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION MOFFETT FIELD CA AMES RESEARCHCENTER	Chapman, Gary T., Jackson, Charles T., Jr	7/1/1963	Technical note	42	NASA-A-TN-D-1890 (NASAATND1890)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Streer Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Production Machining Of Tungsten	ADB271862	DOUGLAS AIRCRAFT CO INC SANTA MONICA CA MISSILE AND SPACE SYSTEMS DIV	Babel, Henry W., Archer, Frank E.	7/1/1964		34	DOUGLAS PAPER-1812 (DOUGLASPAPER 1812)	USAF (USAF)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
Design And Testing Of Honeycomb Sandwich Cylinders Under Axial Compression	ADB272078	DOUGLAS AIRCRAFT CO INC SANTA MONICA CA MISSILE AND SPACE SYSTEMS DIV	Cunningham, John H., Jacobson, Marcus J.	8/30/1962	Engineering Paper no1393.	20		NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
An/arc-171(c) Measurements Analysis For Nato Aew Frequency Assignment Update	ADB372456	ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPOLIS MD	Shannon, Herbert H.	3/1/1982	Consulting rept.	104	ECAC-CR-80-149 (ECACCR80149)	USMCEB (USMCEB)	F19628-78-C-0006 (F1962878C0006)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; MAR 1982. Other requests shall be referred to DoD Electromagnetic Compatibility Analysis Center, Annapolis, MD 21402.	U - Unclassified
Research Study On Characterization Of C Sub 21 - C Sub 30 Hydrocarbons And Their Mixtures.	ADB800246	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Massenberg, Sylvia	8/1/1952	Monthly progress rept. no. 6,	3		XD (XD)		E - 04 - DOD ONLY	DISTRIBUTION AUTHORIZED TO DOD ONLY;ADMINISTRATIVE/OPERATIONAL USE; 24 FEB 1999. OTHER REQUESTS SHALL BE REFERRED THROUGH DEFENSE TECHNICAL INFORMATION CENTER, DTIC-BCS, 8725 JOHN J KINGMAN RD., FT. BELVOIR, VA 22060-6218	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
2.75 In. Automatic Rocket Launcher, T110e3 And F-80 Installation Programs.	ADB801528	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Bobco, W. D., Kamp, E. A.	2/26/1952	Memorandum rept.,	2		USAF (USAF)	AF-33(038)-14538 (AF3303814538)	E - 04 - DOD ONLY	DISTRIBUTION AUTHORIZED TO DOD ONLY; ADMINISTRATIVE /OPERATIONAL USE; 24 FEB 1999. OTHER REQUESTS SHALL BE REFERRED THROUGH DEFENSE TECHNICAL INFORMATION CENTER, DTIC-BCS, 8725 JOHN J KINGMAN RD., FT. BELVOIR, VA 22060-6218	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Corrosion Preventive Additives - And Appendixes 1 And 2,	ADB802036	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Feinleib, M., Francis, H. T.	7/1/1952		20	AF-TR-6592 (AFTR6592)	XD (XD)	AF 33(038)-9202 (AF330389202)	E - 04 - DOD ONLY	DISTRIBUTION AUTHORIZED TO DOD ONLY; ADMINISTRATIVE /OPERATIONAL USE; 24 FEB 1999. OTHER REQUESTS SHALL BE REFERRED THROUGH DEFENSE TECHNICAL INFORMATION CENTER, DTIC-BCS, 8725 JOHN J KINGMAN RD., FT. BELVOIR, VA 22060-6218	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Gas-mantle-type Infrared Source	ADB812983	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Atlas, L., Griffith, J. S.	7/15/1952	Rept. no. 16			AERDL (AERDL)	DA-44-009-ENG-452 (DA44009ENG452)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Administrative/Operational Use; 23 Feb 99. Other requests shall be referred through Defense Technical Information Center, DTIC-BCS, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060-6218., Availability: Hard copy only., Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Devices And Techniques For The Suppression Of Ice Fog Due To Internal Combustion Engine Operation	ADB813412	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hardison, L., Wilkens, L.	9/16/1952		20	18 (18)	AERDL (AERDL)	DA-44-009-ENG-455 (DA44009ENG455)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Administrative/Operational Use; 11 Mar 99. Other requests shall be referred through Defense Technical Information Center, DTIC-BCS, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060-6218., Availability: Hard copy only., Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
The Synthesis Of Omega-trifluorostearic Acid And Omega-trifluoro-n-octadecylamine	ADB813413	ARMOUR RESEARCH FOUNDATION CHICAGO IL	McGuire, Richard G., Gavlin, Gilbert	10/2/1952	Final rept.	35		ONR (ONR)	NONR-666(00) (NONR66600)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Administrative/Operational Use; 11 Mar 99. Other requests shall be referred through Defense Technical Information Center, DTIC-BCS, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218., Availability: Hard copy only., Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
An Investigation Of Noise Transmission Paths In A Scale Model Gear Assembly	ADB870258	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Tyzzer, F. G., Hardy, H. C.	6/15/1952	Technical rept.	19	TR-1 (TR1)	NAVEXOS (NAVEXOS)	NObs-54356 (NObs54356)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Administrative/Operational Use; 27 August 1999. Other requests shall be referred through Defense Technical Information Center, DTIC-BCS, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218. Availability: Document partially illegible. Hard copy only.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Producing Molybdenum Alloys By Kroll Reduction And Extrusion Consolidation.</b>	ADB953151	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Lillie,C. Robert, Simcoe,Charles R.	11/9/1960	Rept. for 18 Sep 59-17 Sep 60,	57	ARF-2188-6 (ARF21886)		NOas-60-6019 (NOas606019)	B - 03 - U.S. GOVT. ONLY	Distribution limited to U.S. Gov't. agencies only; Test and Evaluation; 28 Oct 81. Other requests for this document must be referred to Commander, Naval Sea Systems Command, Attn: Code 9961. Washington, DC 20362.	U - Unclassified
<b>Improved Vanadium-base Alloys.</b>	ADB953166	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rajala,B. R., Van Thyne,R. J.	12/27/1960	Final rept. 1 Dec 59-30 Nov 60,	42	ARF-2191-6 (ARF21916)		NOas-60-6056 (NOas606056)	B - 03 - U.S. GOVT. ONLY	Distribution limited to U.S. Gov't. agencies only; Test and Evaluation; 6 Nov 81. Other requests for this document must be referred to Commander, Naval Sea Systems Command, Attn: Code 9961. Washington, DC 20362.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Exploration Of Vanadium Base Alloys.	ADB956595	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rostoker,W., Hansen,M.	1/10/1952	Quarterly rept. no. 3, 8 Aug-8 Nov 51,	42	10 (10)		AF 33(038)-8517 (AF330388517)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified
Recrystallization Welding Of Aluminum Aircraft Alloys.	ADB956620	ARMOUR RESEARCH FOUNDATION CHICAGO IL		3/20/1952	Final rept.	105				C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84; Other requets must be referred to Commander, AFWAL/GLIST, Wright-Patterson, AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Literature Review And Industrial Survey Of Brazing.</b>	ADB956682	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Banks,R. R., Bredzs,N., Parks,J. M., Lubker,R. A.	6/12/1952	Final rept.,	193			DA-11-022-ORD-324 (DA11022ORD324)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Critical Technology; 26 Jun 84. Other requests must be referred to Commander, Army Armament Research and Development Center, Attn: DRSMC-TSS(D). Dover, NJ 07801.	U - Unclassified
<b>Titanium Phase Diagrams.</b>	ADB956690	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kessler,H. D., McPherson,D. J., Hansen,M.	7/17/1952	Rept. for 16 Mar-15 May 52,	23	ARF-90-773-B-15 (ARF90773B15)		AF 33(038)-8708 (AF330388708)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Phase Diagrams Of The Titanium-aluminum, Titanium-chromium-iron, And Titanium-oxygen Alloy Systems (summary Of Results).	ADB956728	ARMOUR RESEARCH FOUNDATION CHICAGO IL		1/22/1952		12	ARF-90-773-B-S (ARF90773BS)		AF 33(038)-8708 (AF330388708)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified
	ADC051510	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wunder, F. R., Bobco, W. D.	7/20/1953	Rept. no. 4,	7		OCO (OCO)	DA-11-022-ORD-1191 (DA11022ORD1191)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling office: Office of Chief of Ordnance, Artillery Branch, Dept. of the Army, Washington, DC.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Evaluation Of Iff Interrogator Improvements In A Jamming Environment	ADC070063	ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPOLIS MD	Rothbauer, R. A.	12/1/1982	Consulting rept.	85	ECAC-CR-82-148 (ECACCR82148)	XD (XD)	F19628-80-C-0042 (F1962880C0042)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; Dec 1982. Other requests shall be referred to DoD Electromagnetic Compatibility Analysis Center, Annapolis, MD 21402., NOFORN	S - Secret
	ADC954995	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wintermoyer, E. M., Kamp, E. A.	5/6/1952	Progress rept. no. 24 for Mar 52,	22			DA-11-022-ORD-12 (DA11022ORD12)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955089	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wassel, E. S., Wintermoyer, E. M.	6/5/1952	Progress rept. no. 25 for Apr 52,	31			DA-11-022-ORD-12 (DA11022ORD12)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955231	ARMOUR RESEARCH FOUNDATION CHICAGO IL		12/20/1950	Research rept. no. 16, 1-30 Nov 50.	16			W-11-022-ORD-11337 (W11022ORD11337)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Proceedings Of The Automatic Target Recognizer System And Technology Conference (2nd), Held In Fort Belvoir, Virginia On March 17 - 18, 1992. Volume 3,	ADC959961	TACTICAL WEAPONS GUIDANCE AND CONTROL INFORMATION ANALYSIS CENTER CHICAGO IL	Ebersole, John F.	6/1/1992		223	GACIAC-PR-92-01-VOL-3 (GACIACPR9201VOL3)	DARPA (DARPA)	DLA900-86-C-0022 (DLA90086C0022)	E - 04 - DOD ONLY, 21 - JOURNAL ARTICLES - CITATION ONLY, X - 57 - EXPORT CONTROL	Distribution authorized to dod only; critical technology; 17 mar 92. other requests shall be referred to commander, us amc smart weapons management office, attn: amsmi-sw, redstone arsenal, al 35898-5222. this document contains export-controlled technical data. availability: gaciac, iit research institute, 10 west 35th st., chicago, il 60616-3799. no copies furnished by dtic. NOFORN.	S - Secret
Non-ablating Heat Shielding Materials.	ADC960203	ARMOUR RESEARCH FOUNDATION CHICAGO IL		1/18/1962	Quarterly rept. no. 4.	18		NAVWEPS (NAVWEPS)	NOW 61-0482-c(FBM) (NOW610482cFBM)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling Office: Naval Bureau of Weapons, Washington, DC.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Methods For Field Detection Of Proteins And Bacteria	AD0000311	ARMOUR RESEARCH FOUNDATION CHICAGO IL	EHRlich, RICHARD	12/31/1952	Monthly progress rept. no. 6, 1-31 Dec 1952	24		ABL/MD (ABLMD)	DA-18-064-CML-2106 (DA18064CML2106)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 DEC 1952. Other requests shall be referred to Army Biological Laboratories, Frederick, MD. Document partially illegible.	U - Unclassified
Planning Program For Air Force Structures Tests	AD0001707	ARMOUR RESEARCH FOUNDATION CHICAGO IL	FITZGERALD, J. E.	1/16/1953	Progress rept. no. 17, 12 Dec 1952-12 Jan 1953	7	90-1052M (901052M)	AMC-AF (AMCAF)	AF 33(038)-30029 (AF3303830029)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 16 JAN 1953. Other requests shall be referred to Air Force Materiel Command, Wright-Patterson AFB, OH 45433-6503.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Underground Explosion Test Program - Sandstone - Volume 1	AD0004478	REMINGTON RAND UNIVAC ALEXANDRIA VA		2/15/1953	Technical rept. no. 5	317	PX-29919 (PX29919)	COE/CA/SD (COECASD)	DA-04-157-ENG-298 (DA04157ENG298)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 FEB 1953. Other requests shall be referred to Army Engineer District, Sacramento, CA. Document partially illegible.	U - Unclassified
Investigation To Determine Dynamic Loading Caused By Combination Of Gun Muzzle-blast And Aerodynamic Forces	AD0004760	IIT RESEARCH INST CHICAGO IL	BARTEN, H. J., ROSENBERG, P.	3/16/1953	Rept. for 2 Feb-1 Mar 1953	6	ARF-24 (ARF24)	AMC-AF (AMCAF)	AF 33(038)-19728 (AF3303819728)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; MAR 1953. Other requests shall be referred to Air Materiel Command, Wright-Patterson AFB, OH 45433.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Ammunition Belt Link And Feeder For 30mm Automatic Gun, T121	AD0005035	ARMOUR RESEARCH FOUNDATION CHICAGO IL	WINTERMOYER, E. M.	2/1/1953		6	ARF-K-022-7 (ARFK0227)	SA (SA)	DA-11-022-ORD-229 (DA11022ORD229)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 19 MAR 1953. Other requests shall be referred to Springfield Armory, Springfield, MA.	U - Unclassified
2.75-inch T110 Series Rocket Launchers	AD0005037	ARMOUR RESEARCH FOUNDATION CHICAGO IL	SMITH, R. E., KAMP, E. A.	2/11/1953	Final rept. 30 Jul-31 Dec 1952	33	ARF-K-041-7 (ARFK0417)	OCO (OCO)	DA-11-022-ORD-1088 (DA11022ORD1088)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 11 FEB 1953. Other requests shall be referred to Office of the Chief of Ordnance, Department of the Army, Washington, DC 20310.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Effects Of Boron Upon The Properties Of Steel	AD0006102	ARMOUR RESEARCH FOUNDATION CHICAGO IL	SHEEHAN, J. P., GLASSENBERG, M.	1/30/1953	Final rept.	68	90-993-B (90993B)	WADC (WADC)	AF 33(038)-22259 (AF3303822259)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 JAN 1953. Other requests shall be referred to Aeronautical Systems Center, Wright-Patterson AFB, OH 45433.	U - Unclassified
Research On Infrared Sensitive Photoconductors	AD0006425	ARMOUR RESEARCH FOUNDATION CHICAGO IL	JOHNSON, GORDON L., TOMPKINS, EDWIN H.	2/13/1953	Formal rept. no. 3, 1 Dec 1952-31 Jan 1953	20		AERDL (AERDL)	DA-44-009-ENG-1416 (DA44009ENG1416)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 JAN 1953. Other requests shall be referred to Army Engineer Research and Development Laboratories, Fort Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research On Infrared Sensitive Photoconductors	AD0006426	ARMOUR RESEARCH FOUNDATION CHICAGO IL	JOHNSON, GORDON L., TOMPKINS, EDWIN H.	2/1/1953	Monthly technical rept. no. 3	4		AERDL (AERDL)	DA-44-009-ENG-1416 (DA44009ENG1416)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; FEB 1953. Other requests shall be referred to Army Engineering Research and Development Laboratories, Fort Belvoir, VA 22060.	U - Unclassified
Study Of The Effect Of Orientation On Dynamic Loading And Response Of Structures	AD0006492	ARMOUR RESEARCH FOUNDATION CHICAGO IL		3/27/1953	Rept. no. 8, 16 Feb-16 Mar 1953.	11		AMC-AF (AMCAF)	AF 33(616)-166 (AF33616166)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 MAR 1953. Other requests shall be referred to Air Force Materiel Command, Wright-Patterson AFB, OH 45433-6503.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Ammunition Belt Link And Feeder For 30 Mm Automatic Gun, T121	AD0006816	ARMOUR RESEARCH FOUNDATION CHICAGO IL	WINTERMOYER, E. M., KAMP, E. A.	1/14/1953	Rept. no. 15, 1-31 Dec 1952	15	ARF-90-1030K (ARF901030K)	SA (SA)	DA-11-022-ORD-229 (DA11022ORD229)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 14 JAN 1953. Other requests shall be referred to Springfield Armory, Springfield, MA.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
2.75-inch T110 Series Rocket Launchers	AD0007254	ARMOUR RESEARCH FOUNDATION CHICAGO IL	BARDY, P. J., SMITH, R. E.	4/1/1953	Memorandum rept. no. 5, 1-30 Nov 1952	7	5 (5)	OCO (OCO)	DA-11-022-ORD-1088 (DA11022ORD1088)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 APR 1953. Other requests shall be referred to Office of the Chief of Ordnance, Research and Development Division, Washington DC. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Titanium Alloys For Elevated Temperature Application	AD0007415	ARMOUR RESEARCH FOUNDATION CHICAGO IL	CAREW, WILLIAM F., CROSSLEY, FRANK A., KESSLER, HAROLD D.	11/21/1952	Progress rept. no. 5, 1 Jun-31 Aug 1952	10		WADC (WADC)	AF 33(038)-22806 (AF3303822806)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 21 NOV 1952. Other requests shall be referred to Wright Air Development Center, Wright-Patterson AFB, OH 45433.	U - Unclassified
Research And Development Of Liquid Propellant Guns	AD0007416	ARMOUR RESEARCH FOUNDATION CHICAGO IL	HANSEN, L. J., ROSENBERG, P.	3/11/1953	Progress rept. no. 4, 1-31 Jan 1953	13		BUORD (BUORD)	NORD-12883 (NORD12883)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 11 MAR 1953. Other requests shall be referred to Bureau of Ordnance (Navy), Washington, DC 20350.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Three-dimensional Cascade Theory	AD0007590	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Lee, John C., Yampolsky, J.	12/15/1952		21		WADC (WADC)	AF-33-616-102 (AF33616102)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 DEC 1952. Other requests shall be referred to Wright Air Development Center, Wright Patterson AFB, OH.	U - Unclassified
	AD0007874	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Sauer, R. W., Calvin, R. J., Fitzgerald, J. E., Fraenkel, S. J., McDowell, E., Schiffman, T., Schmidt, L. A., Sevin, E., Sharman, A.	2/1/1953	Progress rept. no. 18, 12 Jan-12 Feb 1953	21		AMC-AF (AMCAF)	AF 33(038)-30029 (AF3303830029)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Controlling DoD Organization: Air Force Materiel Command, Wright-Patterson AFB, OH 45433-6503. Document partially illegible.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Remanufacturing Specifications For Lightweight Waveguides	AD0008068	ARMOUR RESEARCH FOUNDATION CHICAGO IL		4/4/1953	Special rept.	21		WADC (WADC)	AF 33(038)-23588 (AF3303823588)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 04 APR 1953. Other requests shall be referred to Wright Air Development Center, Wright-Patterson AFB, OH 45433. Document partially illegible.	U - Unclassified
Investigation To Determine Dynamic Loading Caused By Combination Of Gun Muzzle-blast And Aerodynamic Forces	AD0008566	IIT RESEARCH INST CHICAGO ILL	BARTEN,H.J., ROSENBERG,P.	6/15/1954		1			AF33 038 19728 (AF3303819728)	E - 04 - DOD ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Three-dimensional Shock Tube Facility	AD0011332	ARMOUR RESEARCH FOUNDATION CHICAGO IL	DICKENS, R. G., CUSHING, V. J.	5/13/1953	Rept. for 15 Mar-15 Apr 1953	16	ARF-8 (ARF8)	AMC-AF (AMCAF)	AF 33(616)-220 (AF33616220)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 13 MAY 1953. Other requests shall be referred to Army Materiel Command, Wright-Patterson AFB, OH 45433. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research And Development On Liquid Propellant Guns	AD0011431	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hansen, L. J., Pinsky, J.	4/29/1953	Research rept. no. 5	9		BUORD (BUORD)	NORD-12883 (NORD12883)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 29 APR 1953. Other requests shall be referred to Bureau of Ordnance (Navy), Washington, DC 20350.	U - Unclassified
Octave Band Analysis Of Noise Measurements Of Shipboard Living Quarters	AD0011432	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Bishop, D. E., Callaway, D. B.	3/25/1953	Technical rept. no. 3	53	TR-3 (TR3)	BUSHIPS (BUSHIPS)	NOBS-54669 (NOBS54669)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 25 MAR 1953. Other requests shall be referred to Bureau of Ships, Washington, DC.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Design, Study 70mm Antiaircraft Launchers, Rocket	AD0011519	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Carey, N. W., Bobco, W. D.	5/18/1953		12		OCO (OCO)	DA-11-022-ORD-967 (DA11022ORD967), DA-11-022-ORD-831 (DA11022ORD831)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Test and Evaluation; 18 MAY 1953. Other requests shall be referred to Office of the Chief of Ordnance, Washington, DC 20310. Document partially illegible.	U - Unclassified
Ammunition Belt Link And Feeder For 30mm Automatic Gun, T121	AD0011520	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wintermoyer, E. M.	5/26/1953	Progress rept. Apr 1953	8		SA (SA)	DA-11-022-ORD-229 (DA11022ORD229)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Administrative/Operational Use; 26 MAY 1953. Other requests shall be referred to Springfield Armory, Springfield, MA. Document partially illegible.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Removal Of Moisture From Crystal Unit Holders	AD0011621	ARMOUR RESEARCH FOUNDATION CHICAGO IL	GOLDSMITH, PAUL	11/13/1952	Final rept.	37	ARF-90-1193E (ARF901193E)	WADC (WADC)	AF 18(600)-157 (AF18600157)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 13 NOV 1952. Other requests shall be referred to Wright Air Development Center, Wright-Patterson AFB, OH 45433.	U - Unclassified
Investigation And Evaluation Of Tank Influence Signature For Use In Anti-tank Fuzes	AD0011760	ARMOUR RESEARCH FOUNDATION CHICAGO IL	MILLER, H. C.	5/20/1953	Monthly progress rept. 22 Jan-21 Feb 1953	7	ARF-A-039-7 (ARFA0397)	FA (FA)	DA-11-022-ORD-1196 (DA11022ORD1196)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; FEB 1953. Other requests shall be referred to Picatinny Arsenal, Dover, NJ.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation To Determine Dynamic Loading Caused By Combination Of Gun Muzzle-blast And Aerodynamic Forces	AD0012768	IIT RESEARCH INST CHICAGO ILL	BARTEN,H.J., CUSHING,V.J.	5/1/1953		1			AF33 038 19728 (AF3303819728)	E - 04 - DOD ONLY		C - Confidential
37mm Automatic Gun, T172	AD0017503	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rosenblum, R. A., Bobco, W. D.	5/12/1953	Rept. no. 10 for the month of Apr 1953	9		OCO (OCO)	DA-11-022-ORD-966 (DA11022ORD966)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1953. Other requests shall be referred to Office of the Chief of Ordnance (Army), Washington, DC.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Kinematic Study For A 37 Mm Antiaircraft Gun And Feed System. Supplement	AD0017505	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rosenblum, R. A., Keiser, R. D.	1/31/1952	Rept. for Nov-Dec 1951	56		OCO (OCO)	DA-11-022-ORD-314 (DA11022ORD314)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1952. Other requests shall be referred to Office of the Chief of Ordnance (Army), Washington, DC.	U - Unclassified
70mm Aa Rocket Launcher And Mount, T160	AD0017804	ARMOUR RESEARCH FOUNDATION CHICAGO IL	CAREY, N. W., BOBCO, W. D.	9/16/1953	Rept. no. 16 for Aug 1953	8		OCO (OCO)	DA-11-022-ORD-967 (DA11022ORD967)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 16 SEP 1953. Other requests shall be referred to Office of the Chief of Ordnance, Washington, DC 20310.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Single Shot And Repeating 2.75 In. Recoilless Rifles To Be Mounted On Aircraft	AD0018317	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Nordhaus, John P.	1/22/1953	Monthly rept. no. 6, 1-31 Dec 1952	21	ARF-L027-5 (ARFL0275)	FA (FA)	DA-11-022-ORD-865 (DA11022ORD865)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 22 JAN 1953. Other requests shall be referred to Picatinny Arsenal, Dover, NJ.	U - Unclassified
Development Of T131 Rocket Ammunition	AD0020249	ARMOUR RESEARCH FOUNDATION CHICAGO IL	DEBOO, J. H., PINSKY, J.	9/21/1953		34		OCO (OCO)	DA-11-022-ORD-1308 (DA11022ORD1308)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 21 SEP 1953. Other requests shall be referred to Office of the Chief of Ordnance, Washington, DC 20310.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of T131 Rocket Ammunition	AD0020250	ARMOUR RESEARCH FOUNDATION CHICAGO IL	DEBOO, J. H., PINSKY, J.	9/24/1953		25		OCO (OCO)	DA-11-022-ORD-1308 (DA11022ORD1308)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 24 SEP 1953. Other requests shall be referred to Office of the Chief of Ordnance, Washington, DC 20310.	U - Unclassified
Investigation And Evaluation Of Tank Influence Signature For Use In Anti-tank Mine Fuzes.	AD0027158	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	MILLER,H.C.	3/5/1954		1			DA11 022ORD1196 (DA11022ORD1196)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Three-dimensional Shock Tube	AD0028430	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Dickens, R. G., Cushing, V. J., Chapin, S., Schmidt, L. A., Weimer, D.	4/1/1954	Monthly progress rept. no. 19, 15 Feb-15 Mar 1954	10	ARF-M034-0 (ARFM0340)	AMC-AF (AMCAF)	AF 33(616)-220 (AF33616220)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 APR 1954. Other requests shall be referred to Air Materiel Command, Wright-Patterson AFB, OH 45433.	U - Unclassified
Ammunition Belt Link And Feeder For 30mm Automatic Gun, T121	AD0028999	ARMOUR RESEARCH FOUNDATION CHICAGO IL	WINTERMOYER, E.M.	4/9/1954		11		SA (SA)	DA11 (DA11), 022ORD1291 (022ORD1291)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 09 APR 1954. Other requests shall be referred to Research and Development Project Control, Springfield Armory, Springfield, MA.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation And Evaluation Of Tank Influence Signature For Use In Anti-tank Mine Fuzes	AD0029041	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Miller, H. C.	8/31/1953	Monthly progress rept. no. 6, 22 Jul-21 Aug 1953	23	ARF-A-039-7 (ARFA0397)	FA (FA)	DA-11-022-ORD-1196 (DA11022ORD1196)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 AUG 1953. Other requests shall be referred to Frankford Arsenal, Philadelphia, Pennsylvania. Document partially illegible.	U - Unclassified
Investigation And Evaluation Of Tank Influence Signature For Use In Anti-tank Mine Fuzes	AD0029042	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Miller, H. C.	10/31/1953	Monthly progress rept. no. 7, 22 Aug-21 Sep 1953	60	ARF-A-039-7 (ARFA0397)	FA (FA)	DA-11-022-ORD-1196 (DA11022ORD1196)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 OCT 1953. Other requests shall be referred to Frankford Arsenal, Philadelphia, PA. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation And Evaluation Of Tank Influence Signature For Use In Anti-tank Mine Fuzes	AD0029043	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Miller, H. C.	12/15/1953	Monthly progress rept. no. 8, 22 Sep-21 Oct 1953	43		FA (FA)	DA-11-022-ORD-1196 (DA11022ORD1196)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 DEC 1953. Other requests shall be referred to Frankford Arsenal, Philadelphia, PA. Document partially illegible.	U - Unclassified
Studies Of The Influence Of Variations Of Blast And Structural Parameters On Blast Damage To Structures	AD0029044	ARMOUR RESEARCH FOUNDATION CHICAGO IL	SEVIN, E., KAGANOVE, J., ZAKER, T.	4/1/1954	Monthly progress rept. no. 18 for Mar 1954	5	ARF-22 (ARF22)	WADC (WADC)	AF 33(616)-163 (AF33616163)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling DoD Organization: Wright Air Development Center, Wright-Patterson AFB, OH 45433.	C - Confidential



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of T131 Rocket Ammunition	AD0029638	ARMOUR RESEARCH FOUNDATION CHICAGO IL	DeBoo, J. H., Pinsky, J.	4/1/1954		55	ARF-50 (ARF50)	OCO (OCO)	DA-11-022-ORD-1308 (DA11022ORD1308)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 APR 1954. Other requests shall be referred to Office of Chief of Ordnance Research and Development Service, Rocket Development Branch, Washington, DC.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Revolver-type Automatic Aircraft Guns	AD0029771	ARMOUR RESEARCH FOUNDATION CHICAGO IL	WASSEL, E. S., WINTERMOYER, E. M.	2/9/1954		31	ARF-K038-3 (ARFK0383)	SA (SA)	DA-11-022-ORD-824 (DA11022ORD824)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 09 FEB 1954. Other requests shall be referred to Springfield Armory, ATTN: Research and Development Project Control, Springfield, MA.	U - Unclassified
Design And Development Of A 38mm Rocket And Launcher	AD0029772	ARMOUR RESEARCH FOUNDATION CHICAGO IL	CRAMER, W. F., PINSKY, J.	3/10/1954		54	ARF-M036-5 (ARFM0365)	OCO (OCO)	DA-11-022-ORD-892 (DA11022ORD892)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 10 MAR 1954. Other requests shall be referred to Office of the Chief of Ordnance, Washington, DC 20310.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Single Shot And Repeating 2.75 In Recoilless Rifles To Be Mounted On Aircraft	AD0029798	ARMOUR RESEARCH FOUNDATION CHICAGO IL	REAM, JOSEPH T., NORDHAUS, JOHN P.	3/17/1954		33	ARF-L027-5 (ARFL0275)	PTA (PTA)	DA-11-022-ORD-865 (DA11022ORD865)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 17 MAR 1954. Other requests shall be referred to Picatinny Arsenal, Dover, NJ.	U - Unclassified
Pilot Production Of Promising Elevated Temperature Titanium-base Alloys	AD0029800	ARMOUR RESEARCH FOUNDATION CHICAGO IL	TURNER, D. H., MCPHERSON, D. J.	3/31/1954	Progress rept. no. 11, 1-31 Mar 1954	4		WADC (WADC)	AF 33(616)-2060 (AF336162060)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 MAR 1954. Other requests shall be referred to Wright Air Development Center, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research And Development Of New Design Method For Power Transformers	AD0029874	ARMOUR RESEARCH FOUNDATION CHICAGO IL	GARBARINO, HAROLD L.	2/28/1953	Final rept. 15 Mar 1951-28 Feb 1953	344	ARF-E-017-0 (ARFE0170)	SCEL (SCEL)	DA-36-039-SC-5519 (DA36039SC5519)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 FEB 1953. Other requests shall be referred to Signal Corps Engineering Laboratories, Fort Monmouth, NJ. Document partially illegible.	U - Unclassified
Development Of Single Shot And Repeating 2.75 In. Recoilless Rifles To Be Mounted On Aircraft	AD0030072	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Fisher, Robert, Nordhaus, John P.	12/1/1953	Technical rept.	20	TR-18 (TR18)	FA (FA)	DA-11-022-ORD-865 (DA11022ORD865)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 23 FEB 1954. Other requests shall be referred to Frankford Arsenal, Philadelphia, PA.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Qualification Test Methods For Gear Lubricants	AD0030074	ARMOUR RESEARCH FOUNDATION CHICAGO IL	BARTON, H. R.	7/27/1953	Progress rept. 15 Mar 1953-15 Jul 1953	40		OCO (OCO)	DA-11-022-ORD-905 (DA11022ORD905)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 JUL 1953. Other requests shall be referred to Office of the Chief of Ordnance, Washington, DC.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Three-dimensional Shock Tube	AD0030232	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Dickens, R. G., Cushing, V. J.	4/26/1954	Monthly progress rept. 15 Mar-15 Apr 1954	11		AMC-AF (AMCAF)	AF33(616)-220 (AF33616220)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 APR 1954. Other requests shall be referred to Air Installations Division, ATTN: MCHIXDS, Air Materiel Command, Wright-Patterson AFB, OH.	U - Unclassified
Development Of Transformation Data For Special Titanium Alloys	AD0030233	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Goldenstein, A. W., Rostoker, W.	3/1/1954	Letter rept. 1-31 Mar 1954	4		WA (WA)	DA-11-022-ORD-1292 (DA11022ORD1292)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1954. Other requests shall be referred to Watertown Arsenal, Watertown, Massachusetts.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Study Of Effects Of Alloying Elements Of The Weldability Of Titanium Sheet	AD0030313	ARMOUR RESEARCH FOUNDATION CHICAGO IL	MEYER, H. M., PARKS, JOHN M.	5/6/1953	Quarterly rept. no. 2, 15 Sep 1952-15 Jan 1953	50	B-042-0 (B0420)	WADC (WADC)	AF 33(616)-206 (AF33616206)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 06 MAY 1953. Other requests shall be referred to Wright Air Development Center, ATTN: WCUKC, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Study Of Effects Of Alloying Elements On The Weldability Of Titanium Sheet	AD0030314	ARMOUR RESEARCH FOUNDATION CHICAGO IL	MEYER, H. M., PARKS, JOHN M.	5/11/1953	Quarterly rept. no. 3	163		WADC (WADC)	AF 33(616)-206 (AF33616206)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 11 MAY 1953. Other requests shall be referred to Wright Air Development Center, ATTN: WCUKC, Wright-Patterson AFB, OH 45433.	U - Unclassified
Analysis Of Atomic Weapons Effects Upon Army Ground Operations Equipment. Vol. Ii. Effects Of Thermal Radiation	AD0032006	RESEARCH ANALYSIS CORP MCLEAN VA	Clark,Dorothy Kneeland	12/1/1953		1	TM ORO-T-224 (TMOROT224)		AF 33-038-9761 (AF330389761)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Application Of Mk 35 Power Control System To Armour Research Foundation Pilot Aa Mount	AD0032730	GENERAL ELECTRIC CO SCHENECTADY NY	BUNKE,EDWARD W.D.	12/1/1953		1				C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Design And Development Of A 38mm Rocket And A 38mm Launcher</b>	AD0032985	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	CRAMER,W.F., PINSKY,J.	5/13/1954		1			DA11 022ORD892 (DA11022ORD892)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Application Of Mk 35 Power Control System To Armour Research Foundation Pilot Aa Mount</b>	AD0032993	GENERAL ELECTRIC CO SCHENECTADY NY	BUNKE,EDWARD W.D.	10/1/1953		1			DA30 115ORD492 (DA30115ORD492)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Development Of T131 Rocket Ammunition</b>	AD0033082	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	DEBOC,J.H., PINSKY,J.	4/29/1954		24			DA11 022ORD1308 (DA11022ORD1308)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Methods For Field Detection Of Proteins And Bacteria</b>	AD0038688	ARMOUR RESEARCH FOUNDATION CHICAGO IL	EHRlich, RICHARD, THORP, CLARK E.	3/23/1953	Literature survey rept. for 1942-1953	87	ARF-1 (ARF1)	ABL/MD (ABLMD)	DA-18-064-CML-2106 (DA18064CML2106)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Sep 1953. Other requests shall be referred to Army Biological Labs., Frederick, MD., Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Application Of Mk 35 Power Control System To Armour Research Foundation Pilot Aa Mount	AD0040598	GENERAL ELECTRIC CO SCHENECTADY NY	BUNKE,EDWARD W.D.	7/1/1954		1			DA30115ORD492 (DA30115ORD492)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Catalytic Reactions In Nitroguanidine Production	AD0052481	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Riesz, Charles H.	1/12/1955	Quarterly rept. no. 1, 1 Oct-31 Dec 54	28		PA (PA)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; specific authority; 27 Apr 2000. Other requests shall be referred to Commander, Picatinny Arsenal, ATTN: SARPA-TS-S, Dover, NJ 07801.	U - Unclassified
Adaptation Of Partially Combustible Cartridge Cases To The 105mm Howitzer,	AD0052482	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Bakaler ,A. J., Smith,R. E.	2/1/1955		1			DA 11-022-ORD-1688 (DA11022ORD1688)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Design And Development Of A 38mm Rocket,	AD0052483	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Cramer ,W. F., Pinsky,J.	1/4/1955		7	6 (6), 29 (29)		DAI 11-022-ord(P)-4 (DAI11022ordP4)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>37mm Automatic Guns, T172 And T172e1</b>	AD0052484	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rosenblum, R. A., Carey, N. W.	1/10/1955	Progress rept. no. 29 for Nov 1954	34		USACE/IL (USACEIL)	DA-11-022-ORD-1624 (DA11022ORD1624)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 10 JAN 1955. Other requests shall be referred to Chicago Ordnance District, IL.	U - Unclassified
<b>37mm Automatic Guns, T172 And T172e1.</b>	AD0052485	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Rosenblum ,R. A., Carey,N. W.	11/24/1954	Progress rept. no. 28 for Oct 54,	16			DA 11-022-ORD-1624 (DA11022ORD1624)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Development Of 105mm Battalion Antitank Weapons And Interior Ballistics For The Design Of Recoilless Rifles</b>	AD0064646	ARMOUR RESEARCH FOUNDATION CHICAGO IL	LEVIN, SAMUEL, PRICE, C. F.	4/6/1955	Final summary phase rept. no. 1	97		DA (DA)	DA-11-022-ORD-1157 (DA11022ORD1157)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 06 APR 1955. Other requests shall be referred to Chicago Ordnance District, IL.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Development Of 2131 Rocket Ammunition,</b>	AD0064872	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	DeBoo ,J. H., Pinsky,J.	4/4/1955		4	63 (63)		DA-11-022-ORD-1308 (DA11022ORD1308)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Adaptation Of 70mm Rocket Launcher To T69 Skysweeper Aa Mount</b>	AD0064945	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	ROSENBLUM,R.A. , CAREY,N.W.	5/12/1955	Progress rept. no. 26 for Apr 55,	12			DA11 022ORD1191 (DA11022ORD1191)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Development Of 105mm Battalion Antitank Weapons And Interior Ballistics For The Design Of Recoilless Rifles</b>	AD0064948	ARMOUR RESEARCH FOUNDATION CHICAGO IL	REAM, J. T., PRICE, C. F.	5/31/1955	Monthly progress rept. no. 27 for Apr 1955	32		DA (DA)	DA-11-022-ORD-1157 (DA11022ORD1157)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 MAY 1955. Other requests shall be referred to Chicago Ordnance District, IL.	U - Unclassified
<b>37mm Automatic Gun, T172e1</b>	AD0064949	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		5/31/1955	Progress rept. no. 34.	19			DA11 022ORD1624 (DA11022ORD1624)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Aircraft Recoilless Feeder, 65 Mm, T26	AD0069304	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Keiser, R. D., Kamp, E. A.	6/23/1948	Final rept.	132	ARF-90-371D (ARF90371D)	OCO (OCO)	W-11-022-ORD-11053 (W11022ORD11053)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 23 JUN 1948. Other requests shall be referred to Office of the Chief of Ordnance, Department of the Army, Washington, DC 20310.	U - Unclassified
Adaptation Of 70mm Rocket Launcher To T69 Skysweeper Aa Mount.	AD0071055	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Rosenblum ,R. A.	6/28/1955	Progress rept. no. 28 for Jun 55,	13			DA-11-022-ORD-1191 (DA11022ORD1191)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Development Of Qualification Test Methods For Gear Lubricants.	AD0081990	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Powell ,D. L., Barton,H. R.	9/1/1955	Progress rept. no. 34 for Sep 55,	13			DA-11-022-ORD-905 (DA11022ORD905)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
The Vortex Tube As A True Free Air Thermometer. Symposium Held May 24, 1955 At Armour Research Foundation, Chicago, Illinois	AD0090398	MILGO ELECTRONIC CORP MIAMI FLA		5/24/1955		1			AF08 606 1085 (AF086061085)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Development Of Influence Fuzes For Antitank Mines.	AD0090907	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Miller,H. C.	11/12/1954	Monthly progress rept. no. 7, 1-31 Jul 54,	2			DA-11-022-ORD-1550 (DA11022ORD1550)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Research And Development On Liquid Propellant Guns.	AD0090908	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Hansen ,L. J., Pinsky,J.	3/25/1955	Bimonthly rept. no. 22, Dec 54-Jan 55,	15			NOrd-12883 (NOrd12883)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Photoelastic Comparison Of Stresses And Strains Associated With Different Perforation Shapes In Rocket Propellants	AD0091790	THIOKOL CHEMICAL CORP HUNTSVILLE AL	Lake, R. L., Durelli, A. J.	3/1/1956	Final rept.	87	6-56 (656)	MICOM (MICOM)	DA-01-021-ORD-1 (DA01021ORD1), DA-01-021-ORD-76 (DA01021ORD76)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1956. Other requests shall be referred to Army Missile Command, Redstone Library, Attn: AMSMI-RD-CS, Redstone Arsenal, AL 35898-5240.	U - Unclassified
Development Of Revolver-type Automatic Aircraft Guns	AD0091794	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	WASSEL,E.S., WINTERMOYER,E .M.	5/16/1955	Rept. no. 33 for Apr 55	32			DA11 022ORD824 (DA11022ORD824)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Production Of Homogeneous Titanium Alloy Standards</b>	AD0091795	ARMOUR RESEARCH FOUNDATION CHICAGO IL	DEBOO, J. H., LEVINSON, D. W.	4/18/1956	Progress rept. no. 3	9	ARF-B-085 (ARFB085)	WADC (WADC)	AF 33(616)-3098 (AF336163098)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Wright Air Development Center, Wright-Patterson AFB, OH 45433, 18 APR 1956, or higher DoD authority.	U - Unclassified
<b>Proximity Scorer Planar Model</b>	AD0092172	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	HOEHN,A.J.	5/12/1955	Bimonthly interim engineering report - 7, 22 Feb-22 Apr 55.	7			AF33 600 24529 (AF3360024529)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Study On Phase Relationships In Magnesium-lithium-aluminum Alloys</b>	AD0092180	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Elliott, R. P., Rostoker, W.	4/9/1956	Interim technical rept. 24 Aug 1955-24 Feb 1956	44		FA (FA)	DA-11-022-ORD-1972 (DA11022ORD1972)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 09 APR 1956. Other requests shall be referred to Frankford Arsenal, Philadelphia, PA.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Evaluation Of High Strength Weldable Titanium-base Alloys	AD0092586	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Lillie, C. R.	12/1/1955	Final rept. 1 Jan-30 Nov 1954	63	WADC-TR-54-547 (WADCTR54547)	TR-54-547 (TR54547), WADC (WADC)	AF 33(616)-2321 (AF336162321)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1955. Other requests shall be referred to Wright Air Development Center, Materials Lab., Wright-Patterson AFB, OH 45433.	U - Unclassified
The Effects Of Surface Roughness	AD0093225	IIT RESEARCH INST CHICAGO IL	NAGUMO, G., WEIDERMANN, A.W.	12/1/1955		1	DASA-990 (DASA990)	990 (990)	AF33 616 2644 (AF336162644)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Study And Investigation Of A Tactical Air-to-ground Loudspeaker System	AD0094119	ARMOUR RESEARCH FOUNDATION CHICAGO IL	BISHOP, D. E., BENSON, R. W.	11/15/1955	Final rept.	74		WADC (WADC)	AF 33(616)-333 (AF33616333)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 NOV 1955. Other requests shall be referred to Wright Air Development Center, ATTN: WCLNE-3, Wright-Patterson AFB, OH 45433.	U - Unclassified
Report Of Consultant's Meeting On A Study Of The Feasibility Of Mine Detection By Nuclear Methods (held On) September 30, 1955, Armour Research Foundation, Chicago, Illinois.	AD0095722	STANFORD RESEARCH INST MENLO PARK CALIF		10/19/1955		6			DA 44-009-eng-2436 (DA44009eng2436)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Study And Investigation Of A Tactical Air-to-ground Loudspeaker System	AD0101625	ARMOUR RESEARCH FOUNDATION CHICAGO IL	KARPLUS, H. B., BENSON, R. W.	5/1/1955	Monthly progress rept. no. 29	7		WADC (WADC)	AF 33(616)-333 (AF33616333)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 JUN 1955. Other requests shall be referred to Wright Air Development Center, ATTN: WCLNE-3, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Research On Infrared Photosensitive Semiconductors</b>	AD0102361	ARMOUR RESEARCH FOUNDATION CHICAGO IL	THOMPkins, EDWIN H., SUSMAN, SHERMAN	4/1/1956	Letter rept. no. 7, 1-30 Apr 1956	6	ARF-C-080 (ARFC080)	AERDL (AERDL)	DA-44-009-ENG-2706 (DA44009ENG2706)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; APR 1956. Other requests shall be referred to Army Engineer Research and Development Laboratories, Fort Belvoir, VA 22060.	U - Unclassified
<b>Electronic Component Parts Research For 500 Deg C Operation</b>	AD0102626	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Bergslien, R. M., Hamre, H. G., Noble, R. D., Meyer, A. U.	6/30/1956	Scientific rept. no. 1, 1 Apr-30 Jun 1956	29		WADC (WADC)	AF 33(616)-3549 (AF336163549)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 JUN 1956. Other requests shall be referred to Wright Air Development Center, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Cobalt-base Alloys	AD0106937	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	MCANDREW,J.B., LEVINSON,D.W.	8/14/1956	Bimonthly progress rept. no. 2, 26 May-25 Jul 56.	1			NOas-56-103 (NOas56103)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Adaptation Of Partially Combustible Cartridge Cases To The 105mm Howitzer	AD0107191	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Herkes, D. J., Smith, R. E.	8/1/1956	Rept. no. 23, 1-31 Aug 1956	16	ARF-K062 (ARFK062)	OCO (OCO)	DA-11-022-ORD-1688 (DA11022ORD1688)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1956. Other requests shall be referred to Office of the Chief of Ordnance, Department of the Army, Washington, DC 20310.	U - Unclassified
Symposium On Surface Treatment Of Titanium, Held At Armour Research Foundation, Chicago, Illinois, On 28 January 1953. Summary,	AD0108702	WATERTOWN ARSENAL LABS MASS	Jacobson,M. M.	1/1/1953		13				C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Design Parameters For Special Warheads For Guided Missiles</b>	AD0109200	ARMOUR RESEARCH FOUNDATION CHICAGO IL	DEUSTER, RALPH W., KIRKLAND, J.T.	4/6/1955	Semiannual rept. no. 1	93	R-555-871-SR-1Z (R555871SR1Z)	WADC (WADC)	AF 33(616)-2568 (AF336162568)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Controlled: all requests to Air Force Armament Center, Eglin AFB, Fla.	C - Confidential
<b>Study Of Effects Of Alloying Elements On The Weldability Of Titanium Sheet</b>	AD0118135	ARMOUR RESEARCH FOUNDATION CHICAGO IL	RUDY, JOHN F., MCANDREW, JOSEPH B., SCHWARTZBART, HARRY	3/1/1957	Rept. for 7 Feb 1955-31 Aug 1956	152	WADC-TR-53-230-PT-3 (WADCTR53230PT3)	TR-53-230-PT-3 (TR53230PT3), WADC (WADC)	AF 33(616)-206 (AF33616206)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; Mar 1957. Other requests shall be referred to Wright Air Development Center, Wright-Patterson AFB OH 45433.	U - Unclassified
<b>A Study Of Crystal Oscillator Circuits.</b>	AD0127858	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Gruen ,H. E., Plait ,A. O.	2/15/1957	Quarterly progress rept. no. 7, 15 Nov 56-15 Feb 57,	57			DA-36-039-sc-64609 (DA36039sc64609)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Phase Relationships In Binary Magnesium Alloys.</b>	AD0127859	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Elliott ,Rodney P., Koeneman ,John K., Metcalfe ,Arthur G.	4/15/1957	Interim technical rept. no. 2, 24 Aug 56-24 Feb 57,	11			DA-11-022-ORD-1975 (DA11022ORD1975)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research Directed To The Development Of Conducting Materials For Field Wires And Cables.	AD0128435	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Moreen,R. I., Lubker,R. A., Parks,J. M.	7/28/1948	Final rept.,	64			W36-039-sc-32042 (W36039sc32042)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Development Of 70mm Rocket Launcher On T69 Skysweeper Aa Mount	AD0128437	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	CHRISTENSEN,K.K., CAREY,N.W.	3/1/1957	Rept. no. 9 for period Mar 57,	2			DA-11-022-505-ORD-2166 (DA11022505ORD2166)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
70mm Aa Rocket Launcher And Mount, T160	AD0128446	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NUTTING,R.G., CARREY,N.W.	11/1/1956	Final rept. 28 Jun 52-1 Nov 56,	308			DA-11-022-ORD-967 (DA11022ORD967)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Basic Loading On M.i.t. Multi-story Structures In The Regular Reflection Region	AD0131881	IIT RESEARCH INST CHICAGO IL	WIEDERMANN, A., SCHIFFMAN, T.H.	3/22/1956		1			AF33 616 2644 (AF336162644)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Blast Effects On Storage Tank Type Structures</b>	AD0132573	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Nagumo, G., Swatosh, J., Schiffman, T., Wiedermann, A.	9/30/1956	Final test rept. no. 9	101	ARF-D087 (ARFD087), 52 (52), DASA-1031 (DASA1031)	1031 (1031), DTRA/FB (DTRAFB)	AF 33(616)-2644 (AF336162644)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 SEP 1956. Other requests shall be referred to Defense Threat Reduction Agency, 8725 John J. Kingman Road, Fort Belvoir, VA 22060-6201.	U - Unclassified
<b>Balls Of Fire</b>	AD0134028	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Raisen, Elliott, Katz, Sidney	5/27/1957	Quarterly status rept. no. 12, 1 Feb-30 Apr 1957	38		WADC (WADC)	AF 33(616)-3596 (AF336163596)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling DoD Organization: Wright Air Development Center, Wright-Patterson AFB, OH 45433.	C - Confidential
<b>Development Of Revolver-type Automatic Aircraft Guns</b>	AD0134175	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	WASSEL,E.S., WINTERMOYER,E .M.	9/1/1956	Monthly progress rept. no. 50,	1			DA-11-022-ORD-824 (DA11022ORD824)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Revolver-type Automatic Aircraft Guns	AD0134176	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	WASSEL,E.S., WINTERMOYER,E .M.	10/1/1956	Monthly progress rept. no. 51,	1			DA-11-022-ORD-824 (DA11022ORD824)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Development Of Revolver-type Automatic Aircraft Guns	AD0134177	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	WASSEL,E.S., WINTERMOYER,E .M.	11/1/1956	Monthly progress rept. no. 52,	1			DA-11-022-ORD-824 (DA11022ORD824)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Development Of Revolver-type Automatic Aircraft Guns	AD0134178	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	WASSEL,E.S., WINTERMOYER,E .M.	12/1/1956	Monthly progress rept. no. 53,	1			DA-11-022-ORD-824 (DA11022ORD824)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Research On Photo-conductive Materials For Use In High Intensity Nuclear Radiation Measurements.	AD0138881	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		9/10/1956	Quarterly rept. no. 1	24			AF33(616)-3762 (AF336163762)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Available only by requests to WCRTM-1.	U - Unclassified
Compendium Of Air Blast Effects. Volume Ii. Loads	AD0139454	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		7/1/1957		1			AF 33(600)-25734 (AF3360025734)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Analysis Of Selected Dissemination And Design Problems.	AD0146544	ARMOUR RESEARCH FOUNDATION CHICAGO IL	SMITH, FRED B.	10/1/1957		1	ETF 100 4 T11 (ETF1004T11)		DA18 108CML5507 (DA18108CML5507)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't Agencies and Their Contractors;Specific Authority;Oct 1957. Other requests shall be referred to: Hq Dept of the Army, Washington, D.C.	U - Unclassified
Evaluation At Temperatures Up To 600 Deg. F. Of Seven Types Of Strain Gages Made Of Karma And Armour Research Foundation Alloys A And B	AD0149148	NAVAL AIR ENGINEERING CENTER PHILADELPHIA PA AERONAUTICAL STRUCTURES LAB	SHRAGER,JACK J.	9/23/1957		1	1011 P2 (1011P2)			C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Investigation Of The Structure Of Neutron Irradiated Lithium Fluoride,	AD0151752	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Bragg,Robert H.	1/1/1957		24				C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation Of Gun Heating And Ammunition Cook-off In The 20-mm Gun, M61	AD0208210	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Vodvarka,F. J.	11/30/1958	Rept. no. 3, 1-30 Nov 58,	1			DA11 022 504ORD2883 (DA11022504ORD2883)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Investigation Of Gun Heating And Ammunition Cook-off In The 20-mm Gun, M61	AD0208441	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Vodvarka,F. J.	10/31/1958	Rept. no. 2, 1-31 Oct 58,	4			DA11-022-504ORD2883 (DA11022504ORD2883)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Investigation Of Gun Heating And Ammunition Cook-off In The 20-mm Gun, M61	AD0210274	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Vodvarka,F. J.	9/30/1958	Rept. no. 1, 19 Aug-30 Sep 58,	7			DA11-022-504ORD2883 (DA11022504ORD2883)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Investigation Of Gun Heating And Ammunition Cook-off In The 20-mm Gun, M61	AD0211121	ARMOUR RESEARCH FOUNDATION CHICAGO IL	VODVARKA,F.J.	1/31/1959	Rept. no. 5, 1-31 Jan 59,	2			DA11 022 504ORD2883 (DA11022504ORD2883)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Investigation Of Gun Heating And Ammunition Cook-off In The 20-mm Gun, M61	AD0212541	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	VODVARKA,F.J.	2/28/1959	Rept. no. 6, 1-28 Feb 59,	4			DA-11-022-504-ORD-2883 (DA11022504ORD2883)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Study On Magnetic Tape Recording And Reproducing Techniques For Video Information</b>	AD0212542	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	GRANATH,J.A.	2/15/1959	Quarterly engineering rept. no. 3, 1 Nov 58-31 Jan 59,	1			AF 33(616)-5638 (AF336165638)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Development Of Detonators Without Primary Explosives.</b>	AD0212543	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	WEBER,J.P.	1/13/1959	Monthly progress rept. no. 4, 1-31 Dec 58,	5			DA-11-022-501-ORD-2892 (DA11022501ORD2892)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Improvement Of High Strenght Aluminum Castings</b>	AD0212544	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	LILLIE,C.R., SIMCOE,CHARLES R.	3/10/1959	Monthly progress rept. no. 5, 1-31 Jan 59,	3			DA-11-022-507-ORD-2890 (DA11022507ORD2890)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Combustion Of Low Volatile Fuels</b>	AD0212545	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	KAMO,RAY, MIESSE,C.C.	12/1/1958	Quarterly progress rept. no. 1, 15 Aug-15 Nov 58,	17			NObs-72357 (NObs72357)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>A Study Of Stress-induced Delayed Failure In High-strength Brasses</b>	AD0212546	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	TURNER,LEE E.	1/26/1959	Progress rept. no. 1, 25 Sep-24 Dec 58,	10			NObs-77020 (NObs77020)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Evaluation Of Silicon Metallic Rectifiers</b>	AD0212547	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	GEE,G.E.	12/31/1958	Interim engineering rept. no. 6, 1 Oct-31 Dec 58,	16			NObs-72332 (NObs72332)	E - 04 - DOD ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Methods For Dynamically Balancing Naval Machinery In Place. Experiments Performed With International Research And Development Portable Balancing Equipment.	AD0212549	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		8/1/1958	Final rept. Pt-2	27			NObs-72241 (NObs72241)	E - 04 - DOD ONLY		U - Unclassified
Methods For Dynamically Balancing Naval Machinery In Place. Experiments Performed With The Schenck Field Balancing Equipment	AD0212651	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		8/1/1958	Final rept. Pt. 4	8			NObs-72241 (NObs72241)	E - 04 - DOD ONLY		U - Unclassified
Combustion Of Low Volatile Fuels	AD0212652	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	KAMO,R., MIESSE,C.C.	2/28/1959	Quarterly progress rept. no. 2, 15 Nov 58-14 Feb 59,	23			NObs-72357 (NObs72357)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution: NO FORN, Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Magnesium-lithium-aluminum Alloys For Armored Vehicle Application	AD0212807	ARMOUR RESEARCH FOUNDATION CHICAGO IL	GOLDENSTEIN, ADOLPH W., METCALFE, ARTHUR G.	1/14/1959	Final rept. 22 Nov 1957-21 Nov 1958	61		FA (FA)	DA-11-022-ORD-2621 (DA11022ORD2621)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 14 JAN 1959. Other requests shall be referred to Frankford Arsenal, Philadelphia, PA.	U - Unclassified
Investigation Of Crystallographic Properties Of Primary Explosives	AD0212808	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	ERIKSON, TED A., HINCH, RALPH J., JR.	2/20/1959	Quarterly rept. no. 3, 1 Nov 58-31 Jan 59,	13			DA-M-022-501-ORD-2731 (DAM022501ORD2731)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Mechanical Shock Characteristics Of The Armour High Impact Machine For Electronic Devices (armour Research Foundation Machine =1)	AD0213011	NAVAL RESEARCH LAB WASHINGTON D C	VIGNESS, IRWIN	3/7/1945		21	NRL-2485 (NRL2485)			C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Improvement Of High Strength Aluminum Castings	AD0213965	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Lillie, C. Robert, Simcoe, Charles R.	3/23/1959	Monthly progress rept. no. 6, 1-28 Feb 59,	9			DA-11-022-ORD-2890 (DA11022ORD2890)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Availability: Document partially illegible.	U - Unclassified
Energetics Of Crack Formation And Propagation	AD0213966	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Elliott, Rodney P., Metcalfe, Arthur G.	3/11/1959	Quarterly progress rept. no. 1, 1 Dec 58-28 Feb 59,	9			AF 33(616)-6148 (AF336166148)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Availability: Document partially illegible.	U - Unclassified
Development Of Non-destructive Tests To Predict The Reliability Of Resistors. Part 2.	AD0213967	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Lathan,B. F.	3/1/1959	Quarterly rept. no. 5, 1 Dec 58-28 Feb 59,	14			AF 33(600)-31331 (AF3360031331)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Research In The Measurements And Theory Of Plasmoids And Their Applications To Missiles And Satellite Technology</b>	AD0213968	ARMOUR RESEARCH FOUNDATION CHICAGO IL	DeGeeter, Dale J.	3/13/1959	QUARTERLY REPT. NO. 3, 1 Dec 58-28 Feb 59	40		WADC (WADC)	AF 33(616)-5791 (AF336165791)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific authority; 11 Sep 2000. Other requests shall be referred to Wright Air Development center, Wright-Patterson AFB, OH 45433.	U - Unclassified
<b>Investigation Of Serviceability Criteria For Used Anti-friction Bearings</b>	AD0213969	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Smith, Leon L.	3/1/1959	Interim rept. no. 10, 1 Dec 58-1 Mar 59,	1			AF 33(600)-33605 (AF3360033605)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Availability: Document partially illegible.	U - Unclassified
<b>Electron Tube Vibration Test Procedures</b>	AD0215144	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Goldberg,M. E.	1/22/1959	Interim engineering rept. no. 12, 23 Oct 58-22 Jan 59.	40			AF 33(600)-31879 (AF3360031879)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Improvement Of High Strength Aluminum Castings</b>	AD0215145	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Lillie,C. R., Simcoe,Charles R.	4/21/1959	Monthly progress rept. no. 7, 1-31 Mar 59,	5	ARF-2157-7 (ARF21577)		DA-11-022-507-ORD-2890 (DA11022507ORD2890)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation Of Gun Heating And Ammunition Cook-off In The 20 Mm Gun, M61.	AD0215146	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Vodvarka,F. J.	3/31/1959	Rept. no. 7, 1-31 Mar 59,	3			DA-11-022-504-ORD-2883 (DA11022504ORD2883)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED		U - Unclassified
Investigation Of Methods And Techniques Of Increased Accuracy For Measuring Crystal Units	AD0215147	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Tobinski,H. G.	2/15/1959	Quarterly progress rept. no. 5, 15 Nov 58-15 Feb 59,	7			DA-36-039-sc-74896 (DA36039sc74896)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Develop And Evaluate High Temperature Dielectric For Rf Coaxial Cable	AD0215148	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Noble,R. D., Humphrey,R. A.	2/9/1959	Quarterly rept. no. 1, 1 Nov 58-1 Feb 59,	13			NObs-77032 (NObs77032)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED		U - Unclassified
Radar-beacon System Study	AD0215149	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Kazel,S., Aronson,A.	11/14/1958	Quarterly progress rept. no. 8, 15 Aug-14 Nov 58,	72			DA-36-039-sc-73038 (DA36039sc73038)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Printed-wiring Soldered Electrical Connections	AD0215150	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Koeller,E. H.	10/15/1958	Quarterly progress ret. no. 1, 15 Jul-15 Oct 58,	18			DA-36-039-sc-78167 (DA36039sc78167)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Printed-wiring Soldered Electrical Connections	AD0215208	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	KOELLER,E.H., URBAN,R.L.	1/15/1959	Quarterly progress rept. no. 2, 15 Oct 58-15 Jan 59,	1			DA-36-039-sc-78167 (DA36039sc78167)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Predictions Of The Response Of A Deckhouse Structure To Air Blast	AD0216386	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Guillard,Eugene	3/1/1959	Final rept.,	1			Nonr-251100 (Nonr251100)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Evaluation Of Silicon Metallic Rectifiers	AD0216387	ARMOUR RESEARCH FOUNDATION CHICAGO IL	GEE, G.E.	3/31/1959	Interim engineering rept. no. 3, 1 Jan-31 Mar 59,	10			NObs-72444 (NObs72444)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Investigation Of Gun-heating And Ammunition Cook-off In The 20-mm Gun, M61	AD0216388	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Vodvarka,F. J.	4/30/1959	Rept. no. 8, 1-30 Apr 59,	4			DA-11-022-504-ORD-2883 (DA11022504ORD2883)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Determination Of Stresses In Helical Gear Teeth	AD0216389	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	PARKS,VINCENT, MORSE,STANLEY, DURELLI,A.J.	2/28/1959	Final rept. 1 Jul 57-28 Feb 59,	1			NObs-72325 (NObs72325)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Improvement Of Mechanical Properties Of Steel Castings By Press Forging	AD0216419	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	BERRY,J.T., WATMOUGH,T.	5/27/1959	Interim technical rept. no. 5, 1 Feb-30 Apr 59,	24	ARF-2141-20 (ARF214120)		AF 33(600)-36387 (AF3360036387)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Development Of High-temperature Die Materials	AD0216420	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NICHOLS,H., GOUWENS,P.	4/30/1959	Interim technical rept. no. 6, 1 Feb-30 Apr 59,	19	ARF-2132-24 (ARF213224)		AF 33(600)-35914 (AF3360035914)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Analog Study Of Response To Jet Aircraft Vibrations</b>	AD0216711	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	JACOBSON,R.H.	2/1/1959	Interim rept. no. 2,	88	WADC-TN-59-179 (WADCTN59179)	TN-59-179 (TN59179)	AF 33(616)-5033 (AF336165033)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Experimental Altitude Performance Of Jp-4 Fuel And Liquid-oxygen Rocket Engine With An Area Ratio Of 48</b>	AD0216806	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	FORTINI,ANTHONY, HENDRIX,CHARLES D., HUFF,VEARL N.	6/15/1959	Rept. no. 2, 1-31 May 59,	4	ARF-2175-2 (ARF21752)		DA-11-022-505-ORD-3038 (DA11022505ORD3038)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Power Plant Efficiency Enhancement</b>	AD0217407	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	CYORY,E., MIESSE,C.C.	6/1/1959	Final technical rept. 10 Jun 58-10 Apr 59,	1	RADC-TR-59-77 (RADCTR5977)	TR-59-77 (TR5977)	AF 30(602)-1911 (AF306021911)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Improvement Of High Strength Aluminum Castings</b>	AD0217441	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	LILLIE,ROBERT C., SIMCOE,CHARLES R.	5/22/1959	Monthly progress rept. no. 8, 1-30 Apr 59,	6	ARF-2157-8 (ARF21578)		DA-11-022-507-ORD-2890 (DA11022507ORD2890)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Develop And Evaluate High Temperature Dielectric For Rf Coaxial Cable</b>	AD0217442	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NOBLE,R.D.	5/11/1959	Quarterly rept. no. 2, 1 Feb-1 May 59,	18	ARF-6040-6 (ARF60406)		NObs-77032 (NObs77032)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED		U - Unclassified
<b>Improved Vanadium-base Alloys</b>	AD0217443	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	RAJALA,B.R., VANTHYNNE,R.J.	4/22/1959	Bimonthly rept. no. 2, 1 Feb-31 Mar 59,	6	ARF-2165-2 (ARF21652)		NOas-59-6050 (NOas596050)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>The Oxidation Of Carbon Monoxide Behind Shock Waves</b>	AD0217444	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	STEINBERG,M.	4/30/1959	Quarterly rept. no. 3, 1 Feb-30 Apr 59,	7	ARF-1136-3 (ARF11363)		AF 33(616)-5906 (AF336165906)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>An Investigation Of Metal-ceramic Composites For High-temperature Applications</b>	AD0217445	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	MC GEE,S.W., READ,R.H., TULLY,T.S.	5/15/1959	Monthly progress rept. no. 1,	6	ARF-2175-1 (ARF21751)		DA-11-022-505-ORD-3038 (DA11022505ORD3038)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Electron Tube Vibration Test Procedures</b>	AD0217446	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	GOLDBERG,M.E.	4/22/1959	Interim engineering rept. no. 13, 23 Jan-22 Apr 59,	23			AF 33(600)-31879 (AF3360031879)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Evaluation Of Silicon Metallic Rectifiers</b>	AD0217447	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	GEE,G.E.	3/31/1959	Interim engineering rept. no. 7, 1 Jan-31 Mar 59,	26			NObs-72332 (NObs72332)	E - 04 - DOD ONLY		U - Unclassified
<b>Research And Development Of Diesel Engine Lubricants</b>	AD0217448	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	DEBOO,J.H., BARTON,H. RUWE	5/7/1959	Interim rept. no. 1,	1			NObs-72426 (NObs72426)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Development Of Bobalt-base Alloys</b>	AD0217539	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	RAUSCH,J.J., SIMCOE,CHARLES R.	5/13/1959	Quarterly rept. no. 1, 15 Mar 58-31 Mar 59,	14	ARF-2131-7 (ARF21317)		NOas-58-136 (NOas58136)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Feasibility Of Predicting Debris Damage To Petroleum Products Storage Tanks	AD0217638	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	SINGER,D.B., SAUER,R.W.	1/1/1959	Final rept.,	22	AFSWP-1076 (AFSWP1076)	1076 (1076)	DA-29-044-XZ-592 (DA29044XZ592)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Debris Damage To Petroleum Products Storage Tanks. Appendix A. Bibliography	AD0217648	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		2/1/1958		1	AFSWP-1076-A (AFSWP1076A)	1076-A (1076A)	DA-29-044-XZ-592 (DA29044XZ592)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
The Energetics Of Crack Formation And Propagation	AD0218444	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	ELLIOTT,RODNEY P.	6/11/1959	Quarterly progress rept. no. 2, 1 Mar-31 May 59,	8	ARF-2167-2 (ARF21672)		AF 33(616)-6148 (AF336166148)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Design And Development Of Miniature Rf Cables And Connectors	AD0218520	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		10/1/1958	Quarterly rept. no. 1, 1 Aug-31 Oct 58.	54			DA-36-039-sc-74956 (DA36039sc74956)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
The Development And Application Of A Theory For The Plastic Deformation Of Cemented Alloys	AD0218528	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	PARIKH,N.M., MCGEE,S.W., FISHER,JAMES I.	6/30/1959	Letter rept. no. 1,	2	ARF-2182-1 (ARF21821)		DA-11-022-505-ORD-3092 (DA11022505ORD3092)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Development Of Detonators Without Primary Explosives.	AD0218551	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	WEBER,JOHN P.	2/12/1959	Monthly rept. no. 5 for period ending Jan 59,	3	ARF-TN-8109-5 (ARFTN81095)		DA-11-022-501-ORD-2892 (DA11022501ORD2892)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Detonators Without Primary Explosives.	AD0218552	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Weber,John P.	2/28/1959	Monthly rept. no. 6 for period ending Feb 59,	3	ARF-TN-8109-6 (ARFTN81096)		DA-11-022-501-ORD-2892 (DA11022501ORD2892)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Development Of Detonators Without Primary Explosives.	AD0218553	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Weber,John P.	3/31/1959	Monthly rept. no. 7 for period ending Mar 59,	3	ARF-TN-8109-7 (ARFTN81097)		DA-11-022-501-ORD-2892 (DA11022501ORD2892)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Development Of Detonators Without Primary Explosives.	AD0218554	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Weber,John P.	4/30/1959	Monthly rept. no. 8 for period ending Apr 59,	3	ARF-TN-8109-8 (ARFTN81098)		DA-11-022-501-ORD-2892 (DA11022501ORD2892)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Oversize Circular Electric Waveguide Components	AD0218883	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	TODD,ALVA C., SAXE,ROBERT E.	1/1/1958		32			AF 33(616)-3973 (AF336163973)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Investigation Of Methods And Techniques Of Increased Accuracy For Measuring Crystal Units	AD0218889	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	TOBINSKI,H.G., VAN SCOYOC,J.N.	5/14/1959	Quarterly progress rept. no. 6, 15 Feb-14 May 59,	12			DA-36-039-sc-74896 (DA36039sc74896)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Electron Tube Vibration Test Procedures	AD0226478	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		9/18/1959	Interim engineering rept. no. 14, 23 Apr-22 Jul 59,	34			AF 33(600)-31879 (AF3360031879)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation Of Serviceability Criteria For Used Anti-friction Bearings	AD0226479	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	SMITH,LEON L.	9/1/1959	Interim rept. no. 12, 1 Jun-1 Sep 59,	4	ARF-D114 (ARFD114)		AF 33(600)-33605 (AF3360033605)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
The Energetics Of Crack Formation And Propagation	AD0226480	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	ELLIOTT,RODNEY P., READ,ROBERT H.	9/16/1959	Quarterly progress rept. no. 3, 1 Jun-31 Aug 59,	8	ARF-2167-3 (ARF21673)		AF 33(616)-6148 (AF336166148)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
The Effect Of A Disperse Phase On The Ductile-brittle Transition Of Body-centered Cubic Metals	AD0227135	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	WEINBERG,ALFRED F., READ,ROBERT H.	8/5/1959	Quarterly rept. no. 1, 1 May-31 Jul 59,	16	ARF-2178-1 (ARF21781)		AF 33(616)-6505 (AF336166505)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Radar-beacon System Study	AD0227477	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	KAZEL,S., ASHBY,A.	5/1/1959	Quarterly progress rept. no. 10, 15 Feb-14 May 59,	74			DA-36-039-sc-73038 (DA36039sc73038)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Incendiary Capsule Firing Flame Thrower Feasibility Study	AD0227495	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NUSBAUM,M.S.	10/22/1959	Bimonthly rept. no. 1, 13 Aug-30 Sep 59,	21	ARF-4202-1 (ARF42021)		DA-18-108-405-cml-487 (DA18108405cml487)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Development Of Integral Powder-gas Drive For The 20-mm Gun T171e3 (m61)	AD0228030	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	GROVER,D.P.	9/1/1959	Final summary rept. 18 Jan 56-31 Jul 59,	1	ARF-R078 (ARFR078)		DA-11-022-ORD-2035 (DA11022ORD2035)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
The Effect Of A Disperse Phase On The Ductile-brittle Transition Of Body-centered Cubic Metals	AD0228039	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	EVANS,P.R.V., READ,ROBERT H.	11/5/1959	Quarterly rept. no. 2, 1 Aug-31 Oct 59,	7	ARF-2178-2 (ARF21782)		AF 33(616)-6506 (AF336166506)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Test Technique Used For The Armour Research Foundation Optical Evaluation Test In Hotshot 2	AD0228125	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AIR FORCE STATION TENN	SHELTON,P.C.	11/1/1959		13	AEDC-TN-59-146 (AEDCTN59146)		AF 40(600)-800 (AF40600800)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Department Of Defense Titanium Sheet-rolling Program. Time Temperature-transformation Diagrams Of The Titanium Sheet-rolling Program Alloys	AD0228307	BATTELLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS INFORMATION CENTER	TANNER,L.E.	10/19/1959		76	DMIC-46G (DMIC46G)		AF 18(600)-1375 (AF186001375)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Develop And Evaluate High Temperature Dielectric For Rf Coaxial Cable	AD0228644	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NOBLE,R.D.	8/14/1959	Quarterly rept. no. 3, 1 May-1 Aug 59,	14			NObs-77032 (NObs77032)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED		U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>A Study Of Stress-induced Delayed Failure In High-strength Brasses</b>	AD0228666	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	TANNER,LEE E., SIMCOE,CHARLES R.	8/14/1959	Quarterly progress rept. no. 3, 25 Mar-24 Jun 59,	22	ARF-2159-3 (ARF21593)		NObs-77020 (NObs77020)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Evaluation Of Silicon Metallic Rectifiers</b>	AD0228670	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	GEE,G.E.	9/30/1959	Quarterly interim engineering rept. n0. 5, 1 Jul-30 Sep 59,	5			NObs-72444 (NObs72444)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Improved Vanadium Alloys</b>	AD0229181	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	RAJALA,B.R., THYNE,R.J.	9/30/1959	Bimonthly rept. no. 5, 1 Aug-30 Sep 59,	14	ARF-2165-5 (ARF21655)		NOAS59 6050C (NOAS596050C)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Ductile Beryllium Alloys</b>	AD0229618	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	CROSSLEY,FRANK A., VAN THYNE,R.J.	11/23/1959	Bimonthly rept. no. 1,	10	ARF-2187-1 (ARF21871)		NOas-60-6036 (NOas606036)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Instrumentation And Measurement Techniques Study</b>	AD0229754	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	TODD,A.C.	10/31/1959	Quarterly progress rept. no. 3, 1 Aug-31 Oct 59,	1	ARF-5112-9 (ARF51129)		DA-36-039-sc-78269 (DA36039sc78269)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Armour Research Foundation Test No. C 123-22. Quality Assurance Test Of Frozen Sm Lot No. 303, 309, 315, Reference	AD0235803	IIT RESEARCH INST CHICAGO IL	MILLER, SOL	9/30/1959		11		CHEMCOR (CHEMCOR)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; 30 Sep 1959. Other requests shall be referred to Chemical Corps, Army Chemical Center, MD.	U - Unclassified
Armour Research Foundation Test No. C 123-25. Particle Size Distribution Of Dry Bg Displaying Over 100 0/0 Recovery Lot X-17 Vs. Control Lot X-25	AD0245597	IIT RESEARCH INST CHICAGO IL	MILLER, SOL	9/30/1960		10		ABL/MD (ABLMD)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; 30 Sep 1960. Other requests shall be referred to Army Biological Labs, Frederick MD.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation Of Single Energy Gap Solar Cell Material	AD0247267	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Robinson, Robert J., Buttrey, John W.	8/31/1960	Final rept. 1 Sep-31 Aug 1960	63	ARF-1155-15 (ARF115515)	USASRDL (USASRDL)	DA-36-039-SC-85247 (DA36039SC85247), ARPA ORDER-8059 (ARPAORDER8059)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 AUG 1960. Other requests shall be referred to Army Signal Research and Development Laboratory, Fort Monmouth, NJ. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation Of Single Energy Gap Solar Cell Material	AD0274136	ARMOUR RESEARCH FOUNDATION CHICAGO IL	ROBINSON, ROBERT J.	11/22/1961	Final rept. 1 Nov 1960-31 Oct 1961	53	ARF-1175-15 (ARF117515)	USASRDL (USASRDL)	DA-36-039-SC-87381 (DA36039SC87381), ARPA ORDER-80-61 (ARPAORDER8061)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 22 NOV 1961. Other requests shall be referred to Army Signal Reserach and Development Laboratory, ATTN: SIGRA/SL-PD, Fort Monmouth, NJ.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Studies Of Application Requirements For Air Vehicle Interconnecting Wiring	AD0274364	ARMOUR RESEARCH FOUNDATION CHICAGO IL		11/15/1961	Final engineering rept. 15 Nov 1960-15 Nov 1961	193		NAVAIRSYSCOM (NAVAIRSYSCOM)	NOW-61-0092-C (NOW610092C)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; 15 DEC 1972. Other requests shall be referred to Commander, Naval Air Systems Command, ATTN: AIR-50174. Washington, DC 20360.	U - Unclassified
Evaluation Of Deep Tunnel Shelters	AD0276484	ARMOUR RESEARCH FOUNDATION CHICAGO IL		11/1/1958	Final rept.	101		OCDM (OCDM)	CD-SR-58-55 (CDSR5855)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; Nov 1958. Other requests shall be referred to Office of Civil Defense and Mobilization, Washington DC.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Bonding Methods And Materials For Resistance Strain Gages November 1958	AD0280642	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rechter, H. L.	3/9/1962		30	NAVAIRMATCEN-ASL-1050-PT-3 (NAVAIRMATCEN ASL1050PT3)	NAMC (NAMC)	N156S-32317 (N156S32317)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 09 MAR 1962. Other requests shall be referred to Naval Air Material Center, Philadelphia, PA 19112.	U - Unclassified
Wave Propagation Under Anomalous Conditions. Measurement Of The Charge Neutralization Rate Between No+ And O2-	AD0297268	ARMOUR RESEARCH FOUNDATION CHICAGO IL	HAALAND, CARSTEN M.	9/15/1962	Quarterly rept. no. 1	18	ARF-1218-4 (ARF12184)	USASRDL (USASRDL)	DA-36-039-SC-90762 (DA36039SC90762)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 SEP 1962. Other requests shall be referred to Army Signal Research and Development Laboratory, Fort Monmouth, NJ.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Study Of Countermeasures Against Radio Communications Systems.</b>	AD0300171	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	SACHS,H.M., MCMANUS,J.E.	1/1/1958	Quarterly progress rept. no. 8, 1 Nov 57-31 Jan 58,	49			DA-36-039-sc-71175 (DA36039sc71175)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
<b>Quarterly Progress Rept. No. 8, 14 March-14 June 1958</b>	AD0300172	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	MERGERIAN,D., FENLON,P.F.	7/3/1958		17			NOas-56-934 (NOas56934)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Adaptation Of Partially Combustible Cartridge Case To The 105-mm Howitzer</b>	AD0300173	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	ABEL,W.A.	6/1/1958	Progress rept. no. 9, 1 May-1 Jun 58,	19			DA-11-022-ORD-2401 (DA11022ORD2401)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Physical Mechanisms Of Infra-red Detectors</b>	AD0300541	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	POHL,ROBERT G., BUTTREY,J.W.	7/1/1958	Quarterly progress rept. no. 6, Monthly progress rept. no. 23, 1 Apr-30 Jun 58.	17			NOrd-16969 (NOrd16969)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Feed System For Vigilante</b>	AD0300611	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NUTTING,R.G., CAREY,N.W.	6/1/1958	Monthly progress rept. no. 10 for Jun 58,	14			DA-30-144-503-ORD-1008 (DA30144503ORD1008)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Balls Of Fire</b>	AD0301022	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Katz, Sidney, Raisen, Elliott	8/14/1958	Quarterly rept. no. 9, 1 May-31 Jul 1958	52	ARF-27 (ARF27)	WADC (WADC)	AF 33(616)-3596 (AF336163596)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling DoD Organization: Wright Air Development Center, Wright-Patterson AFB, OH 45433.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Quarterly Progress Rept. No. 2, 1 May-31 July 1958	AD0301286	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		8/20/1958		18			AF 33(616)-5764 (AF336165764)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Feed System For Vigilante.	AD0301287	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NUTTING,R.G., CAREY,N.W.	7/1/1958	Rept. no. 11 for Jul 58,	14			DA-30-144-503-ORD-1008 (DA30144503ORD1008)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Feed System For Vigilante.	AD0302348	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Nutting,R. G., Carey,N. W.	8/1/1958	Rept. no. 12,	3			DA-30-144-503-ORD-1008 (DA30144503ORD1008)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Research On Potential High Energy Monopropellants.	AD0302349	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Solomon,Irvine J.	9/29/1958	Quarterly rept. no. 2, 15 Jun-15 Sep 58	7	6 (6)		AF 33(616)-5575 (AF336165575)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Quarterly Progress Rept. No. 9, 14 June-14 September 1958	AD0302478	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	MERGERIAN,D., KAPANY,N.S.	10/7/1958		26			NOas-56-934 (NOas56934)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Physical Mechanisms Of Infra-red Detectors	AD0302479	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	POHL,ROBERT G., BUTTREY,J.W.	10/1/1958	Quarterly progress rept. no. 7, 1 Jul-30 Sep 58.	12			NOrd-16969 (NOrd16969)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Feed System For Vigilante	AD0302597	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NUTTING,R.C., CAREY,N.W.	9/1/1958	Monthly progress rept. no. 13 for Sep 58.	17			DA-30-144-503-ORD-1008 (DA30144503ORD1008)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Adaptation Of Partially Combustible Cartridge Cases To The 105-mm Howitzer</b>	AD0302804	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	ABEL,WILLIAM A., REMALY,ROBERT F.	10/16/1958	Rept. no. 11(Final)	1			DA-11-022-ORD-2401 (DA11022ORD2401)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>38mm Aircraft Rocket Weapon (t132 Launcher Development)</b>	AD0302870	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	UGUCCIONI,C., STERN,R.E.	9/1/1958	Final rept.,	1			DAI-11-022-506-ORD(P)-3 (DAI11022506ORDP3)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
	AD0302927	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	BETZ,HOWARD T., PERRINE,EUGENE L.	10/1/1948	Progress rept. no. 2,	6			NObsr-42216 (NObsr42216)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED		C - Confidential
<b>Balls Of Fire</b>	AD0303425	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Katz, Sidney, Raisen, Elliott	11/1/1958	Rept. no. 29 (Final rept.)	223	WADC-TR-58-627 (WADCTR58627)	TR-58-627 (TR58627), WADC (WADC)	AF 33(616)-3596 (AF336163596)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling DoD Organization: Wright Air Development Center, Wright-Patterson AFB, OH 45433.	C - Confidential
<b>Detection Of Field Disturbances And Secondary Radiation Created By High Velocity Objects.</b>	AD0303869	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		11/17/1958	Quarterly progress rept. no. 2, 1 Aug-31 Oct 58.	1			AF 33(616)-5764 (AF336165764)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Feed System For Vigilante</b>	AD0303870	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NUTTING,R.G., CAREY,N.W.	10/1/1958	Monthly progress rept. no. 14,	16			DA-30-144-503-ORD-1008 (DA30144503ORD1008)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Research On Potential High Energy Monopropellants</b>	AD0304355	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	SOLOMON,IRVINE J.	1/16/1959	Quarterly rept. no. 3, 15-Sep-15 Dec 58,	17	ARF-9 (ARF9)		AF 33(616)-5575 (AF336165575)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Feed System For Vigilante</b>	AD0304360	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NUTTING,R.G., CAREY,N.W.	11/1/1958	Monthly progress rept. no. 15,	11			DA-30-144-503-ORD-1008 (DA30144503ORD1008)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Quarterly Progress Rept. No. 10, 14 September-14 December 1958</b>	AD0304492	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	MERGERIAN,D., KAPANY,N.S.	1/13/1959		13			NOas-56-934 (NOas56934)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Spectrum Analysis Of Combustion Products</b>	AD0304629	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	STEINBERG,MARTIN, LIEBERMAN,P.	1/5/1959	Quarterly rept. no. 2, 10 Sep-9 Dec 58,	30	RADC-TN-59-28 (RADCTN5928)	TN-59-28 (TN5928)	AF 30(602)-1883 (AF306021883)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Study Of Temperature-dependent Properties Of Matter</b>	AD0305000	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	JOHNSON,G.L.	12/15/1958	Quarterly rept. no. 1, 30 Aug-30 Nov 58.	7	4 (4)		DA-44-009-eng-3763 (DA44009eng3763)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Feed System For Vigilante</b>	AD0305236	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NUTTING,R.G., CAREY,N.W.	12/1/1958	Monthly progress rept. no. 16 for Dec 58	6			DA-30-144-503-ORD-1008 (DA30144503ORD1008)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation Of Gun Heating And Ammunition Cook-off In The 20-mm Gun, M61	AD0305306	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Vodvarka,F. J.	12/31/1958	Rept. no. 4, 1-31 Dec 58	7			DA-11-022-504-ORD-2883 (DA11022504ORD2883)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Comments Regarding Armour Research Foundation Report No. D143 ' 'evaluation Of An Underwater High Velocity Missile' ' (hydroduct And Hydroductor)	AD0306190	AEROJET-GENERAL CORP AZUSA CALIF	VINEY,R.M.	2/1/1959		1	1556 SPECIAL (1556SPECIAL)			E - 04 - DOD ONLY		C - Confidential
Summary Of The Presentations At The Symposium On Ozone Stabilization, 26-28 February 1957.	AD0306516	TRW INC CLEVELAND OHIO		2/28/1957		1	GM60.2-67 (GM60267), WDD-7-4256 (WDD74256)	7-4256 (74256)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Feed System For Vigilante	AD0309855	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NUTTING,R.G., CAREY,N.W.	7/1/1959	Monthly progress rept. no. 23,	3			DA-30-144-503-ORD-1008 (DA30144503ORD1008)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Infrared Decoy Feasibility Study</b>	AD0309856	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	KATZ,SIDNEY	7/15/1959	Quarterly engineering rept. no. 3, 1 Apr-1 Jul 59.	1	ARF-3139-3 (ARF31393)		AF 33(616)-6129 (AF336166129)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
<b>Optical Properties Of Infrared Materials At Elevated Temperatures</b>	AD0309902	ARMOUR RESEARCH FOUNDATION CHICAGO IL	MERGERIAN, D., KAPANY, N.S.	8/18/1959	Final rept. Jun 56-Jul 59,	1			NOas-56-934 (NOas56934)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Detection Of Field Disturbances And Secondary Radiations Created By High Velocity Objects</b>	AD0312243	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	SOWERS,H.L.	8/29/1959	Quarterly progress rept. no. 5, 1 May-31 Jul 59.	21	ARF-1120-16 (ARF112016)		AF 33(616)-5764 (AF336165764)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Feed System For Vigilante</b>	AD0312437	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		8/1/1959	Monthly progress rept. no. 25, 1-31 Aug 59.	11			DA-30-144-503-ORD-1008 (DA30144503ORD1008)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Study Of Surveillance Data Transmission</b>	AD0313164	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	UNGAR,A.	9/24/1959	Quarterly rept. no. 2, 16 May-15 Aug 59,	1			DA-36-039-sc-78280 (DA36039sc78280)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
<b>Feed System For Vigilante (u)</b>	AD0313418	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NUTTING,R.G., CAREY,N.W.	9/1/1959	Monthly progress rept. no. 24 for Sep 59.	17	ARF-K-136 (ARFK136)		DA-30-144-503-ORD-1008 (DA30144503ORD1008)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Gas Generator Propellant Systems	AD0313419	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	HERSH,CHARLES K., KEITH,JAMES N.	10/29/1959	Quarterly rept. no. 1, 1 Jun-31 Aug 59.	19	ARF-3154-7 (ARF31547)		AF 33(616)-6618 (AF336166618)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Feed System For Vigilante	AD0313818	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	NUTTING,R.G.	10/1/1959	Monthly progress rept. no. 26	8	ARF-8136-26 (ARF813626)		DA-30-144-503-ORD-1008 (DA30144503ORD1008)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Detection Of Field Disturbances And Secondary Radiations Created By High Velocity Objects.	AD0313827	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	SOWERS,H.L., KAPANY,N.S.	11/19/1959	Quarterly progress rept. no. 6, 1 Aug-31 Oct 59,	16	ARF-1120-20 (ARF112020)		AF 33(616)-5764 (AF336165764)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
Spectrum Analysis Of Combustion Products (u)	AD0313887	ARMOUR RESEARCH FOUNDATION CHICAGO IL	BENSON, R.W.	6/30/1959	Quarterly rept. no. 4, 9 Mar-9 Jun 59	1	RADC-TN-59-270 (RADCTN59270)	TN-59-270 (TN59270)	AF 30(602)-1883 (AF306021883)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Superoxides And Ozonates	AD0314386	CALLERY CHEMICAL CO PITTSBURGH PA	Marshall, M. D., Hashman, J. S., Solomon, I. J.	6/15/1959	Quarterly rept. no. 1, 16 Feb-15 Jun 1959	36		USAF (USAF)	AF 33(616)-6382 (AF336166382)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; 15 JUN 1959. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330.	U - Unclassified
Superoxides And Ozonides	AD0314630	CALLERY CHEMICAL CO PITTSBURGH PA	Marshall, M. D., Hashman, J. S., Solomon, I. J.	9/1/1959	Quarterly rept. no. 2, 15 Jun-15 Sep 1959	29		USAF (USAF)	AF 33(616)-6382 (AF336166382)	B - 03 - U.S. GOVT. ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; SEP 1959. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Superoxides And Ozonates</b>	AD0315890	CALLERY CHEMICAL CO PITTSBURGH PA	Marshall, M. D., Hashman, J. S., McElroy, A. D.	12/1/1959	Quarterly rept. no. 3, 15 Sep-15 Dec 1959	18		USAF (USAF)	AF 33(616)-6382 (AF336166382)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; DEC 1959. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330.	U - Unclassified
<b>Superoxides And Ozonides</b>	AD0321312	CALLERY CHEMICAL CO PITTSBURGH PA	Hashman, J. S., McElroy, A. D., Guibert, C. R., Cooper, W. J., Klodowski, H. F., Renforth, J. C., Klein, M. J., Solomon, I. J., Grimm, E. J., Gasner, E. L.	5/31/1960	Quarterly rept. no. 5, 1 Mar-31 May 1960	42		USAF (USAF)	AF 33(616)-6382 (AF336166382), ARPA ORDER-24- 59 (ARPAORDER245 9)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; MAY 1960. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Rocket Boosted Assist For 40-mm Grenade Cartridge	AD0327236	ARMOUR RESEARCH FOUNDATION CHICAGO IL	NUSBAUM, M. S., VOLPE, V. F.	11/15/1961	Monthly letter progress rept. no. 8, 1-31 Oct 1961	23	ARF-4238-8 (ARF42388)	PA (PA)	DA-11-022-501-ORD-3704 (DA11022501ORD3704)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 NOV 1961. Other requests shall be referred to Picatinny Arsenal, Dover, NJ.	U - Unclassified
Feasibility Investigation Of New Forms Of Physical Deception Devices	AD0334345	ARMOUR RESEARCH FOUNDATION CHICAGO IL	LANGER, G.	1/1/1963	Interim engineering rept., 15 Oct 1962-15 Jan 1963	41	ARF-3209-20 (ARF320920)	ASD (ASD)	AF 33(657)-7102 (AF336577102)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling DoD Organization...Aeronautical Systems Division, Navigation and Guidance Laboratory, Wright-Patterson AFB, OH, 45433.	C - Confidential



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Analysis Of Selected Dissemination And Design Problems. Task Iii. Exploitation Of Toxic Cw In Tactical Situations Using Ground-to-ground Munitions</b>	AD0334784	ARMOUR RESEARCH FOUNDATION CHICAGO IL	HORBERG, ARTHUR, SMITH, FRED B.	9/18/1957	Final rept. 18 Feb 1955-31 Aug 1956	94		CHEMCOR (CHEMCOR)	DA-18-108-CML-5507 (DA18108CML5507)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Sep 1957. Other requests shall be referred to Chemical Corps, Army Chemical Center, MD.	U - Unclassified
<b>Hypervelocity Weapon Feasibility Study</b>	AD0335896	IIT RESEARCH INST CHICAGO ILL	Barbarek,L.A.C.	4/1/1963	Final rept., 16 Feb 60-22 Feb 63,	1	ASD-TDR63 5 (ASDTDR635)	TDR63 5 (TDR635)	AF08 635 902 (AF08635902)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Feasibility Investigation Of New Forms Of Physical Deception Devices</b>	AD0335988	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Langer, G.	4/15/1963	Interim engineering rept., 15 Jan-15 Apr 1963,	50	ARF-3209-24 (ARF320924)	ASD (ASD)	AF33-(657)-7102 (AF336577102)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling DoD organization: Aeronautical Systems Div., Wright-Patterson AFB, OH.	C - Confidential
<b>Development Of Flare Rr-96(xy-1)/al High Altitude Studies.</b>	AD0336193	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Raisen, Elliott, Katz, Sidney, Boies, David B.	4/1/1963	Final technical rept., 26 Sep 60-Apr 63,	92	ARF-3189-19 (ARF318919), ASD-TDR-62-857 (ASDTDR62857)	TDR-62-857 (TDR62857), XD (XD)	AF 33(600)-42101 (AF3360042101)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Proceedings Of The Sixth Symposium On Hypervelocity Impact, Volume Iv. Apr 30, May 1-2 63, Cleveland, Ohio	AD0345054	FIRESTONE TIRE AND RUBBER CO AKRON OH		8/1/1963		424		DA (DA)	DA-31-124-ARO-(D)-16 (DA31124AROD16)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Operational and Administrative Use; Aug 1963. Other requests shall be referred to Department of the Army, Attn: Public Affairs Office, Washington, DC, 20330. NOFORN.	S - Secret
Review And Criticism Of The Armour Research Foundation Report On Drag Loading Of Structures In The Precursor Zone.	AD0360116	AMERICAN MACHINE AND FOUNDRY CO CHICAGO ILL		9/14/1956	Final rept.	25	AMF-MR-1021-10 (AMFMR102110)		AF33 616 2457 (AF336162457)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Bulletin Of 4th Meeting Of The Army-navy Solid Propellant Group, Held At The Armour Research Foundation, Illinois Institute Of Technology, Chicago, Illinois, April 19-20, 1948 (addendum).	AD0366347	JOHNS HOPKINS UNIV SILVER SPRING MD SOLID PROPELLANT INFORMATION AGENCY		1/1/1948		42				C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Release or announcement to foreign governments or their nationals is not authorized.	C - Confidential
Development Of Methods For Predicting The Response Of Explosive Material To Impact.	AD0366866	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Napadensky, Hyla S.	3/1/1961	Final rept. Jul 59-Apr 61,	120	AFSWC-TR-61-8 (AFSWCTR618), DASA-1225 (DASA1225)	TR-61-8 (TR618), 1225 (1225)	AF29 601 2133 (AF296012133)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 51 - RESTRICTED DATA	Distribution: Requesters must be authorized to receive CNWDI material as specified by DoD Dir 5210.2(18 Oct 68).	S - Secret
Effects Of Gamma Radiation On Various Chemical And Biological Systems	AD0368180	ILLINOIS INST OF TECH CHICAGO	Mieskuc, Bernard J.	12/1/1965	Final rept. 15 Feb 1963-15 Jul 1964	62	NDL-TR-73 (NDLTR73)	TR-73 (TR73), NDL (NDL)	DA-18-108-AMC-94 (DA18108AMC94)	B - 03 - U.S. GOVT. ONLY	Distribution: USGO: others to Army Ballistic Research Labs, Attn: DRDAR-TSB-S. Aberdeen Proving Ground, MD 21005.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Factors Affecting The Vulnerability Of Atomic Weapons To Fire. Full Scale Tests.	AD0371640	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Takata,Arthur N.	10/1/1957	Final rept. Oct 56-May 57	123	AFSWP-1060 (AFSWP1060)	1060 (1060)	DAI-11-022-501-ORD-(P)-43 (DAI11022501ORDP43)	B - 03 - U.S. GOVT. ONLY, 51 - RESTRICTED DATA	Distribution: USGO: others to Director, Defense Nuclear Agency, Attn: STTI. Washington, DC 20305.	S - Secret
Factors Affecting The Vulnerability Of Atomic Weapons To Fire. Fule Scale Tests Report No. 2	AD0371641	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Takata, A. N., Murphy, W. J.	2/1/1958	Final rept.	51	AFSWP-1066 (AFSWP1066)	1066 (1066), AFSWP (AFSWP)	DA-11-022-501-ORD-2610 (DA11022501ORD2610)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 51 - RESTRICTED DATA	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 30 MAR 2016. Other requests shall be referred to Defense Threat Reduction Agency, 8725 John J. Kingman Road, Fort Belvoir, VA 22060 6201. Restricted Data.	S - Secret
Tests On The Loading And Response Of Railroad Equipment,	AD0372996	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Sevin,Eugene	9/1/1955		96	AEC-WT-725 (AECWT725), WADC-TN-55-422 (WADCTN55422)	WT-725 (WT725), TN-55-422 (TN55422)		B - 03 - U.S. GOVT. ONLY	Distribution: USGO: others to Director, Defense Atomic Support Agency, Washington, D. C. 20301.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Nuclear Weapons Effects Review	AD0373539	GENERAL ELECTRIC CO SANTA BARBARA CA DASA INFORMATION AND ANALYSIS CENTER	McCormac T. A., B. M., Berning, W., Sears, R. .D, Kaplan, K., Wiehle, C. K., Boquist, W. P., Smith, F. T., Dalgarno, A.	3/1/1966		76	DASIAC-R-66-1 (DASIACR661), DASA-1783 (DASA1783)	1783 (1783), DASA (DASA)	DA-49-146-XZ-282 (DA49146XZ282)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 51 - RESTRICTED DATA	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 MAR 2016. Other requests shall be referred to Defense Threat Reduction Agency, 8725 John J. Kingman Road, Fort Belvoir, VA 22060-6201. Restricted Data. Requesters must be authorized to receive CNWDI material as specified by DoD Directive 5210.2 (12 Jan 78).	S - Secret
Design Of Entrance Systems For Personnel Protective Shelters.	AD0374024	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Ahlers ,E. B., Dickerman ,T. S., Loewe ,W. E., Narin ,F., Pohlmann,E.	12/1/1959	Final rept. 1 Jul 58-1 Feb 59,	182			NBy-3163 (NBy3163)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		S - Secret

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Factors Affecting The Vulnerability Of Atomic Weapons To Impact.	AD0374660	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Weber,J. P.	1/1/1959	Final rept. 23 Dec 55-31 Jan 59,	211	AFSWP-1132 (AFSWP1132)	1132 (1132)	DAI-11-022-501-ORD-(P)-43 (DAI11022501ORDP43)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED, 51 - RESTRICTED DATA	Distribution: Controlled: all requests to Director, Defense Atomic Support Agency, Washington, D. C. 20301.	S - Secret
Rare Gas Fluorides Symposium, November 16-17, 1965, lit Research Institute, Chicago, Illinois.	AD0376486	CHEMICAL PROPULSION INFORMATION AGENCY APPLIED PHYSICS LAB JHU SILVER SPRING MD		9/1/1966		118	CPIA Pub-125 (CPIAPub125)		NOW-62-0604 (NOW620604)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: No Foreign without approval of Commander, Naval Air Systems Command, Washington, D. C. 20360. Attn: AIR-330.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Arpa Propellant Contractors' Synthesis Conference Held On 13-15 April 1964 At lit Research Institute, Chicago, Illinois. Volume 2. Classified Presentations	AD0386593	ADVANCED RESEARCH PROJECTS AGENCY ARLINGTON VA		4/1/1964	Conference proceedings	425		ARPA (ARPA)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, X - 57 - EXPORT CONTROL	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; APR 1964. Other requests shall be referred to Defense Advanced Research Projects Agency, 675 North Randolph Street, arlington, VA 22203-2114. This document contains export-controlled technical data.	U - Unclassified
Consulting Services On Titan Ii Operational Base Facility Design.	AD0388521	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		8/13/1960		109				C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: No Foreign without approval of Commander, SAMSO (SMSDI-STINFO) Los Angeles Air Force Station, Calif. 90045.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Improved Cutting Tool Materials	AD0402994	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Holtz, F. C.	3/24/1963	Interim engineering progress rept. 25 Dec 1962-24 Mar 1963	50	ASD-IR-7-714 (ASDIR7714)	IR-7-714 (IR7714), ASD (ASD)	AF 33(657)-8786 (AF336578786)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1963. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH 45433.	U - Unclassified
Research On Chemistry Of O3f2 And O2f2	AD0403087	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Solomon, Irvine J.	4/25/1963	Technical summary rept. no. 3, 1 Jan-31 Mar 1963	18	3227-3 (32273)	DARPA (DARPA)	AF 49(638)-1175 (AF496381175)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 25 APR 1963. Other requests shall be referred to Defense Advanced Research Projects Agency, Washington, DC.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Evaluation Of Chemical-milled Beryllium Wire From The Armour Research Foundation	AD0404235	NAVAL AIR ENGINEERING CENTER LAKEHURST NJ AERONAUTICAL MATERIALS LAB	Soltis, Paul J.	1/24/1963		6	NAEC-AML-1598 (NAECAML1598)	AML-1598 (AML1598), NAEC (NAEC)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 24 JAN 1963. Other requests shall be referred to Naval Air Engineering Center, Philadelphia, PA.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of A 115mm Direct Support Artillery Weapon And Equipment	AD0406068	ROCK ISLAND ARSENAL IL	Coppersmith, J. L., Freymann, E. W.	5/1/1963	Final rept.	67	RIA-63-1783 (RIA631783)	RIA (RIA)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1963. Other requests shall be referred to Army Rock Island Arsenal, Research and Development Division, Design Engineering Branch, Rock Island Arsenal, IL.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Fundamental Study Of Jet Noise Generation And Suppression. Volume 2. Bibliography	AD0407793	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Isakson, Elizabeth, Hounihan, Rose	3/1/1963	Rept. for 1 Apr-31 Dec 1962	66	ASD-TDR-63-326-VOL-2 (ASDTDR63326VOL2)	TDR-63-326-VOL-2 (TDR63326VOL2), ASD (ASD)	AF 33(657)-8405 (AF336578405)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1963. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	U - Unclassified
Evaluation And Improvement Of Radar Beacon Systems	AD0413802	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Dabkowski, J., Feldman, J., Standley, R., Toullos, P.	5/31/1963	Quarterly progress rept. no. 4, 1 Mar-31 May 1963,	63	3 (3)	ERADCOM/NJ (ERADCOMNJ)	DA-36-039-SC-90693 (DA36039SC90693)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 MAY 1963. Other requests shall be referred to Army Electronics Research and Development Command, Fort Monmouth, NJ 07703.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research Activities. Physics Research Division (armor Research Foundation Of Illinois)	AD0435138	IIT RESEARCH INST CHICAGO IL		1/1/1944		36		XD (XD)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1944. Other requests shall be referred to Dept. of Defense, ATTN: Public Affairs Office, Washington, DC 20301.	U - Unclassified
Investigation Of A Fog-inhibiting Film Developed By The Iit Research Institute.	AD0468863	NAVAL AIR ENGINEERING CENTER PHILADELPHIA PA AERONAUTICAL MATERIALS LAB		8/26/1965		2	NAEC-AML-2250 (NAECAML2250)			E - 04 - DOD ONLY	Notice: Release only to Department of Defense Agencies is authorized. Other certified requesters shall obtain release approval from Chief, Bureau of Naval Weapons, Washington, D. C. 20360.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Bulletin Of 4th Meeting Of The Army-navy Solid Propellant Group Held At The Armour Research Foundation Illinois Institute Of Technology, Chicago, Illinois On April 19-20, 1948</b>	AD0472038	JOHNS HOPKINS UNIV LAUREL MD ROCKET PROPELLANT INFORMATION AGENCY		1/1/1948		242		ONR (ONR)	NORD-7386 (NORD7386)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1948. Other requests shall be referred to Office of Naval Research, Arlington, VA 22217., Availability: Document partially illegible.	U - Unclassified
<b>Research And Development Of Plastic Materials For Optics.</b>	AD0472078	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Nielsen,Erik R.	9/3/1948	Quarterly rept. no. 5, 1 Jun-31 Aug 48,	30			W36 039sc33705 (W36039sc33705 )	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified
<b>Research Directed To The Development Of Conducting Materials For Field Wires And Cables.</b>	AD0472290	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		5/15/1947	Progress rept. no. 4, 15 Jan-15 Apr 47.	13			W36 039sc32042 (W36039sc32042 )	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Experimental Studies Of The Effects Of Impact Loading On Plastic-bonded Explosive Materials	AD0472483	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Napadensky, Hyla	4/1/1963	Final rept. 1 Oct 1961-28 Feb 1963	87	DASA-1391 (DASA1391)	1391 (1391), DASA (DASA)	DA-29-044-XZ-885 (DA29044XZ885)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Apr 1963. Other requests shall be referred to Defense Atomic Support Agency, Albuquerque, NM., Availability: Document partially illegible.	U - Unclassified
Comparative Study Of lit Research Institute Experimental Rocket Nozzle Inserts.	AD0474761	ROCKETDYNE CANOGA PARK CALIF	Cordill ,J. D., Fingerhood,C. R.	9/30/1965	Rept. for 10 Jun 64-30 Sep 65,	116	R-6389 (R6389)		DA-04-495-AMC-445(Z) (DA04495AMC445Z)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: No Foreign without approval of Commanding General, Army Missile Command, Redstone Arsenal, Ala. Attn: AMSMI-RKK.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Biochemistry Of Toxic Proteins (dissociation Of Clostridium Botulinum Type A Toxin In Dextran Gel)	AD0490591	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Riesen, W. H., Hawrylewicz, E. J.	12/31/1962	Formal rept. 15 Sep 1960-31 Oct 1962	81		ABL/MD (ABLMD)	DA-18-108-405-CML-928 (DA18108405CML928)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 DEC 1962. Other requests shall be referred to Army Biological Chemical Research and Development Labs., Frederick, MD Center. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation Of Thermistor Bolometer Flakes	AD0491521	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Brophy, J. J.	2/1/1953	Monthly Progress rept., 10 Jan 1953-10 Feb 1953	36		BUORD (BUORD)	NORD-11454 (NORD11454)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; FEB 1953. Other requests shall be referred to Bureau of Naval Ordnance, Washington, DC 20350. Document partially illegible.	U - Unclassified
Aluminum - Beryllium Alloys	AD0491811	ARMOUR RESEARCH FOUNDATION CHICAGO IL		6/24/1949	Rept. no. 22 (Final) 1 Mar-15 Jun 1949	33		BUAER (BUAER)	NOAS-8193 (NOAS8193)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 24 JUN 1949. Other requests shall be referred to Chief, Bureau of Naval Weapons, Washington, DC 20360. Document partially illegible.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Survey Of Electric Power Sources.</b>	AD0493639	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Eadie,G. H.	3/3/1947	Quarterly rept. no. 3, 1 Dec 46-28 Feb 47,	8			W-36-039-sc-32132 (W36039sc32132)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified
<b>Research And Development On Improved Microwave Surfaces.</b>	AD0493643	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Colner,William H., Francis,Howard T.	3/21/1950	Quarterly progress rept. no. 3, 1 Jan-31 Mar 50,	13	ARF-90-720-B-9 (ARF90720B9)		W-36-039-sc-44508 (W36039sc44508)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified
<b>Research And Development Of Counter Measures Recording Equipment, Models, Test Equipment, And Reports.</b>	AD0493644	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Chynoweth,W. R., Tobey,A. R., Miller,H. C.	8/15/1951	Interim engineering rept. 1 Jun-31 Jul 51,	29	ARF90-783A-10 (ARF90783A10)		AF 33(038)-8921 (AF330388921)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified
<b>Design And Development Of Miniature Hermetically Sealed Power Transformers.</b>	AD0495824	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Anderson,W. C., Pollack,M.	2/28/1951	Final rept. 1 Feb 49-28 Feb 51,	211	ARF-90-686E-24 (ARF90686E24)		W-36-039-sc-38221 (W36039sc38221)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research On Consumable Cartridge Cases	AD0495919	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Abel, William A., Nelson, Malcolm B.	3/18/1963	Final rept. 24 Jun 1961-23 Dec 1962	72	ARF-3200-6 (ARF32006)	PA (PA)	DA-11-022-ORD-3954 (DA11022ORD3954)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 18 MAR 1963. Other requests shall be referred to Picatinny Arsenal, Dover, New Jersey.	U - Unclassified
Research And Development Of Plastic Materials For Optics.	AD0496041	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Nielsen,Erik R.	12/3/1948	Quarterly rept. no. 6, 1 Sep-30 Nov 48,	34	ARF-90-517-C-6 (ARF90517C6)		W-36-039-sc-33705 (W36039sc33705)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research Directed Toward The Development Of Acclimatized Silver Halide Film. Cellulose Ethers: Synthesis, Modification And Compatibility Studies. Silver Halide-gelatin Emulsion Coating Of Film Bases.	AD0496042	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Beal,Keith F.	2/15/1950	Quarterly report no. 7, 15 Oct 49-15 Jan 50,	25	ARF-90-594-C-7 (ARF90594C7)		W-36-039-sc-36833 (W36039sc36833)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified
Research Directed Toward The Development Of Acclimatized Silver Halide Film.	AD0496052	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Beal,Keith F.	4/15/1950	Final rept. 15 Apr 49-15 Apr 50,	71	ARF-90-594-C-F (ARF90594CF)		W-36-039-sc-36833 (W36039sc36833)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research And Development Of Counter Measures Recording Equipment, Models, Test Equipment, And Reports. Volume Ii. Photographic Recording.	AD0496178	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Chynoweth,W. R., Tobey,A. R.	3/15/1952	Final Engineering rept. 1 Dec 49-31 Dec 51,	139	ARF-90-783A-13 (ARF90783A13)		AF 33(038)-8921 (AF330388921)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified
Radiation Sensitive Glasses.	AD0496179	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Reiffel,L.	10/15/1952	Quarterly rept. no. 1, 1 Jun-1 Sep 52,	18	ARF-90-1228A-3 (ARF901228A3)		DA-36-039-sc-15528 (DA36039sc15528)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Electric Gun And Power Source</b>	AD0499966	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Pollack, M., Matsch, L. W.	5/1/1947	Technical rept.	294	ARF-15-391-E-3 (ARF15391E3)	ASF (ASF)	W-11-022-ORD-11164 (W11022ORD11164)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1947. Other requests shall be referred to Department of the Army, Attn: Public Affairs Office, Washington, DC 20310., Availability: Document partially illegible.	U - Unclassified
<b>Thin-cell Storage Battery.</b>	AD0499967	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Bennett,D. E., Matsch,L. W.	11/10/1947	Final technical rept.,	68	ARF-90-391-E-F (ARF90391EF)		W-11-022-ORD-11164 (W11022ORD11164)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified
<b>Surface Effects On Blast Loading. Part ii. Peak Pressure Versus Radius Comparison Of Test Data With Theory.</b>	AD0511443	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Parsons,W. D.	1/1/1957	Interim rept. no. 3,	11	ARF-D092-3 (ARFD0923), AFSWP-938-Pt-2 (AFSWP938Pt2)	938-Pt-2 (938Pt2)	AF 33(616)-3218 (AF336163218)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 51 - RESTRICTED DATA		S - Secret

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Surface Effects On Blast Loading.</b>	AD0511535	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Chapin,S. G., Parsons,W. D., Barbarek,L. A. C.	5/21/1956	Interim rept. no. 1, 21 Nov 55-21 May 56,	72	ARF-D092-1 (ARFD0921), AFSWP-937 (AFSWP937)	937 (937)	AF 33(616)-3218 (AF336163218)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 52 - FORMERLY RESTRICTED DATA		S - Secret
<b>Surface Effects On Blast Loading. Part I. Z(thermal Radiation.)z</b>	AD0511841	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Porzel,F. B.	1/1/1956	Interim rept. no. 2,	69	ARF-D092-2 (ARFD0922), AFSWP-938-Pt-1 (AFSWP938Pt1)	938-Pt-1 (938Pt1)	AF 33(616)-3218 (AF336163218)	B - 03 - U.S. GOVT. ONLY, 52 - FORMERLY RESTRICTED DATA	Distribution: USGO: others to Director, Defense Atomic Support Agency, Washington, D. C. 20305.	C - Confidential
<b>Studies On Sidewinder Infrared Missiles.</b>	AD0527408	IIT RESEARCH INST CHICAGO ILL	Feingold,H., Grabarek,D., Granath,J. A., McManus,J. E., Prince,R. T.	7/24/1970	Final rept. 1952-1967,	104			NOrd-11454 (NOrd11454), NOrd-16969 (NOrd16969)	B - 03 - U.S. GOVT. ONLY	Distribution limited to U.S. Gov't. agencies only; Contractor Performance Evaluation; 17 Aug 73. Other requests for this document must be referred to Commander, Naval Air Systems Command, Attn: AIR-50174. Washington, D. C. 20361.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Wind Tunnel Tests Of The T84 75mm Heat Projectile.	AD0802146	BALLISTIC RESEARCH LABS ABERDEEN PROVING GROUND MD	Krieger,R. H.	9/1/1950	Memorandum rept.,	41	BRL-MR-518 (BRLMR518)			C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: No Foreign without approval of Ballistic Research Labs., Aberdeen Proving Ground, Md. 21005.	U - Unclassified
Contra-rotating Propulsion Shafting System.	AD0804521	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Dawson,D. E.	4/1/1963	Final rept. 9 Jun 61-31 Jan 63,	338			NObs-84798 (NObs84798)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Controlled: all requests to Commander, Naval Ship Systems Command, Washington, D. C. 20360. Attn: SHIPS-2021.	U - Unclassified
Post Test Hydrodynamic Analysis Of Danny Boy	AD0813726	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Anderson, D. C., Fisher, R., Wiedermann, A. H.	3/27/1963	Final rept. Jan 62-Mar 63	70	ARF-K231K2 (ARFK231K2)	DASA (DASA)	DA-49-146-XZ-097 (DA49146XZ097)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Defense Threat Reduction Agency, 45045 Aviation Dr., Dulles, VA 20166-7517, 1 Oct 99 or higher DoD authority.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Study Of Filter/separator Phenomena.	AD0823056	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Langdon,William M.	1/31/1961	Technical rept. 1 Jan 60-31 Jan 61 on Phase 1,	136	ARF-3169-11 (ARF316911)		DA-44-009-eng-4204 (DA44009eng4204)	B - 03 - U.S. GOVT. ONLY	Distribution: USGO: others to Commanding Officer, Army Mobility Equipment Research and Development Center, Fort Belvoir, Va. 22060.	U - Unclassified
Arpa Propellant Contractors' Synthesis Conference Held On 13-15 April 1964 At lit Research Institute, Chicago, Illinois. Volume 1. Unclassified Presentations	AD0825612	ADVANCED RESEARCH PROJECTS AGENCY ARLINGTON VA		1/1/1964	Conference proceedings	327		ARPA (ARPA)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, X - 57 - EXPORT CONTROL	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; APR 1964. Other requests shall be referred to Defense Advanced Research Projects Agency, ATTN: TIO, 675 North Randolph Street, Arlington, VA 22203-2114. This document contains export-controlled technical data.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Armour Research Foundation Capability In The Area Of Electronic Interference.	AD0829776	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		10/1/1959		32	ARF-Misc-21 (ARFMisc21)		NOas-53694 (NOas53694)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified
Dynamic Characteristics Of Structural Clay Masonry Walls. Phase Report Number Iv. Blast-resistant Design,	AD0851172	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	McKee,K. E., Sauer,R. W.	10/1/1956		153	ARF-K576-4 (ARFK5764)			C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DDC users only.	U - Unclassified
Response Of Multistory Frame Buildings To Atomic Blast	AD0875582	MASSACHUSETTS INST OF TECH CAMBRIDGE DEPT OF CIVIL ENGINEERING	Namyet, Saul, Lawlor, Jr., Edward A., Gray, Ralph G.	4/1/1957		154	AFWP-1032 (AFWP1032)	USAF (USAF)	AF 33(600)-28023 (AF3360028023)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1957. Other requests shall be referred to Directorate of Intelligence, Department of the Air Force, Washington, DC 20330.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation Of Problems Of Temperature And Pressure Influencing The Design Of Bomb Weapons	AD0901951	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Budenholzer, R. A., Fieldhouse, I. B., Goldsmith, A., Nielson, H. J., Schaefer, E. J.	11/1/1957	Technical rept.	98	TR-3 (TR3), AFAC-TR-57-112-3 (AFAC-TR571123)	TR-57-112-3 (TR571123), AFAC (AFAC)	AF 33(616)-3030 (AF336163030)	B - 03 - U.S. GOVT. ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; 28 JUL 1972. Other requests shall be referred to Commander, Air Force Armament Laboratory, Attn: DLOS, Eglin AFB, FL 32542. Document partially illegible.	U - Unclassified
Ogden Shield Assurance Test (osat)	ADB014806	ROCKWELL INTERNATIONAL ANAHEIM CA ELECTRONICS OPERATIONS	Shaw, F. E., Cox, Jr., J. W., Kendrew, J. E.	8/18/1975		20	X75-650/201 (X75650201), GIDEP-E046-1128 (GIDEP-E0461128), GIDEP-347.65.00.00-C1-58 (GIDEP347650000C158)	E046-1128 (E0461128), 347.65.00.00-C1-58 (347650000C158), GIDEP (GIDEP)	F42600-75-C-0617 (F4260075C0617)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; 08 NOV 1976. Other requests shall be referred to Officer-in-Charge, GIDEP Operations Center, Corona, CA 91720.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Memorandum For Record Jsgcc (joint Service Guidance And Control Committee) Meeting Minutes And Attachments Held At Redstone Arsenal, Alabama On 31 October 1985.	ADB097699	TACTICAL WEAPONS GUIDANCE AND CONTROL INFORMATION ANALYSIS CENTER CHICAGO IL		12/1/1985		193	GACIAC-SR-85-18 (GACIACSR8518)			B - 03 - U.S. GOVT. ONLY	Distribution limited to U.S. Gov't. agencies only; Specific Authority; 26 Nov 85. Other requests must be referred to Commander, U.S. Army Missile Command, Attn: AMSMI-RD-TI, Redstone Arsenal, AL 35898-5243.	U - Unclassified
Evaluation Of Dod Information Analysis Centers Program: Representative Sample Study - Iac Program Administration, Management And Oversight	ADB148109	INSTITUTE FOR DEFENSE ANALYSES ALEXANDRIA VA	Frank, Forrest R., Townsley, Edwin S., Berkhouse, Linda H.	6/1/1990	Final rept. Jul 89-Jul 90	344	IDA-P-2419 (IDAP2419), IDA/HQ-89-34889 (IDAHQ8934889)	89-34889 (8934889), ODDRE (ODDRE)	MDA903-89-C-0003 (MDA90389C0003)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 16 Aug 90. Other requests shall be referred to ODDRE (R&AT/RLM), The Pentagon, Washington, DC 20301.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Enzyme Prophylaxis For Chemical Warfare Agents	ADB157471	IIT RESEARCH INST CHICAGO IL	Rajan, Krishna S.	5/1/1991	Final rept. 15 Dec 1989-31 Dec 1990	28	IITRI-C06715 (IITRIC06715), AL*-TR-1991-0054 (ALTR19910054)	TR-1991-0054 (TR19910054), AL* (AL)	F33615-87-D-0609 (F3361587D0609)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, X - 57 - EXPORT CONTROL	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; 2 May 1991. Other requests shall be referred to AL/AOP (STINFO), Brooks AFB, TX 78235-5000., This document contains export-controlled technical data.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Ceramic Materials Of High Electrical Conductivity	ADB183254	ARMOUR RESEARCH FOUNDATION CHICAGO IL		7/16/1951	Quarterly rept. no. 3	25	PN-90-898G (PN90898G)	AMC-AF (AMCAF)	AF 33(038)-16178 (AF3303816178)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 16 JUL 1951. Other requests shall be referred to Air Materiel Command, Attn: Office of Air Research, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
The Aerosoloscope: An Instrument For The Automatic Counting And Sizing Of Aerosol Particles	ADB184383	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Fisher, M. A., Katz, S., Lieberman, A., Alexander, N. E.	1/1/1955		15		DA (DA)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1955. Other requests shall be referred to Department of the Army, Attn: Public Affairs Office, Washington, DC 20310.	U - Unclassified
Determination Of Emissivity And Reflectivity Data On Aircraft Structural Materials. Part 3. Techniques For Measurement	ADB184463	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Olson, O. Harry, Morris, James C.	1/1/1959		105	WADC-TR-56-222-PT-3 (WADCTR56222PT3)	WADC (WADC)	AF 33(616)-3002 (AF336163002)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1959. Other requests shall be referred to Wright Air Development Center, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research And Development Of Plastic Materials For Optics	ADB184551	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Nielsen, Erik R.	9/5/1947	Quarterly rept. no. 1, 1 Jul-1 Sep 1947	115	QR-1 (QR1)	ASCIA (ASCIA)	W-36-039-SC-33705 (W36039SC33705)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; SEP 1947. Other requests shall be referred to Army Signal Corps, Squier Signal Laboratory, Fort Monmouth, NJ.	U - Unclassified
Catalytic Surface Recombination Of Atomic Oxygen	ADB190689	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hacker, David S., marshall, Samson A., Steinberg, Martin, Reinberg, alan R.	4/14/1961	Quarterly rept. no. 6	4	ARF-4203-6 (ARF42036)	NASA (NASA)	NASW-77 (NASW77)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 14 APR 1961. Other requests shall be referred to National Aeronautics and Space Administration, Washington, DC 20546.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Catalytic Surface Recombination Of Atomic Oxygen	ADB190925	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hacker, David S., Steinberg, Martin, Reinberg, Alan	9/1/1961	Quarterly rept. no. 7	28	ARF 4203-7 (ARF42037)	NASA (NASA)	NASW-77 (NASW77)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; SEP 1961. Other requests shall be referred to National Aeronautics and Space Administration, Washington, DC. Document partially illegible.	U - Unclassified
Development And Testing Of Electrical Strain Gages Usable Up To 1600 Deg F	ADB193538	ARMOUR RESEARCH FOUNDATION CHICAGO IL		7/23/1956	Final rept. 21 Jun 1955-21 Jun 1956	38		NAMC (NAMC)	N156-S-32317 (N156S32317)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 23 JUL 1956. Other requests shall be referred to Naval Air Material Center, Philadelphia, PA.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Abstracts Of Papers For The Afosr Contractors' Meeting On Chemical Kinetics Of Propulsion (2nd)	ADB193743	ARMOUR RESEARCH FOUNDATION CHICAGO IL		9/12/1961		22	AFOSR/VA-1417 (AFOSRVA1417)	1417 (1417), AFOSR/VA (AFOSRVA)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 SEP 1961. Other requests shall be referred to Air Force Office of Scientific Research, 801 Randolph St, Arlington, VA 22203-1977. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Shock Tube Studies Of Gaseous Radiation And Heat Transfer Under Simulated Re-entry Conditions	ADB193802	ARMOUR RESEARCH FOUNDATION CHICAGO IL		9/12/1961	Final rept.	112	ARF-4197-4 (ARF41974)	ARGMA (ARGMA)	DA-11-022-ORD-3130 (DA11022ORD3130)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 SEP 1961. Other requests shall be referred to Army Rocket and Guided Missile Agency, redstone Arsenal, AL. Document partially illegible.	U - Unclassified
Ammunition Cook-off Preventive Device For Antiaircraft Weapons.	ADB197379	ARMOUR RESEARCH FOUNDATION CHICAGO IL		10/1/1954	Monthly rept. no. 4,	10		WADC (WADC)	AF33(616)-2480 (AF336162480)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Investigation Of Use Of Crystals As Meteorologic Elements For Measurements Of Temperature, Pressure, And Humidity.	ADB201747	ARMOUR RESEARCH FOUNDATION CHICAGO IL		5/8/1949	Quarterly Progress rept. no. 3, 21 Dec 48-8 Mar 49,	35		SIGC (SIGC)	W36-039-AC--36852 (W36039AC36852)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Rocket Assisted Projectiles.</b>	ADB204145	ARMOUR RESEARCH FOUNDATION CHICAGO IL		11/14/1947		61		OCO (OCO)	W-11-022-ORD-11284 (W11022ORD11284)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Sealing Against Vacuum.</b>	ADB209068	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Ishlinger, J. S.	4/1/1963		13		XD (XD)		C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Effect Of Alloying Elements On Impact Properties Of Quenched And Tempered Steels.</b>	ADB215879	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Baeyertz, M., Craig, W. F., Jr., Sheehan, J. P.	9/1/1949	Technical rept.,	322	TR-22 (TR22)	ONR (ONR)	N6ONR-274 (N6ONR274)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution: DTIC users only., Availability: Document partially illegible.	U - Unclassified
<b>Volume Iii Of Research And Investigation Of Artillery Gun Carriage Design. Analysis Of Firing Data Of 105-mm Gun Carriage, T19.</b>	ADB216569	ARMOUR RESEARCH FOUNDATION CHICAGO IL		10/25/1949	Final rept.,	179	TR-1-1000A-VOL-3 (TR11000AVOL3)	XD (XD)	W-22-011-ORD-9918 (W22011ORD9918)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Volume I Of Research And Investigation Of Artillery Gun Carriage Design.test Equipment For Carriages.</b>	ADB216570	ARMOUR RESEARCH FOUNDATION CHICAGO IL		4/1/1949	Final rept.,	163	TR-1-1000A-VOL-1 (TR11000AVOL1)	XD (XD)	W-22-011-ORD-9918 (W22011ORD9918)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution: DTIC users only., Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Volume II Of Research And Investigation Of Artillery Gun Carriage Design. Dynamic Analysis Of Gun Carriage Structures Under Firing Loads.	ADB216571	ARMOUR RESEARCH FOUNDATION CHICAGO IL		10/3/1949	Final rept.,	184	TR-1-1000A-VOL-2 (TR11000AVOL2)	XD (XD)	W-22-011-ORD-9918 (W22011ORD9918), RAD-7-8027 (RAD78027)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Determination Of Improved Microwave Surfaces.	ADB216953	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Colner, William H., Francis, Howard T.	8/1/1948	Rept. for 16 Jul-15 Aug 48,	27		DA (DA)	W-36-039-SC-32139 (W36039SC32139)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
The Effect Of Carbon Content On The Notched Bar Impact Properties Of Quenched And Tempered Steel.	ADB218128	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Baeyertz, M., Craig, W. F., Jr., Sheehan, J. P.	9/1/1950	Technical rept.,	110	TR-28 (TR28)	ONR (ONR)	N6ONR-274 (N6ONR274)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Recoilless Rifle Research: Instrumentation For The Investigation Of The Interior Ballistics Of Recoilless Rifles.	ADB218458	ARMOUR RESEARCH FOUNDATION CHICAGO IL		10/30/1951	Final rept.	72		FA (FA)	DA-11-022-ORD-10 (DA11022ORD10)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution: DTIC users only., Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Analysis Of Atomic Weapon's Effects Upon Army Ground Operations Equipment.	ADB222858	JOHNS HOPKINS UNIV CHEVY CHASE MD OPERATIONS RESEARCH OFFICE		4/1/1951	Quarterly rept. no. 1.	94	ORO-S-80 (OROS80)	DA (DA)		C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Failure Mechanisms For Advanced Composite Sandwich Construction In Hostile Environments.	ADB224574	NAVAL AIR DEVELOPMENT CENTER WARMINSTER PA AERO MATERIAS DEPT	Waring, G., Hofer, K. E., Jr., Vadala, E., Trabocco, R.	12/1/1979		40		NADC-MA (NADCMA)		C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Report Of Steering Committee Meeting At Armour Research Foundation, Illinois Institute Of Technology, Chicago, On 9-10 November 1950.	ADB224580	ILLINOIS INST OF TECH CHICAGO	Petersen, C. C.	11/1/1950		13		USAF (USAF)	AF-33-(038)-3793. (AF330383793)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Analysis Of Atomic Weapons Effects Upon Army Ground Operations Equipment. Volume II: Effects Of Thermal Radiation,	ADB224617	JOHNS HOPKINS UNIV CHEVY CHASE MD OPERATIONS RESEARCH OFFICE	Clark, Dorothy K.	3/1/1953		146		DA (DA)		C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Studies To Determine The Electrical And Physical Properties Of Fuels And Appendix.	ADB224929	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Petersen, C. C.	10/1/1950	Technical rept.,	243	AMC-TR-6224 (AMCTR6224)	TR-6224 (TR6224), AMC-AF (AMCAF)		C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Investigation Of Fuel Density As A Function Of Temperature.	ADB227950	ARMOUR RESEARCH FOUNDATION CHICAGO IL		11/30/1950		6		AMC-AF (AMCAF)		C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Bonding Materials, Metallic Mating Surfaces: Low Rf Impedance.	ADB227953	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Steven, Gary	6/26/1951		9	RN-1 (RN1)	AMC-AF (AMCAF)	AF-33(038)-23583 (AF3303823583)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Corrosion Preventive Additives - July 5 To Aug 5, 1951,	ADB227964	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Schwoagler, E. J.	8/5/1951		12		WADC (WADC)	AF 33(038)-9202 (AF330389202)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Low Temperature Lubricating Oil Additives</b>	ADB227983	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Gavlin, Gilbert	8/1/1950	Monthly progress rept. no. 20, 5 Jul-5 Aug 50	7		AMC-AF (AMCAF)	AF33(038)-1644 (AF330381644)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Corrosion Preventive Additives.</b>	ADB228065	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Feimleib, Morris, Francis, Howard T., Lusker, R. A.	5/31/1950	Rept. no. 2, for 13 Mar-23 May 50,	11		AMC-AF (AMCAF)	AF33(038)-9202 (AF330389202)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Corrosion Preventive Additives, January 20 - March 10, 1950.</b>	ADB228082	ARMOUR RESEARCH FOUNDATION CHICAGO IL		3/1/1950	Report no. 1, 20 Jan-10 Mar 50,	9		AMC-AF (AMCAF)	W33-038-AC-9202 (W33038AC9202)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Development Of A Testing Procedure In The Single-cylinder Engine For Gumming Tendency Of Aircraft Engine Oils In Piston Rings</b>	ADB228133	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wenzel, H.	12/1/1946		24	AMC-AF-F-TS-1043-RE (AMCAFFTS1043 RE)	F-TS-1043-RE (FTS1043RE), AMC-AF (AMCAF)		C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 DEC 1937. Other requests shall be referred to Air Force Materiel Command, Wright-Patterson AFB, OH 45433-6503.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Low Temperature Lubricating Oil Additives And Appendix.</b>	ADB228238	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Gavlin, Gilbert, Jones, S. P., Jr., Thorp, Clark E.	12/1/1950	Research rept. no. 25, 15 Apr-15 Oct 50,	78	FR-25 (FR25)	AMC-AF (AMCAF)	AF33(038)-1644 (AF330381644)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Corrosion Preventive Additives.</b>	ADB228241	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Feinleib, Morris, Francis, Howard T.	7/28/1950	Rept. no. 3, 24 May-21 Jul 50,	9		AMC-AF (AMCAF)	AF-33(038)-9202 (AF330389202)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Low Temperature Lubricating Oil Additives - Appendixes A-e.</b>	ADB229229	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hedrick, Glen W., Thorp, Clark E.	11/15/1950	Formal rept. no. 24,	283		AMC-AF (AMCAF)	AF 33(038)-1644 (AF330381644)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Stress Analysis Of 90mm And 105mm Steel Cartridge Cases</b>	ADB229615	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Barriage, J. B., Durelli, A. J., Lake, R. L., Lype, E. F., McNiel, E. G.	9/7/1955	Final rept.	109	ARF-K070 (ARFK070), RIA-77-U1192 (RIA77U1192)	77-U1192 (77U1192), FA (FA)		C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Casting Of Tnt. Part 2: Crack-preventing Additives.</b>	ADB229670	ARMOUR RESEARCH FOUNDATION CHICAGO IL		6/20/1956	Final rept.	27	REPT-40 (REPT40)	DA (DA)	DA-11-173-ORD-231 (DA11173ORD231)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Casting Of Tnt. Part I: Elastomer Phase</b>	ADB230276	ARMOUR RESEARCH FOUNDATION CHICAGO IL		6/29/1956	Final rept.	46	40 (40), RIA-77-U1191 (RIA77U1191)	77-U1191 (77U1191), DA (DA)	DA-11-173-ORD-231 (DA111730RD231)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Basic Research On Combustible Cartridge Cases And Associated Development Work.	ADB230418	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Remaly, Robert F.	6/13/1961	Rept. no. 30,	81	RIA-77-U1193 (RIA77U1193)	77-U1193 (77U1193), DA (DA)	DA-11-022-ORD--2228 (DA11022ORD2228)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Analysis Of Atomic Weapon's Effects Upon Army Ground Operations Equipment. Fourth Phase Report. Volume I.	ADB234136	JOHNS HOPKINS UNIV CHEVY CHASE MD OPERATIONS RESEARCH OFFICE		11/20/1951	Staff memo.	58	ORO-S-208 (OROS208)	XD (XD)		C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Proceedings Of The Third Automatic Target Recognizer Systems And Technology Conference Held At The Naval Postgraduate School, Monterey, California On 29 June - 1 July, 1993. Volume I - Unclassified.	ADB244523	TACTICAL WEAPONS GUIDANCE AND CONTROL INFORMATION ANALYSIS CENTER CHICAGO IL	Corbett, Francis, Westerkamp, Lori	9/1/1993	Proceedings rept. 29 Jun-1 Jul 93,	451	GACIAC-PR-93-01-VOL-1 (GACIACPR9301VOL1)	ARPA (ARPA)	DLA900-86-C-0022 (DLA90086C0022)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 21 - JOURNAL ARTICLES - CITATION ONLY, X - 57 - EXPORT CONTROL	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; 29 Jun 1993. Other requests shall be referred to Commander, U.S. Army Missile Command, AMC Smart Weapons Management Office, Attn: AMSMI-SW, Redstone Arsenal, AL 35898-5222., Availability: GACIAC IIT Research Institute, 10 West 35th Street, Chicago, IL 60616. No copies furnished by DTIC. DTIC	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Analysis Of Atomic Weapon's Effects Upon Army Ground Operations Equipment	ADB268617	ARMOUR RESEARCH FOUNDATION CHICAGO IL		6/18/1951	Third phase rept.	56	ORO-S-200 (OROS200)	XD (XD)		F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Operations Research Ofc., The Johns Hopkins Univ., 6410 Connecticut Ave., Chevy Chase, MD 20815, Jun 51.	U - Unclassified
Evaluation Procedures For Screening Coated Refractory Metal Sheet	ADB270487	NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL WASHINGTON DC		2/15/1963		20	MAB-189-M (MAB189M)	DARPA (DARPA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research INSTITUTE, 201 Mill Street, Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Thermo-structural Composite Programs	ADB270494	GENERAL DYNAMICS CORP FORT WORTH TX	Burroughs, J. E., Thornton, H. R., Howeth, M. F., Halkias, J. E., McDonough, W.	8/10/1964		29	FZM-4205 (FZM4205)	ASD (ASD)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research INSTITUTE, 201 MILL STREET, ROME, NEW YORK 13440.	U - Unclassified
Refractory Alloy Coatings Evaluation Programs At The University Of Dayton Research Institute	ADB270500	DAYTON UNIV OH	Wurst, John C., Cherry, John A.	8/20/1964		53		USAF (USAF)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
A 6-inch Subsonic High-temperature Arc Tunnel For Structures And Material Tests	ADB270528	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION HAMPTON VA LANGLEY RESEARCH CENTER	Brown, Ronald D., Levin, L. R.	4/1/1963	Technical note	38	NASA-TN-D-1621 (NASATND1621)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
On Methods And Data Required For Heat Shield Calculations	ADB270532	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON DC	Mounis, Georges	2/1/1965	Nasa technical translation	34	NASA-TT-F-294 (NASATTF294)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Experimental Study Of Factors Controlling The Effectiveness Of High-temperature Protective Coatings For Tungsten	ADB270567	GENERAL TELEPHONE AND ELECTRONICS LABS INC BAYSIDE NY BAYSIDE LAB	Brett, J., Seigle, L. L.	8/20/1964	Rept. for 18-20 Aug 1964	18	TR-64-352.1 (TR643521)	AFSC (AFSC)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
Some Developments In Improved Methods For The Measurement Of The Spectral Irradiances Of Solar Simulators	ADB270582	NATIONAL BUREAU OF STANDARDS GAITHERSBURG MD	Stair, Ralph, Schneider, William E., Waters, William R., Jackson, John J., Brown, Roger E.	4/1/1965	Contractor rept.	55	NASA-CR-201 (NASACR201)	CR-201 (CR201), NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC, IIT Research Institute, 210 Mill Street, Rome, New York 13440).	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Stability Of Four Titanium-alloy And Four Stainless-steel Sheet Materials After Exposures Up To 22 000 Hours At 550 Deg. F (561 Deg. K)	ADB270583	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION HAMPTON VA LANGLEY RESEARCH CENTER	Heimerl, George J., Baucom, Robert M., Manning, Charles R., Jr., Braski, David N.	2/1/1965	Technical note	76	NASA-TN-D-2607 (NASATND2607)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified
Development Of Oxidation Resistant Coatings For Refractory Metals	ADB270599	SYLVANIA ELECTRIC PRODUCTS INC HICKSVILLE NY SYLCOR DIV	Sama, L., Priceman, S., Reznik, B.	8/20/1964	Technical rept.	25	STR-64-5401.5 (STR6454015)	AFSC/WPAFB (AFSCWPAFB)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Friction And Wear Of Low-melting Binary And Ternary Gallium Alloy Films In Argon And In Vacuum	ADB270614	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CLEVELAND OH LEWIS RESEARCH CENTER	Kuczkowski, Thomas J., Buckley, Donald H.	3/1/1965	Technical note	18	TN-D-2721 (TND2721)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
Results From Sert I Ion Rocket Flight Test	ADB270617	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CLEVELAND OH LEWIS RESEARCH CENTER	Cybulski, Ronald J., Shellhammer, Daniel M., Lovell, Robert R., Domino, Edward J., Kotnik, Joseph T.	3/1/1965	Technical note	45	TN-D-2718 (TND2718)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002). Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified



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High Temperature Protective Coatings For Refractory Metals	ADB270618	UNION CARBIDE CORP PARMA OH CARBON PRODUCTS DIV	Bitzer, E. B., Rexer, J., Fenish, R. G.	1/1/1964	Progress rept. no. 1, 23 Oct 1964-23 Jan 1965	31		NASA (NASA)	NASW-1030 (NASW1030)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute 201 Mill Street Rome, New York 13440.	U - Unclassified
Improved Ceramic-bonded Calcium Fluoride Coatings For Lubricating Nickel-base Alloys In Air At Temperatures From 500 Deg To 1700 Deg F	ADB270620	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CLEVELAND OH LEWIS RESEARCH CENTER	Slaney, Harold E.	2/1/1965	Technical note	19	TN-D-2688 (TND2688)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Inf; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Techniques For Cutting And Forming Of Tungsten Sheet	ADB270622	DOUGLAS AIRCRAFT CO INC SANTA MONICA CA MISSILE AND SPACE SYSTEMS DIV	Babel, Henry W., Bonesteel, Robert M.	12/1/1963		34	DP-1731 (DP1731)	USAF (USAF)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
Refractory Metal Coating Systems Utilized On A Typical Hypersonic Glide Re-entry Vehicle	ADB270623	MCDONNELL AIRCRAFT CO ST LOUIS MO	Culp, J. D.	3/12/1963		34		USAF (USAF)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Portable Integrating Sphere For Monitoring Reflectance Of Spacecraft Coatings	ADB270627	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GREENBELT MD GODDARD SPACE FLIGHT CENTER	Fussell, W. B., Triolo, J. J., Jerozal, F. A.	4/1/1963	Technical note	17	TN-D-1714 (TND1714)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified
Investigation Of Whisker-reinforced Metallic Composites	ADB270629	GENERAL ELECTRIC CO PHILADELPHIA PA MISSILE AND SPACE DIV	Sutton, Willard H.	3/14/1963		13	SSL-63-1 (SSL631)	USAF (USAF)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Vibrational Characteristics Of Some Thin-walled Cylindrical And Conical Frustum Shells	ADB270630	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION HAMPTON VA LANGLEY RESEARCH CENTER	Watkins, Jerry D., Clary, Robert R.	3/1/1965	Technical note	33	NASA-TN-D-2729 (NASATND2729)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute 201 Mill Street, Rome, New York 13440.	U - Unclassified
Electrorefining Beryllium. Operation Of A Prototype Cell	ADB270639	BUREAU OF MINES WASHINGTON DC	Wong, M. M., Klosterman, J. E.	1/1/1964		22	BM-RI-6489 (BMRI6489)	DOI (DOI)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation Of A Liquid-fluorine Inducer And Main-stage Pump Combination Designed For A Suction Specific Speed Of 20 000	ADB270650	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CLEVELAND OH LEWIS RESEARCH CENTER	Osborn, Walter M.	3/1/1965	Technical memorandum	23	NASA-TM-X-1070 (NASATMX1070)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
Preliminary Investigation Of Catastrophic Fracture Of Liquid-filled Tanks Impacted By High-velocity Particles	ADB270654	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CLEVELAND OH LEWIS RESEARCH CENTER	Stepka, Francis S., Morse, C. R.	5/1/1963	Technical note	31	NASA-TN-D-1537 (NASATND1537)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
The Mechanism Of Stress Corrosion Of Titanium Alloys Exposed To Sodium Chloride At Elevated Temperatures	ADB270655	NATIONAL BUREAU OF STANDARDS GAITHERSBURG MD	Logan, Hugh L., McBee, Michael J., Ugiansky, Gilbert M.	8/25/1964	Quarterly status rept.	12	NBS-8534 (NBS8534), NASA-CR-58834 (NASACR58834)	CR-58834 (CR58834), NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified
Description And Operation Of Spacecraft In Sert I Ion Thrustor Flight Test	ADB270685	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CLEVELAND OH LEWIS RESEARCH CENTER	Gold, Harold, Rulis, Raymond J., Maruna, Frank A., Jr., Hawersaat, William H.	3/1/1965	Technical memo.	20	NASA-TM-X-1077 (NASATMX1077)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; (Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute 201 Mill Street, Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Electrorefining Of Titanium-oxygen Alloys	ADB270686	BUREAU OF MINES WASHINGTON DC	Leone, Oliver Q., Wartman, F. S.	1/1/1965	Investigations rept.	26	RI-6588 (RI6588)	DOI (DOI)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
A Study Of The Influence Of Heat Treatment On Microstructure And Properties Of Refractory Alloys	ADB270687	GENERAL ELECTRIC CO CINCINNATI OH FLIGHT PROPULSION LAB DEPT	Chang, W. H.	3/31/1963	Quarterly progress rept. no. 1, 1 Jan-31 Mar 1963	22	DM63-112 (DM63112)	USAF (USAF)	AF33(657)-10656 (AF3365710656)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Study Of Processing History On Fracture Of Materials At High Strength Levels	ADB270688	MASSACHUSETTS INST OF TECH CAMBRIDGE METALS PROCESSING LAB		4/1/1963	Progress rept. no. 3, 1 Nov-31 Jan 1963	27		ASD (ASD)	AF33(657)-9169 (AF336579169)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified
Development Of Composite Structures For High-temperature Operation	ADB270714	SOLAR TURBINES INTERNATIONAL SAN DIEGO CA	Licciardello, R., Ohnysty, B., Boland, J.	2/28/1965	Interim rept. no. 2, 1 Nov 1964-28 Feb 1965	71	ER-1480-9 (ER14809)	AFFDL (AFFDL)	AF 33(615)-1831 (AF336151831)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Self-cooled Rocket Nozzles	ADB270721	ROCKETDYNE CANOGA PARK CA	Seader, J. D., Schwarzkopf, P., Weisert, E. D.	4/30/1963	Quarterly progress rept. 1 Jan-31 Mar 1963	62	R-3853-3 (R38533)	USAF (USAF)	AF 33(657)-9166 (AF336579166)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
Effects Of Deformation Of The Metastable Austenitic Condition On The Properties Of High-strength Steel Forgings	ADB270729	PHILCO-FORD CORP NEWPORT BEACH CA AERONUTRONIC DIV	Martin, C. F., Gerberich, W. W.	8/31/1962	Quarterly rept. no. 1	25	U-1828 (U1828)	ASD/WPAFB (ASDWPAFB)	AF 33(657)-8539 (AF336578539)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Influence Of Microstructural Inclusions On Friction And Wear Of Nickel And Iron In Vacuum To 10(exp-9) Millimeter Of Mercury	ADB270732	NATIONAL AERONAUTICS AND SPACE ADMINISTRATIO N CLEVELAND OH LEWIS RESEARCH CENTER	Buckley, Donald H., Johnson, Robert L.	5/1/1963	Technical note	27	NASA-TN-D-1708 (NASATND1708)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
Generation Of Long Time Creep Data Of Refractory Alloys At Elevated Temperatures	ADB270835	TRW EQUIPMENT LABS CLEVELAND OH	Sawyer, J. C., Philleo, C. H.	12/26/1964	Quarterly rept. no. 6, 26 Sep-26 Dec 1964	64	NASA-CR-54287 (NASACR54287)	CR-54287 (CR54287), NASA (NASA)	NAS3-2545 (NAS32545)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
The Development Of Optimum Manufacturing Methods For Columbium Alloy Sheet. Item 1: Sub-contract For The Development Of Sheet Process For D-43 Alloy	ADB270975	CRUCIBLE STEEL CO OF AMERICA MIDLAND PA		7/15/1963	Interim rept. no. 9, 15 Dec 1962-15 Jul 1963	85		ASD/WPAFB (ASDWPAFB)	AF33(600)-39942 (AF3360039942)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
Properties Of Ferrous-al Type Alloys Containing Additions Of Yttrium	ADB270976	GENERAL ELECTRIC CO CINCINNATI OH ADVANCED TECHNOLOGY PROGRAMS DEPT	Wukusick, C. S., Collins, J. F.	6/25/1963		42	TM-63-7-3 (TM6373)	DOE (DOE)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Screening Test Program For Evaluation Of The Stress Corrosion Susceptibility Of Alloys Under Consideration For Application As Skin Material	ADB270977	DOUGLAS AIRCRAFT CO LONG BEACH CA AIRCRAFT DIV	Avery, C. H., Turley, R. V., Schmid, F. R., Simpson, R. A.	4/1/1963	Quarterly progress rept. no. 4, Mar 1962-Mar 1963	225	DAC-31421 (DAC31421)	ASD/WPAFB (ASDWPAFB)	AF33(657)-8543 (AF336578543)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 1340.	U - Unclassified
Current Research On Refractory Composites At The Martin Company, Space Systems Division	ADB270981	MARTIN CO BALTIMORE MD	Strauss, E. L.	2/1/1963		23	RM-140 (RM140)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome< new York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Effect And Control Of Chatter Vibrations In Machine Tool Process	ADB271016	CINCINNATI MILLING AND GRINDING MACHINES INC OH	Lemon, Jason R., Long, Gerald W.	8/1/1963	Interim engineering progress rept. 1 May-1 Aug 1963, Phase 2	103	ASD-IR-7-771-VOL-3 (ASDIR7771VOL3 )	IR-7-771-VOL-3 (IR7771VOL3), ASD/WPAFB (ASDWPAFB)	AF 33(657)-9143 (AF336579143)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified
Preliminary Investigation Of Particle-substrate Bonding Of Plasma-sprayed Materials	ADB271047	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CLEVELAND OH LEWIS RESEARCH CENTER	Grisaffe, Salvatore J., Spitzig, William A.	9/1/1963	Technical note	32	NASA-TN-D-1705 (NASATND1705)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2003. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill street, Rome, New York 13440	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation Of Mechanisms For Oxidation Protection And Failure Of Intermetallic Coatings For Refractory Metals	ADB271089	PHILCO-FORD CORP NEWPORT BEACH CA AERONUTRONIC DIV	Barlett, R. W., Gage, P. R., McCamont, J. W., Larssen, P. A., Fassell, W. M., Jr.	10/15/1963	Quarterly progress rept. no. 5	36		ASD (ASD)	AF33(657)-9170 (AF336579170)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 210 Mill Street, Rome, New York 13440.	U - Unclassified
Continued Investigation Of An Advanced-temperature, Tantalum-modified, Nickel-base Alloy	ADB271090	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CLEVELAND OH LEWIS RESEARCH CENTER	Freche, John C., Waters, William J.	4/1/1963	Technical note	32	NASA-TN-D-1531 (NASATND1531)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Composite Material Research At The Boeing Company	ADB271091	BOEING CO SEATTLE WA	Simpson, Frederick H.	2/1/1963		17		USAF (USAF)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified
Status Of The Research Materials Information Center	ADB271343	OAK RIDGE NATIONAL LAB TN	Connolly, T. F.	6/1/1963		43		DOE (DOE)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info.; Sep 2002. Other requests shall be referred to AMPTIAC, IIT Research Institute, 201 Mill Street, Rome, NY 13340.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Preparation Of Standard Samples And Development Of Analytical Techniques For Carbon And Nitrogen In High-purity Beryllium	ADB271345	NUCLEAR METALS INC CONCORD MA	Aronin, L. R., Bauman, F. A., Wolff, A. K.	2/15/1965	Interim Engineering Progress rept. 1 Nov 1964-31 Jan 1965	16	IR-7-360(III) (IR7360III), NMI-9793 (NMI9793)	AFML (AFML)	AF33(615)-1692 (AF336151692)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
The Rototnet: A High-performance Hypersonic Decelerator For Planetary Entry	ADB271346	ASTRO RESEARCH CORP CARPINTERIA CA	Kyser, A. C.	2/14/1965		94	ARC-R-176 (ARCR176)	NASA (NASA)	NAS7-272 (NAS7272)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill street, Rome, New York 13440.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Reactivity Of Titanium With Oxygen	ADB271478	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION HUNTSVILLE AL GEORGE C MARSHALL SPACE FLIGHT CENTER	Riehl, W. A., Key, C. F., Gayle, J. B.	1/1/1963	Technical rept.	125	NASA-TR-R-180 (NASATRR180)	TR-R-180 (TRR180), NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified
Progress Report Of The Nasa Special Committee On Materials Research For Supersonic Transports	ADB271621	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON DC	Raring, Richard H., Freeman, J. W., Schultz, J. W., Voorhees, H. R.	5/1/1963	Technical note	195	NASA-TN-D-1798 (NASATND1798)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Frontal Section For Super-orbital, Lifting, Re-entry Vehicle	ADB271683	SOLAR TURBINES INTERNATIONAL SAN DIEGO CA	Licciardello, M. R., Fredlund, L., Ohnysty, B.	4/18/1963	Quarterly progress rept. no. 5	72	ER-1115-21 (ER111521)	AFFDL (AFFDL)	AF33(616)-8497 (AF336168497)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info Sep 2002, requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified
Effect Of Nuclear Radiation On Materials At Cryogenic Temperatures	ADB271685	LOCKHEED-GEORGIA CO MARIETTA LOCKHEED GEORGIA NUCLEAR LAB		3/1/1963	Quarterly progress rept. no. 9, Jan-Mar 1963	88	ER-6219 (ER6219)	NASA (NASA)	NASW-114 (NASW114)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Elastic Constants For Bending And Twisting Of Corrugation-stiffened Panels	ADB271704	NATIONAL AERONAUTICS AND SPACE ADMINISTRATIO N HAMPTON VA LANGLEY RESEARCH CENTER	Stroud, W. J.	1/1/1963	Technical rept.	44	NASA-TR-R-166 (NASATRR166)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill, Rome, New York 13440.	U - Unclassified
Investigation Of The Effects Of Variable-amplitude Loadings On Fatigue Crack Propagation Patterns	ADB271724	NATIONAL AERONAUTICS AND SPACE ADMINISTRATIO N HAMPTON VA LANGLEY RESEARCH CENTER	Hudson, C. M., Hardrath, Herbert F.	8/1/1963	Technical note	26	NASA-TN-D-1803 (NASATND1803)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Lightweight Fiber Metallurgical Armor Material	ADB271817	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Pollack, William, Fisher, James I., Levinson, David W.	6/22/1959	Summary rept. 20 Jun 1958-19 Jun 1959	10	ARF-2153-6 (ARF21536)	OTAC (OTAC)	DA-11-022-ORD-2824 (DA11022ORD2824)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Army Tank-Automotive Comd., Detroit Arsenal, Warren, MI 48397, Jun 1959; or higher DoD authority.	U - Unclassified
The Effect Of Initial Imperfections On The Buckling Stress Of Cylindrical Shells	ADB271848	CALIFORNIA INST OF TECH PASADENA	Babcock, C. D., Sechler, E. E.	7/1/1963	Technical note	49	NASA-TN-D-2005 (NASATND2005)	TN-D-2005 (TND2005), NASA (NASA)	NSG-18-59 (NSG1859)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
A Method For Predicting The Static Strength Of A Stiffened Sheet Containing A Sharp Central Notch	ADB271852	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION HAMPTON VA LANGLEY RESEARCH CENTER	Leybold, Herbert A.	8/1/1963	Technical note	26	NASA-TN-D-1943 (NASATND1943)	NASA (NASA)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street Rome, New York 13440.	U - Unclassified
Nickel Maraging Steels, Preliminary Investigation Of 250 And 300 Bar (18nicomo)	ADB271865	NORTH AMERICAN AVIATION INC COLUMBUS OH COLUMBUS DIV	Lumm, J. A., Sampson, H. B.	3/15/1963		30	NA63H-202 (NA63H202)	USAF (USAF)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Performance And Operating Experience Of A Space Simulation Chamber Used For Propulsion Testing	ADB272115	AEROSPACE CORP EL SEGUNDO CA	Williams, R. B., Fergus, J. L., Jr.	5/1/1963		39		USAF (USAF)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute 201 Mill Street, Rome, New York 13440.	U - Unclassified
High Temperature Oxidation Protective Coatings For Vanadium-base Alloys	ADB274297	ARMOUR RESEARCH FOUNDATION CHICAGO IL		6/1/1963	Bimonthly rept. no. 4, 13 Mar-12 May 1963	23		NAVWEPS (NAVWEPS)	N600(19)59182 (N6001959182)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Jun 1963. Other requests shall be referred to Bureau of Naval Weapons, Washington, DC 20350	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Assessment Of The Potential For Interference From The Plss Airborne Data Link Transmitters To The Tr-1 System Ground Data Link Receiver	ADB332038	ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPOLIS MD	Mullen, Robert L., Dean, Gene, Gruendl, Max G.	3/1/1983	Consulting rept.	133	ECAC-CR-83-016 (ECACCR83016)	ASD/WPAFB (ASDWPAFB)	F19628-80-C-0042 (F1962880C0042)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; MAR 1983. Other requests shall be referred to Aeronautical Systems Division, ATTN: RWQ, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Operational Study Of The Combat Development System. Part 4	ADB343566	ARMOUR RESEARCH FOUNDATION CHICAGO IL		3/31/1959	Final rept.	505		ASSA-WPO (ASSAWPO)	DA-36-039-SC664-71 (DA36039SC66471)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; MAR 1959. Other requests shall be referred to U.S. Army Signal Supply Agency. Washington Procurement Office, Washington, DC 20310. Pre-dates formal DoD distribution statements. Treat as DoD only.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
The Genesis Effectiveness Simulation	ADB355374	IIT RESEARCH INST HUNTSVILLE AL ALABAMA TECHNOLOGY CENTER	Cash, Mark A., Petrovic, Joseph J.	6/27/1989	Conference paper	28		AMSMI-SW (AMSMISW)		X - 07 - EXPORT CONTROL, X - 57 - EXPORT CONTROL	Distribution authorized to U.S. Gov't. agencies and private individuals or enterprises eligible to obtain export-controlled technical data in accordance with DoDD 5230.25 APR 1990. Controlling DoD office is Army Materiel Command, Smart Weapons Management Office, ATTN: AMSMI-SW, Redstone Arsenal, AL 35898-5222.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Refractory Oxide Bodies And Coatings For Aircraft Power Plants	ADB368388	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Neff, John M., Flint, E. P.	8/1/1950	Technical rept.	34	AMC-AF-TR-6446 (AMCAFTR6446)	TR-6446 (TR6446), AMC-AF (AMCAF)	AF 33(038)-2289 (AF330382289)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; AUG 1950. Other requests shall be referred to Air Force Materiel Command, Wright-Patterson AFB, OH 45433. Pre-dates formal DoD distribution statements. Treat as DoD only.	U - Unclassified
Results Of Initial Tests Of Dtdma Jtids Effects On Tacan/dme And Iff Receivers, Volume 2	ADB369647	ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPOLIS MD	Dula, Gary D.	3/1/1980	Final rept.	173	ECAC-PR-80-003 (ECACPR80003)	NADC (NADC)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; MAR 1980. Other requests shall be referred to Electronmagnetic Compatibility Analysis Center, Annapolis, MD 21402.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Results Of Initial Tests Of Dtdma Jtids Effects On Tacan/dme And Iff Receivers, Volume 1	ADB373801	ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPOLIS MD	Dula, Gary D.	3/1/1980	Final rept.	253	ECAC-PR-80-003 (ECACPR80003)	NADC (NADC)		B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; MAR 1980. Other requests shall be referred to Electronmagnetic Compatibility Analysis Center, Annapolis, MD 21402.	U - Unclassified
Engineering Manual For Mss-2-x Automatic Interference Prediction System	ADB389512	ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPOLIS MD	Iseli, J., Templeton, D.	4/1/1966	Technical rept.	55	ESD-TR-66-5 (ESDTR665)	TR-66-5 (TR665), ESD (ESD)	AF 19(628)-5049 (AF196285049)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Electromagnetic Compatibility analysis Center, US Navy Marine Engineering Laboratory, Annapolis, MD 21402, APR 1966, or higher DoD authority.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation To Determine Dynamic Loading Caused By Combination Of Gun Muzzle Blast And Aerodynamic Forces.	ADB800887	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Barten, H. J., Jacobs, K. H.	8/5/1952	Memorandum rept. no. 16, 2 Jun-1 Jul 52,	5		USAF (USAF)	AF33(038)-19728 (AF3303819728)	E - 04 - DOD ONLY	DISTRIBUTION AUTHORIZED TO DOD ONLY; ADMINISTRATIVE /OPERATIONAL USE; 24 FEB 1999. OTHER REQUESTS SHALL BE REFERRED THROUGH DEFENSE TECHNICAL INFORMATION CENTER, DTIC-BCS, 8725 JOHN J KINGMAN RD., FT. BELVOIR, VA 22060-6218	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Lightweight Waveguides.	ADB800888	ARMOUR RESEARCH FOUNDATION CHICAGO IL	DeViney, Albert F.	5/13/1952	Final rept.,	38		USAF (USAF)	AF33(038)-23588 (AF3303823588)	E - 04 - DOD ONLY	DISTRIBUTION AUTHORIZED TO DOD ONLY; ADMINISTRATIVE /OPERATIONAL USE; 24 FEB 1999. OTHER REQUESTS SHALL BE REFERRED THROUGH DEFENSE TECHNICAL INFORMATION CENTER, DTIC-BCS, 8725 JOHN J KINGMAN RD., FT. BELVOIR, VA 22060-6218	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
2.75 In. Automatic Rocket Launcher, T110e3 And F-80 Installation Programs.	ADB801529	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Bobco, W. D., Kamp, E. A.	7/19/1951	Rept. no. 12,	3		USAF (USAF)	AF-33(038)-14538 (AF3303814538)	E - 04 - DOD ONLY	DISTRIBUTION AUTHORIZED TO DOD ONLY; ADMINISTRATIVE /OPERATIONAL USE; 24 FEB 1999. OTHER REQUESTS SHALL BE REFERRED THROUGH DEFENSE TECHNICAL INFORMATION CENTER, DTIC-BCS, 8725 JOHN J KINGMAN RD., FT. BELVOIR, VA 22060-6218	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
2.75 In. Automatic Rocket Launcher, T110e3 And F-80 Installation Programs.	ADB801530	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Bobco, W. D., Kamp, E. A.	8/20/1951	Rept. no. 13,	3		USAF (USAF)	AF-33(038)-14538 (AF3303814538)	E - 04 - DOD ONLY	DISTRIBUTION AUTHORIZED TO DOD ONLY; ADMINISTRATIVE /OPERATIONAL USE; 24 FEB 1999. OTHER REQUESTS SHALL BE REFERRED THROUGH DEFENSE TECHNICAL INFORMATION CENTER, DTIC-BCS, 8725 JOHN J KINGMAN RD., FT. BELVOIR, VA 22060-6218	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
2.75 In. Automatic Rocket Launcher, T110e3 And F-80 Installation Programs.	ADB801531	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Bobco, W. D., Kamp, E. A.	11/13/1951	Memorandum rept. no. 16,	9		USAF (USAF)	AF-33(038)-14538 (AF3303814538)	E - 04 - DOD ONLY	DISTRIBUTION AUTHORIZED TO DOD ONLY; ADMINISTRATIVE /OPERATIONAL USE; 24 FEB 1999. OTHER REQUESTS SHALL BE REFERRED THROUGH DEFENSE TECHNICAL INFORMATION CENTER, DTIC-BCS, 8725 JOHN J KINGMAN RD., FT. BELVOIR, VA 22060-6218	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Ceramic Coatings For Aircraft Power Systems	ADB804659	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Garrison, Beth, Neff, John W., Griffith, J. S.	7/1/1947	Quarterly rept. no. 1, Apr-Jun 1947	20	90-510-G (90510G)	USAF (USAF)	W33-038-AC-16533(17393) (W33038AC1653317393)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Administrative/Operational Use; 01 JUL 1947. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330. Pre-dates formal DoD distribution statements. Treat as DoD only. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research And Development Work On Rocket-assist Projectiles	ADB808218	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rosenberg, P., Jacobs, K. H.	1/2/1951	Rept. for 15 Nov - 9 15 Dec 1950			XD (XD)	DA-11-022-ORD-16 (DA11022ORD16)	E - 04 - DOD ONLY	DISTRIBUTION AUTHORIZED TO DOD ONLY; ADMINISTRATIVE /OPERATIONAL USE; 03 MAR 1999. OTHER REQUESTS SHALL BE REFERRED THROUGH DEFENSE TECHNICAL INFORMATION CENTER, DTIC-BCS, 8725 JOHN J KINGMAN RD., FT. BELVOIR, VA 22060-6218	U - Unclassified
Parasitic Vibrations In Quartz Oscillator Plates	ADB810820	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Leedy, H. A., Siegel, S.	10/1/1946		11	R-2 (R2)	SCEL (SCEL)		E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 01 OCT 1946. Other requests shall be referred to Signal Corps Engineering Laboratories, Fort Monmouth, NJ.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Low Temperature Lubricating Oil Additives - And Appendix	ADB812048	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Swire, Edwin A., Jones, Sam P., Jr., Gavlin, Gilbert	8/1/1951	Formal rept. no. 34, 15 Oct 50-15 May 51		34 (34)	XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 3 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218.	U - Unclassified
Flight Simulator - Three Degrees Of Freedom	ADB812055	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Warnke, G. F., Skoog, D. K., Disney, V. H.	5/28/1951	Memorandum rept. no. 11, 18 Apr-17 May 51		MR-11 (MR11)	XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 3 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Flight Simulator - Three Degrees Of Freedom</b>	ADB812056	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Warnke, G. F., Skoog, D. K.	4/18/1951	Memorandum rept. no. 10 for 18 Mar-17 Apr 51		MR-10 (MR10)	XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 3 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, Va 22060-6218.	U - Unclassified
<b>Flight Simulator - Three Degrees Of Freedom</b>	ADB812106	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Disney, V. H., Warnke, G. F., Schulz, E. H.	2/19/1951	Memorandum rept. no. 8, 18 Jan-17 Feb 51		MR-8 (MR8)	XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 3 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060-6218.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Flight Simulator - Three Degrees Of Freedom	ADB812107	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Disney, V. H., Warnke, G. F., Schulz, E. H.	1/17/1951	Memorandum rept. no. 7, 18 Dec 50-17 Jan 51		MR-7 (MR7)	XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 3 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218.	U - Unclassified
Flight Simulator - Three Degrees Of Freedom	ADB812108	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Warnke, G. F., Skoog, D. K.	6/18/1951	Memorandum rept. no. 12, 18 May-17 Jun 51		MR-12 (MR12)	XD (XD)	AF (AF)	E - 04 - DOD ONLY, X - 57 - EXPORT CONTROL	Distribution authorized to DoD only; Administrative/Operational Use; 3 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218.,	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Flight Simulator - Three Degrees Of Freedom	ADB812109	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Disney, V. H., Warnke, G. F., Schulz, E. H.	3/16/1951	Memorandum rept. no. 9, 18 Feb-17 Mar 51		MR-9 (MR9)	XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 3 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218.	U - Unclassified
Flight Simulator - Three Degrees Of Freedom - And Appendixes A-p	ADB812110	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Disney, V. H., Warnke, G. F., Schulz, E. H.	10/30/1955	Final rept. on Phase-1A			XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 3 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Flight Simulator: Three Degrees Of Freedom	ADB812118	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Disney, V. H., Warnke, G. F., Finison, H. J.	7/18/1951	Memorandum rept., 18 Jun-17 Jul 51		MR-13 (MR13)	XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 4 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218.	U - Unclassified
Flight Simulator: Three Degrees Of Freedom	ADB812119	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Gerlach, A. A., Nothmann, G. A., Bisshopp, K. E.	5/17/1950	Memorandum rept.		MR-3 (MR3)	XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 4 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Flight Simulator: Three Degrees Of Freedom	ADB812120	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Warnke, G. F., Nothmann, G. A., Disney, V. H.	6/15/1950	Memorandum rept.		MR-4 (MR4)	XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 4 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd. Ft. Belvoir, VA 22060 6218.	U - Unclassified
Flight Simulator: Three Degrees Of Freedom	ADB812121	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Disney, V. H., Warnke, G. F., Schulz, E. H.	7/15/1950	Memorandum rept.		MR-5 (MR5)	XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 4 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Flight Simulator: Three Degrees Of Freedom	ADB812122	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Disney, V. H., Warnke, G. F., Schulz, E. H.	8/15/1950	Memorandum rept.		MR-6 (MR6)	XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 4 Dec 98. Other requests shall be referred through Defense Technical Information Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218.	U - Unclassified
Flight Simulator: Three Degrees Of Freedom	ADB812123	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Nothmann, G. A., Skoog, D. K., Devinatz, A.	4/18/1950	Memorandum rept.		MR-2 (MR2)	XD (XD)	AF (AF)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 4 Dec 98. Other requests shall be referred through Defense Technical informaiton Center, DTIC-BRR, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Effects Of Boron Upon The Properties Of Steel.	ADB812835	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Sheehan, John P., Lubker, R. A.	12/14/1951	Progress rept. no. 2,			USAF (USAF)	AF (AF)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only. Administrative/Operational Use; Other requests shall be referred through Defense Technical Information Center, DTIC-BCS, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060-6218., Availability: Hard copy only., Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research On Disturbed Earth For Detection Of Buried Nonmetallic Mines And Appendix 1 - Final Report,	ADB812995	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Karplus, H. B., Tobey, A. R., Miller, H. C.	9/12/1951		2	14 (14)	AERDL (AERDL)	DA-44-009-ENG-167 (DA44009ENG167)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Administrative/Operational Use; 22 Feb 99. Other requests shall be referred through Defense Technical Information Center, DTIC-BCS, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060-6218., Availability: Hard copy only., Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Gas-mantle-type Infrared Source	ADB813193	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Atlas, Leon M., Griffith, J. S.	5/15/1952			ARF-14 (ARF14)	DA (DA)	DA-44-009-ENG-452 (DA44009ENG452)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only. Administrative/Operational Use; 1 Mar 99. Other requests shall be referred through Defense Technical Information Center, DTIC-BCS, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060-6218., Availability: Hard copy only., Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Minutes Of Steering Committee Meeting - Automatic Counting And Sizing Of Aerosol Particles.	ADB813231	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Katz, Sidney	10/15/1952		2		DA (DA)	DA-18-064-CML-1904 (DA18064CML1904)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only. Administrative/Operational Use; 3 Mar 99. Other requests shall be referred through Defense Technical Information Center, DTIC-BCS, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060-6218., Availability: Hard copy only., Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research On Infrared Sensitive Photoconductors .	ADB813232	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Johnson, Gordon L.	10/7/1952	Formal rept. no. 1, 11 Aug-30 Sep 52,			AERDL (AERDL)	DA-44-009-ENG-1416 (DA44009ENG1416)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only. Administrative/Operational Use; 3 Mar 99. Other requests shall be referred through Defense Technical Information Center, DTIC-BCS, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218., Availability: Hard copy only., Availability: Document partially illegible.	U - Unclassified
Crushing Strength Of Aluminum Tubes	ADB817540	CHICAGO UNIV IL	Creutz, E.	9/17/1943		14	MDDC-1448 (MDDC1448)	AEC (AEC)		F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Atomic Energy Commission, Washington, DC, 17 SEP 1943, or higher DoD authority.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Investigation Of Subcritical Ferromagnetic Dispersoids - Fundamental Research In Ferromagnetism	ADB870219	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Gilbert, Thomas L.	6/1/1949	Annual rept.	74		ONR (ONR)	N6onr-274 (N6onr274)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Administrative/Operational Use; 19 August 1999. Other requests shall be referred through Defense Technical Information Center, DTIC-BCS, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060 6218. Availability: Document partially illegible. Hard copy only.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Notes On Material For Mobile Stress Laboratory	ADB870284	ARMOUR RESEARCH FOUNDATION CHICAGO IL		6/1/1949		264		XD (XD)	W-22-011-ord-9918 (W22011ord9918)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Administrative/Operational Use; 03 September 1999. Other requests shall be referred through Defense Technical Information Center, DTIC-BCS, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060-6218. Availability: Document partially illegible. Hard copy only.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Parasitic Vibrations In Quartz Oscillator Plates	ADB870286	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Ekstein, H., Benyon, J. C., Sliegel, S.	7/1/1947		25	ARF-11 (ARF11)	DA (DA)	W36-039-sc-32328 (W36039sc32328)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Administrative/Operational Use; 03 September 1999. Other requests shall be referred through Defense Technical Information Center, DTIC-BCS, 8725 John J. Kingman Rd., Ft. Belvoir, VA 22060-6218. Availability: Document partially illegible. Hard copy only.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Study Of Pressure Pulses Generated By Explosive Charges Whose Cases Do Not Rupture.	ADB953025	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Mandleco,W., Stresau,R., Napadensky,H.	2/24/1959	Quarterly rept. no. 2,	44				B - 03 - U.S. GOVT. ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution limited to U.S. Gov't. agencies only; Test and Evaluation; 16 Jul 81. Other requests for this document must be referred to Commander, Naval Sea Systems Command, Attn: Code 9961. Washington, DC 20362. Availability: Document partially illegible.	U - Unclassified
A Ray Trace Computer Program For The Univac 1105. Task Iii. Phase G,	ADB953032	ARMOUR RESEARCH FOUNDATION CHICAGO IL	O'Brien,K. B., O'Meara,M. A.	3/1/1961		23	ARF-1085 (ARF1085)		NOrd-16969 (NOrd16969)	B - 03 - U.S. GOVT. ONLY	Distribution limited to U.S. Gov't. agencies only; Test and Evaluation; 16 Jul 81. Other requests for this document must be referred to Commander, Naval Sea Systems Command, Attn: Code 9961. Washington, DC 20362.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>The Effect Of Fuel-carried Dirt And Ice On Turbo Jet Power Control Systems.</b>	ADB953445	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Bloomquist,C. R., DeMuth,F. F., Lee,J. C., Teichmann,O. E.	9/1/1950	Technical rept.,	178	AMC-AF-TR-6441 (AMCAFTR6441)	TR-6441 (TR6441)	AF 33(038)-6494 (AF330386494)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>An Improved Catalyst For The Methanol-steam Hydrogen Production Process.</b>	ADB955781	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Morritz,F. L., Berman,L. U., Langdon,W. M.	7/27/1959	Final rept. 7 May 58-31 Jul 59,	53	ARF-3131-7 (ARF31317)		DA-44-009-ENG-3540 (DA44009ENG3540)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 17 Apr 84. Other requests must be referred to Commander, USA Belvoir R&D Center, Attn: STRBE-S. Fort Belvoir, VA 22060.	U - Unclassified
<b>Electromagnetic Radiation Applied To Mine Detection.</b>	ADB955962	ARMOUR RESEARCH FOUNDATION CHICAGO IL		5/22/1950	Final rept. Jul 47-Apr 50.	208			W44-009-ENG-515 (W44009ENG515)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 17 Apr 84. Other requests must be referred to Cdr., USA Belvoir R&D Ctr., Attn: STRBE-N via STRBE-S, Ft. Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Structure And Imperfections In Lead Azide Crystals.	ADB956057	ARMOUR RESEARCH FOUNDATION CHICAGO IL		12/17/1957	Final rept. 31 May-30 Nov 57.	20			DA-44-009-eng-2890 (DA44009eng2890)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; Other requests must be referred to Cdr., USA Belvoir R&D Ctr., Attn: STRBE-S, Ft. Belvoir, VA 22060.	U - Unclassified
Study Of Temperature-dependent Properties Of Matter.	ADB956211	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Johnson,G. L.	11/30/1959	Final rept. no. 18, 30 Aug 58-31 Oct 59,	40	ARF-3138-18 (ARF313818)		DA-44-009-eng-3763 (DA44009eng3763)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Cdr, US Army Engineer Topographic Labs., Fort Belvoir, VA 22060, 25 May 84 or higher DoD authority.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Engine Generator Tests 15 Kw - 400 Cps.	ADB956336	ARMOUR RESEARCH FOUNDATION CHICAGO IL		5/13/1953	Rept. no. 3.	63			DA-44-009-eng-556 (DA44009eng556)	E - 04 - DOD ONLY	Distribution limited to DoD and DoD contractors only; Critical Technology; 17 Apr 84. Other requests must be referred to Cdr, USA Belvoir R&D Ctr., Attn: STRBE-S, Fort Belvoir, VA 22060.	U - Unclassified
A Study Of Silencing Problems Connected With Small Air-cooled Gasoline Engines.	ADB956360	ARMOUR RESEARCH FOUNDATION CHICAGO IL		6/6/1955	Final rept.	48	TR-2 (TR2)		DA-44-009-ENG-2081 (DA44009ENG2081)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Commander, US Army Belvoir R&D Center, Attn: STRBE-S. Fort Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research On Infrared Sensitive Photoconductors .	ADB956364	ARMOUR RESEARCH FOUNDATION CHICAGO IL		10/7/1952	Formal rept. no. 1.	15			DA-44-009-ENG-1416 (DA44009ENG1416)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Dir., US Army Night Vision Labs., Ft. Belvoir, VA 22060; 17 May 84 or higher DoD authority.	U - Unclassified
Research On Infrared Photosensitive Semiconductors.	ADB956378	ARMOUR RESEARCH FOUNDATION CHICAGO IL		12/18/1953	Formal rept. no. 7, 1 Oct-30 Nov 53.	18			DA-44-009-ENG-1416 (DA44009ENG1416)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Director, US Army Night Vision Labs., Fort Belvoir, VA 22060, 17 May 84, or higher DoD authority.	U - Unclassified
Investigation Of Circuits Of The An/prs-3 Mine Detector.	ADB956398	ARMOUR RESEARCH FOUNDATION CHICAGO IL		3/13/1952	Final rept.	13			DA-44-009-eng-928 (DA44009eng928)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to CDR, US Army Belvoir R&D CTR, Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research On Infrared Sensitive Photoconductors .	ADB956431	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Johnson,G. L., Tompkins,E. H.	8/28/1953	Formal rept. no. 6,	25			DA-44-009-eng-1416 (DA44009eng1416)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Dir., US Army Night Vision Labs., Ft. Belvoir, VA 22060, 17 May 84 or higher DoD authority.	U - Unclassified
Research On Infrared Photosensitive Semiconductors.	ADB956464	ARMOUR RESEARCH FOUNDATION CHICAGO IL		3/1/1954	Formal rept. no. 8,	24			DA-44-009-eng-1416 (DA44009eng1416)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Dir, US Army Night Vision Labs., Fort Belvoir, VA 22060; 17 May 84 or higher DoD authority.	U - Unclassified
Studies, Research, And Investigations To Evaluate The Feasibility Of Locating Buried Nonmetallic Land Mines By Detecting The Disturbance Of The Soil,	ADB956493	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Siegel,S., Humphreys,R. F.	8/31/1950		19	1 (1)		W-44-009-ENG-525 (W44009ENG525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Commander, Army Belvoir R&D Center, Attn; STRBE-S. Fort Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles.	ADB956494	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Beynon,J. C., Siegel,S., Barthel,C. E. , Jr	8/15/1949	Rept. for Jun-Jul 49,	6	20 (20)		W-44-009-ENG-525 (W44009ENG525 )	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Commander, US Army Belvoir R&D Center, Attn: STRBE-S. Fort Belvoir, VA 22060.	U - Unclassified
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles,	ADB956495	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Beynon,J. C., Siegel,S., Barthel,C. E. , Jr	9/4/1948		8	13 (13)		W-44-009-ENG-525 (W44009ENG525 )	E - 04 - DOD ONLY	Distribution limited to DoD only;Critical Technology;1 May 84. Other requests must be referred to Commander, US Army Belvoir R&D Center, Attn: STRBE-S. Fort Belvoir, VA 22060	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Studies, Research, And Investigation On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles. Supplement.	ADB956498	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Barthel,C. E. , Jr., Beynon,J. C., Siegel,S., Miller,J. J.	2/15/1949	Preliminary rept.,	6	ARF-90-547-A-SUPPL (ARF90547ASUPPL)		W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Commander, US Army Belvoir R&D Center, Attn: STRBE-S, Fort Belvoir, VA 22060.	U - Unclassified
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles,	ADB956505	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Barthel,C. E. , Jr., Beynon,J. C., Siegel,S., Carlson,G., Miller,J. J.	8/4/1948		16	ARF-90-547-A-12 (ARF90547A12)		W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Commander, US Army Belvoir R&D Center, Attn: STRBE-S, Fort Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles.	ADB956510	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Beynon,J. C., Siegel,S., Carlson,G., Barthel,C. E. , Jr	3/1/1948	Memorandum rept.,	4	ARF-90-547-A-8 (ARF90547A8)			E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Cdr, US Army Belvoir R&D Ctr., Attn: STRBE-S, Fort Belvoir, VA 22060.	U - Unclassified
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles.	ADB956511	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Barthel,C. E. , Jr., Beynon,J. C., Miller,J. J., Siegel,S.	10/13/1948	Memorandum rept.,	13	ARF-90-547-A-14 (ARF90547A14)		W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Cdr, US Army Belvoir R&D Ctr., Attn: STRBE-S, Fort Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles.	ADB956512	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Siegel,S., Carlson,G., Leedy,H. A.	2/8/1948	Memorandum rept.,	4	ARF-90-547-A-6 (ARF90547A6)		W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Cdr, US Army Belvoir R&D Ctr., Attn: STRBE-S, Fort Belvoir, VA 22060.	U - Unclassified
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles.	ADB956513	ARMOUR RESEARCH FOUNDATION CHICAGO IL		6/30/1949	Final rept. Mar-30 Jun 49,	62	ARF-90-547-A-FR (ARF90547AFR)		W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Cdr, US Army Belvoir R&D Ctr., Attn: STRBE-S, Fort Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles.	ADB956547	ARMOUR RESEARCH FOUNDATION CHICAGO IL		12/8/1947		31	4 (4)		W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to CDR, US Army Belvoir R&D Ctr, Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles,	ADB956549	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Beynon,J. C., Siegel,S.	7/8/1948		6	11 (11)		W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to CDR, US Army Belvoir R&D Ctr, Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles.	ADB956555	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Barthel,C. E. , Jr., Beynon,J. C., Siegel,S.	11/13/1948	Memorandum rept.,	3	MR-15 (MR15)		W-44-009-ENG-525 (W44009ENG525 )	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Commander, US Army Belvoir R&D Center, Attn: STRBE-S. Fort Belvoir, VA 22060.	U - Unclassified
Studies, Research And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles.	ADB956556	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Barthel,C. E. , Jr., Beynon,J., Carlson,G., Siegel,S.	5/1/1948	Interim rept.,	13	9 (9)		W-44-009-ENG-525 (W44009ENG525 )	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; Other requests must be referred to Commander, US Army Belvoir R&D Center, Attn: STRBE-S. Fort Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles.	ADB956558	ARMOUR RESEARCH FOUNDATION CHICAGO IL		3/8/1948		21	7 (7)		W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology;1 May 84. Other requests must be referred to Cdr. US Army Belvoir R&D Ctr. Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified
Studies, Research And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles,	ADB956559	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Siegel,S., Leedy,H. A., Carlson,G.	1/8/1948		11	5 (5)		W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests s must be referred to Cdr., US Army Belvoir R&D Ctr. Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Studies, Research, And Investigation On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles.	ADB956562	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Beynon,J. C., Miller,J., Siegel,S., Barthel,C. E. , Jr	12/8/1948	Memorandum rept.,	3	16 (16)		W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distrilbution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Cdr., US Army Belvoir R&D Ctr., Attn: STRBE-S. Ft. Belvoir, vA 22060.	U - Unclassified
Phase Diagrams Of The Titanium-aluminum, Titanium-chromium-iron, And Titanium-oxygen Alloy Systems.	ADB956593	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kessler,H. D., Hansen,M.	11/5/1951	Rept. no. 5, 16 Jul-15 Sep 51,	38	11 (11)		AF 33(038)-8708 (AF330388708)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/O perational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Phase Diagrams Of The Titanium-aluminum, Titanium-chromium-iron, And Titanium-oxygen Alloy System.	ADB956596	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kessler,H. D., Hansen,M.	8/3/1951	Rept. no. 4, 16 May-15 Jul 51,	42	10 (10)		AF 33(038)-8708 (AF330388708)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles.	ADB956672	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Beynon,J. C., Siegel,S., Humphreys,R. F.	10/15/1949	Rept. for Aug-Sep 49,	5			W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Commander, US Army Belvoir R&D Center, Attn: STRBE-S. Fort Belvoir, VA 22060.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Titanium Phase Diagrams: Phase Diagrams Of The Titanium-aluminum, Titanium-chromium-iron, And Titanium-oxygen Alloy Systems.	ADB956691	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kessler,H. D., Hansen,M., Lubker,R. A.	2/12/1951	Rept. no. 1, 15 Nov 50-15 Jan 51,	31	ARF-90-773-B-7 (ARF90773B7)		AF 33(038)-8708 (AF330388708)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified
Exploration Of Vanadium-base Alloys.	ADB956692	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rostoker,W., McPherson,D. J., Hansen,M.	2/29/1952	Quarterly rept. no. 4, 9 Nov 51-8 Feb 52,	28	ARF-90-774-B-11 (ARF90774B11)		AF 33(038)-8517 (AF330388517)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Exploration Of Vanadium-base Alloys.	ADB956694	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wilson,W. , Jr., Hansen,M.	6/20/1951	Quarterly rept. no. 1,	10	ARF-90-774-B-8 (ARF90774B8)		AF 33(038)-8517 (AF330388517)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified
Titanium Phase Diagrams.	ADB956695	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kessler,H. D., McPherson,D. J., Hansen,M.	4/17/1952	Rept. for 16 Jan-15 Mar 52,	16	ARF-90-773-B-14 (ARF90773B14)		AF 33(038)-8708 (AF330388708)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Exploration Of Vanadium-base Alloys.	ADB956705	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wilson,W. , Jr.	9/4/1951	Quarterly rept. no. 2, 8 May-8 Aug 51,	44	ARF-90-774-B-9 (ARF90774B9)		AF 33(038)-8517 (AF330388517)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified
Research And Development On The Phase Diagrams Of The Ti-mo, Ti-cb, And Ti-si Alloy Systems.	ADB956706	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kessler,H. D., Hansen,M.	7/11/1950	Research rept. 1 May-30 Jun 50,	36	ARF-90-773-B-4 (ARF90773B4)		AF 33(038)-8708 (AF330388708)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research And Development On The Phase Diagrams Of The Ti-mo, Ti-cb, And Ti-si Alloy Systems.	ADB956707	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kessler,H. D., Hansen,M.	9/20/1950	Research rept. 1 Jul-30 Aug 50,	53	ARF-90-773-B-5 (ARF90773B5)		AF 33(038)-8708 (AF330388708)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright Patterson AFB, OH 45433.	U - Unclassified
Studies, Research, And Investigations On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles. Addendum.	ADB956709	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Beynon,J. C., Siegel,S., Humphreys,R. F.	10/31/1949	Final rept.,	137			W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Commander, US Army Belvoir R&D Center, Attn: STRBE-S. Fort Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Phase Relationships In Magnesium-lithium-aluminum Alloys.	ADB956712	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Levinson,D. W., McPherson,D. J., Hansen,M.	11/13/1952	Interim technical rept. no. 1,	17			DA-11-022-ORD-906 (DA11022ORD906)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Critical Technology; 26 Jun 84. Other requests must be referred to Commander, Army Armament Research and Development Center, Attn: DRSMC-TSS-D. Dover, NJ 07801.	U - Unclassified
Detection Of Buried Explosives By Magnetic Means.	ADB956713	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Sizer,M. A., Barthel,C. E. , Jr., Wiegand,D. E.	9/30/1949	Final rept.,	177	15 (15)		W-44-009-eng-487 (W44009eng487)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Commander, US Army Belvoir R&D Center, Attn: STRBE-S. Fort Belvoir, VA 22060. Availability: Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Recrystallization Welding Of Aluminum Aircraft Alloys.	ADB956727	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Conmy,T. F., Parks,J. M.	11/15/1951	Final rept.,	28	ARF-90-864-B-F (ARF90864BF)			C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified
Titanium Phase Diagrams. Phase Diagrams Of The Titanium-aluminum, Titanium-chromium-iron, And Titanium-oxygen Alloy Systems.	ADB956729	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kessler,H. D., Hansen,H.	6/11/1951	Rept. no. 3, 16 Mar-15 May 51,	32	ARF-90-773-B-9 (ARF90773B9)		AF 33(038)-8708 (AF330388708)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Titanium Phase Diagrams. Phase Diagrams Of The Titanium-aluminum, Titanium-chromium-iron, And Titanium-oxygen Alloy Systems.	ADB956730	ARMOUR RESEARCH FOUNDATION CHICAGO IL		4/12/1951	Rept. no. 2, 16 Jan-15 Mar 51.	26	ARF-90-773-B-8 (ARF90773B8)		AF 33(038)-8708 (AF330388708)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified
Titanium Phase Diagrams.	ADB956731	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kessler,H. D., McPherson,D. J.	3/7/1952	Rept. for 16 Nov 51-15 Jan 52,	15	ARF-90-773-B-13 (ARF90773B13)		AF 33(038)-8708 (AF330388708)	C - 02 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution limited to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 Jun 84. Other requests must be referred to Commander, AFWAL/GLIST, Wright-Patterson AFB, OH 45433.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research On Disturbed Earth For Detection Of Buried Nonmetallic Mines.	ADB956840	ARMOUR RESEARCH FOUNDATION CHICAGO IL		9/12/1951	Rept. no. 14 (Final).	62			DA-44-009-eng-167 (DA44009eng167)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to Cdr., US Army Belvoir R&D Ctr., Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified
Engine Generator Tests On 15 Kw - 60 Cps Cycle Engine-generator,	ADB956877	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Corrigan,D. T., Petersen,C. C.	1/9/1953		53	2 (2)		DA-44-009-eng-556 (DA44009eng556)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 17 Apr 84. Other requests must be referred to CDR, USA Belvoir R&D Ctr, Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Engine Generator Tests 15kw-400 Cycles Sn R 11418 And Sn R 11419. Supplement 1.	ADB956886	ARMOUR RESEARCH FOUNDATION CHICAGO IL		1/1/1954		33			DA-44-009-eng-556 (DA44009eng556)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 17 Apr 84. Other requests must be referred to Cdr., USA Belvoir R&D Ctr., Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified
Engine Generator Tests 15kw-60 Cycles Snr11421. Supplement 2.	ADB956904	ARMOUR RESEARCH FOUNDATION CHICAGO IL		3/24/1954		26	ARF-90-1024E-2 (ARF901024E2)		DA-44-009-ENG-556 (DA44009ENG556)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 17 Apr 84. Other requests must be referred to Commander, USA Belvoir R&D Center, Attn: STRBE-S, Fort Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Engine Generator Environmental Tests 15 Kw - 60 Cycles. Supplement.	ADB956917	ARMOUR RESEARCH FOUNDATION CHICAGO IL		5/7/1953		12	ARF-90-1024E-2-SUPPL (ARF901024E2SUPPL)		DA-44-009-eng-556 (DA44009eng556)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 17 Apr 84. Other requests must be referred to Cdr, USA Belvoir R&D Center, Attn: STRBE-S, Fort Belvoir, VA 22060.	U - Unclassified
Engine Generator Tests 15kw - D.c. Sn R 11417. Supplement 1.	ADB956929	ARMOUR RESEARCH FOUNDATION CHICAGO IL		1/1/1954	Rept. no. 4.	13			DA-44-009-eng-556 (DA44009eng556)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 17 Apr 84. Other requests must be referred to Cdr., USA Belvoir R&D Ctr., Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
A Survey Of Mine Detection Methods.	ADB956943	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Tyson,J. K., Siegel,S.	3/31/1950	Final rept.,	57			W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to CDR, US Army Belvoir R&D Ctr., Attn: STRBE-S. Ft. Belvoir, VA 22060. Availability: Document partially illegible.	U - Unclassified
A Survey Of Mine Detection Methods.	ADB956944	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Tyson,J. K., Siegel,S.	12/15/1949	Monthly progress rept. no. 5,	8			W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to CDR, US Army Belvoir R&D Ctr., Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
A Survey Of Mine Detection Methods.	ADB956945	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Tyson,J. K., Siegel,S.	10/15/1949	Monthly progress rept. no. 3,	6			W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to CDR, US Army Belvoir R&D Ctr., Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified
A Survey Of Mine Detection Methods.	ADB956947	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Tyson,J. K., Siegel,S.	9/15/1949	Monthly progress rept. no. 2,	18			W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to CDR, US Army Belvoir R&D Ctr., Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
A Survey Of Mine Detection Methods.	ADB956948	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Tyson,J. K., Siegel,S.	8/11/1949	Monthly progress rept. no. 1,	3			W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to CDR, US Army Belvoir R&D Ctr., Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified
Studies Research And Investigation On The Feasibility Of Detecting Buried Explosives By Bombardment With Nuclear Particles,	ADB956949	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Beynon,J. C., Siegel,S.	5/2/1949		11	18 (18)		W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to CDR, US Army Belvoir R&D Ctr., Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Studies, Research, And Investigations To Evaluate The Feasibility Of Locating Buried Nonmetallic Land Mines By Detecting The Disturbance Of The Soil.</b>	ADB957065	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Betz,H. T., Garrison,J., Kubie,W., Reiffel,L.	9/30/1950	Rept. no. 2 (Final),	22			W-44-009-eng-525 (W44009eng525)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to CDR, US Army Belvoir R&D Ctr, Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified
<b>Detection Of Buried Explosives By Magnetic Means.</b>	ADB957190	ARMOUR RESEARCH FOUNDATION CHICAGO IL		11/18/1949	Final rept.	375	27 (27)		W-44-009-eng-487 (W44009eng487)	E - 04 - DOD ONLY	Distribution limited to DoD only; Critical Technology; 1 May 84. Other requests must be referred to CDR, US Army Belvoir R&D Ctr, Attn: STRBE-S. Ft. Belvoir, VA 22060.	U - Unclassified
<b>Research On Infrared Sensitive Photoconductors .</b>	ADB958946	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cook,J. W., Barkley,J. E., Gausebeck,H. B.	9/15/1951	Rept. no. 6 (Final) 11 Aug 50-10 Aug 51,	66	SBI-AD-F560 046 (SBIADF560046)	AD-F560 046 (ADF560046)	DA-44-009-eng-162 (DA44009eng162 )	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Dir, US Army Night Vision Labs., Ft. Belvoir, VA 22060, 17 May 84 or higher DoD authority.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Research And Development Work On Rocket-assist Projectiles; Minutes Of Advisory Committee Meeting Held In Chicago, Illinois On January 11, 1950,	ADB961918	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Jacobs,Kenneth H.	1/25/1950		6			W-11-022-ORD-11284 (W11022ORD11284)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Interior Ballistics For Recoilless Rifles, Nozzle Erosion Studies, And Brittle Material Method For Stress Analysis.	ADB961959	ARMOUR RESEARCH FOUNDATION CHICAGO IL		2/28/1950	Rept. no. 2.	30				C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Research On Lightweight Cartridge Cases (combustible).	ADB961961	ARMOUR RESEARCH FOUNDATION CHICAGO IL		7/18/1951	Formal rept. no. 1.	25			W-11-022-ORD-58 (W11022ORD58)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
Camp Detrick Automatic Counting And Sizing Of Aerosols.	ADB962535	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Alexander, N. E.	3/10/1953	Monthly progress rept. no. 15, 10 Feb-10 Mar 53,	41			DA-18-064-cml-1904 (DA18064cml1904)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution: DTIC users only. Document partially illegible.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Operational Testing And Personnel Training In Use Of Aerosoloscope.</b>	ADB962542	ARMOUR RESEARCH FOUNDATION CHICAGO IL		12/20/1953	Monthly progress rept. no. 1, 16 Nov-20 Dec 53.	4			DA-18-064-cml-2456 (DA18064cml2456)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Research On Infrared Sensitive Photoconductors .</b>	ADB962543	ARMOUR RESEARCH FOUNDATION CHICAGO IL		12/1/1953	Monthly technical repts. 7 and 8, Oct-Dec 53.	7			DA-44-009-eng-1416 (DA44009eng1416)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Pilot Production Of Promising Elevated Temperature Titanium-base Alloys.</b>	ADB962544	ARMOUR RESEARCH FOUNDATION CHICAGO IL		8/11/1953	Progress repts. 2, 3, 1 Jun-31 Jul 53.	7			AF 33(616)-2060 (AF336162060)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Pilot Production Of Promising Elevated Temperature Titanium-base Alloys.</b>	ADB962545	ARMOUR RESEARCH FOUNDATION CHICAGO IL		1/31/1954	Progress rept. no. 8, 1 Dec 53-31 Dec 53.	4			AF 33(616)-2060 (AF336162060)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Titanium Alloys For Elevated Temperature Application.</b>	ADB971225	ARMOUR RESEARCH FOUNDATION CHICAGO IL		4/8/1953	Quarterly rept. no. 7.	27	R-605-225-SR-3C (R605225SR3C)	WADC (WADC)	AF-33(038)-22806 (AF3303822806)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified
<b>Titanium Alloys For Elevated Temperature Application.</b>	ADB971383	ARMOUR RESEARCH FOUNDATION CHICAGO IL		12/30/1952	Quarterly rept. no. 6, 1 Sep-30 Nov 52.	36	R-605-225-SR-3C (R605225SR3C)	WADC (WADC)	AF33(038)-22806 (AF3303822806)	C - 12 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Distribution: DTIC users only.	U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Countermeasures Flare Directory.</b>	ADC004283	IIT RESEARCH INST CHICAGO IL	Ase, P. K., Katz, Sidney, Majewski, E., Raisen, Elliott	9/1/1975	Technical rept. 1 Aug 73-31 Oct 74,	562	IITRI-E6272-F5 (IITRIE6272F5), AFAL-TR-74-324 (AFALTR74324)	TR-74-324 (TR74324)	F33615-73-C-4089 (F3361573C4089)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	distribution: further dissemination only as directed by controlling dod office, or higher dod authority.	U - Unclassified
<b>Proceedings Of The Second Echelon Armor Interdiction Symposium. Volume 1. Open Sessions.</b>	ADC027022	TACTICAL WEAPON GUIDANCE AND CONTROL INFORMATION AND ANALYSIS CENTER CHICAGO IL		5/1/1979		386			DSA900-77-C-3840 (DSA90077C3840)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by the U.S. Army Missile Command, Attn: AMSMI-RD-CS-T. Redstone Arsenal, AL 35898 or higher DoD authority.	S - Secret
<b>Proceedings Of The Second Echelon Armor Interdiction Symposium. Volume 2. Closed Sessions.</b>	ADC027023	TACTICAL WEAPON GUIDANCE AND CONTROL INFORMATION AND ANALYSIS CENTER CHICAGO IL		5/1/1979		310			DSA900-77-C-3840 (DSA90077C3840)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by the U.S. Army Missile Command, Attn: DRSMI-RN via DRSMI-RPT. Redstone Arsenal, AL 35898 or higher DoD authority.	S - Secret

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Tri-service Seeker Technology Tasks.	ADC031250	TACTICAL WEAPONS GUIDANCE AND CONTROL INFORMATION ANALYSIS CENTER CHICAGO IL		3/1/1983	2ND EDITION.	90	GACIAC-SR-83-04 (GACIACSR8304)		DLA900-80-C-2853 (DLA90080C2853)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by GACIAC, IIT Research Institute, 10 West 35th Street, Chicago,IL 60616	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Proceedings Of The Workshop On Detection, Discrimination And Classification Of Targets In Clutter. Held In Huntsville, Alabama On 13-15 November 1990. Volume 2. Classified Papers,	ADC049888	TACTICAL WEAPONS GUIDANCE AND CONTROL INFORMATION ANALYSIS CENTER CHICAGO IL	Pittman, Bill	7/1/1991		166	GACIAC-PR-90-05-VOL-2 (GACIACPR9005VOL2)	AMSMI (AMSMI)	DLA900-86-C-0022 (DLA90086C0022)	D - 16 - DOD AND DOD CONTRACTORS ONLY, X - 57 - EXPORT CONTROL	DISTRIBUTION AUTHORIZED TO DOD AND DOD CONTRACTORS ONLY CRITICAL TECHNOLOGY FOREIGN GOV'T. INFO. 13 NOV 90 OTHER REQUESTS SHALL BE REFERRED TO COMMANDER US ARMY MISSILE COMMAND ATTN AMSMI-SW REDSTONE ARSENAL AL 35898-5222. GACIAC IIT RESEARCH INSTITUTE 10 WEST 35TH STREET CHICAGO IL 60616-3799. NO COPIES FURNISHED BY DTIC. THIS DOCUMENT	S - Secret

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC051508	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wunder, F. R., Bobco, W. D.	6/2/1953	Rept. no. 2,	9		OCO (OCO)	DA-11-022-ORD-1191 (DA11022ORD1191)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling office: Office of Chief of Ordnance, Artillery Branch, Dept. of the Army, Washington, DC.	C - Confidential
	ADC051509	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wunder, F. R., Bobco, W. D.	6/15/1953	Rept. no. 3,	11		OCO (OCO)	DA-11-022-ORD-1191 (DA11022ORD1191)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling office: Office of Chief of Ordnance, Artillery Branch, Dept. of the Army, Washington, DC.	C - Confidential
	ADC051511	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wunder, F. R., Bobco, W. D.	9/22/1953	Rept. no. 6,	17		OCO (OCO)	DA-11-022-ORD-1191 (DA11022ORD1191)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling office: Office of Chief of Ordnance, Artillery Branch, Dept. of the Army, Washington, DC.	C - Confidential
	ADC051512	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wunder, F. R., Bobco, W. D.	11/16/1953	Rept. no. 8,	7		OCO (OCO)	DA-11-022-ORD-1191 (DA11022ORD1191)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling office: Office of Chief of Ordnance, Artillery Branch, Dept. of the Army, Washington, DC.	C - Confidential

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	ADC051513	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wunder, F. R., Bobco, W. D.	8/14/1953	Rept. no. 5,	7		OCO (OCO)	DA-11-022-ORD-1191 (DA11022ORD1191)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling office: Office of Chief of Ordnance, Artillery Branch, Dept. of the Army, Washington, DC.	C - Confidential
	ADC051514	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wunder, F. R., Bobco, W. D.	1/4/1954	Rept. no. 9,	15		OCO (OCO)	DA-11-022-ORD-1191 (DA11022ORD1191)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling office: Office of Chief of Ordnance, Artillery Branch, Dept. of the Army, Washington, DC.	C - Confidential
	ADC051515	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wunder, F. R., Bobco, W. D.	1/19/1954	Rept. no. 10,	39		OCO (OCO)	DA-11-022-ORD-1191 (DA11022ORD1191)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling office: Office of Chief of Ordnance, Artillery Branch, Dept. of the Army, Washington, DC.	C - Confidential
	ADC051516	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wunder, F. R., Bobco, W. D.	3/11/1954	Rept. no. 12,	8		OCO (OCO)	DA-11-022-ORD-1191 (DA11022ORD1191)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling office: Office of Chief of Ordnance, Artillery Branch, Dept. of the Army, Washington, DC.	C - Confidential

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	ADC051517	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wunder, F. R., Bobco, W. D.	4/8/1954	Rept. no. 13,	13		OCO (OCO)	DA-11-022-ORD-1191 (DA11022ORD1191)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling office: Office of Chief of Ordnance, Artillery Branch, Dept. of the Army, Washington, DC.	C - Confidential
	ADC053381	ARMOUR RESEARCH FOUNDATION CHICAGO IL		8/21/1951	Rept. no. 12.	8		NAVORD (NAVORD)	DA-11-022-ORD-7 (DA11022ORD7)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC053391	ARMOUR RESEARCH FOUNDATION CHICAGO IL		11/20/1951	Memorandum rept. no. 15.	16		OCO (OCO)	DA-11-022-ORD-7 (DA11022ORD7)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling Office: Office of Chief of Ordnance, Washington, DC.	C - Confidential
	ADC053393	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Pinsky, J., DeMuth, F., Cramer, W. F.	4/9/1951	Memorandum rept. no. 15,	25		OCO (OCO)	DA-11-022-ORD-7 (DA11022ORD7)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling Office: Office of Chief of Ordnance, Washington, DC.	C - Confidential
	ADC053397	ARMOUR RESEARCH FOUNDATION CHICAGO IL		8/2/1950	Rept. no. 50.	5		OCO (OCO)	W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling Office: Office of Chief of Ordnance, Washington, DC.	C - Confidential
	ADC053399	ARMOUR RESEARCH FOUNDATION CHICAGO IL		9/10/1951	Rept. no. 13.	21		OCO (OCO)	DA11-022-ORD-7 (DA11022ORD7)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling Office: Office of Chief of Ordnance, Washington, DC.	C - Confidential

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	ADC054303	ARMOUR RESEARCH FOUNDATION CHICAGO IL		10/8/1951	Final rept.	86		OCO (OCO)		C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling Office: Office of the Chief of Ordnance, Washington, DC.	C - Confidential
	ADC054318	ARMOUR RESEARCH FOUNDATION CHICAGO IL		12/16/1954	Rept. no. 28, 1-30 Nov 54.	16	ARF-K038 (ARFK038)	SA (SA)	DA-11-022-ORD-824 (DA11022ORD824)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling Office: Springfield Armory, Springfield, MA.	C - Confidential
	ADC054322	ARMOUR RESEARCH FOUNDATION CHICAGO IL		11/17/1954	Rept. no. 28.	22		FA (FA)	DA-11-022-ORD-865 (DA11022ORD865)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling Office: Frankford Arsenal, Philadelphia, PA.	C - Confidential
	ADC054323	ARMOUR RESEARCH FOUNDATION CHICAGO IL		12/15/1954	Rept. no. 21, 15 Nov-15 Dec 54.	8	ARF-K030 (ARFK030)	WADC (WADC)	AF33(600)-9417 (AF336009417)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling Office: Wright Air Development Center, Wright-Patterson AFB, OH.	C - Confidential
	ADC054516	ARMOUR RESEARCH FOUNDATION CHICAGO IL		3/19/1952	Memorandum rept. for period ending Jan 52.	38	TR-18 (TR18)	OCO (OCO)	DA-11-022-ORD-7 (DA11022ORD7)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling Office: Office of the Chief of Ordnance, Washington, DC.	C - Confidential
	ADC054931	ARMOUR RESEARCH FOUNDATION CHICAGO IL		7/9/1951	Final rept.	49		DA (DA)	DA11-022-ORD-82 (DA11022ORD82)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling Office: Dept. of the Army, Chicago Ordnance District, Chicago, IL.	C - Confidential

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	ADC060397	ARMOUR RESEARCH FOUNDATION CHICAGO IL		11/1/1951	Rept. no. 1 for Aug-Sep 51.	19		OCO (OCO)	DA-11-022-ORD-273 (DA11022ORD273)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Office of Chief of Ordnance, Dept. of the Army, Washington, DC 20310, Feb 98 or higher DoD authority.	C - Confidential
	ADC063053	ARMOUR RESEARCH FOUNDATION CHICAGO IL		9/30/1953	Rept. no. 14	6		AFMC (AFMC)	AF 33(616)-166 (AF33616166)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Air Materiel Comd., Wright-Patterson AFB, OH 45433 (Sep 53) or higher DoD authority.	S - Secret



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An Analysis Of The Impact Of Cis Mk Xv Emissions On A C-band Radar System	ADC070062	ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPOLIS MD	Barton, Michael A.	12/1/1981	Consulting rept.	47	ECAC-CR-81-147 (ECACCR81147)	ASD (ASD)	F19628-80-C-0042 (F1962880C0042)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; Dec 1981. Other requests shall be referred to Aeronautical Systems Division, Attn: AEI, Wright-Patterson AFB, OH 45433.	S - Secret
Emc Cosite Analysis Of The Line-of-sight Task Force Communication System On The Tases Aircraft	ADC070353	ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPOLIS MD	Nanda, Ved	7/1/1977	Final rept.	57	ECAC-PR-77-041 (ECACPR77041)	NAVELEX (NAVELEX)	F19628-76-C-0017 (F1962876C0017)	B - 03 - U.S. GOVT. ONLY	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; Jul 1977. Other requests shall be referred to Naval Electronic Systems Comd., Washington, DC 20360.	S - Secret

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	ADC076041	ARMOUR RESEARCH FOUNDATION CHICAGO IL		9/18/1956		25	RFP-3-29-1429 (RFP3291429)	USAF (USAF)	AF 33(038)16714 (AF3303816714), AF 33(616)2709 (AF336162709)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; SEP 1956. Other requests shall be referred to Commanding Officer, FTKR, ATTN: FTKR-2, Edwards AFB, CA 93523. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential
Phib Boat Rada Interference Analysis	ADC078017	ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPOLIS MD	Walcoff, P., Neham, E.	6/1/1968	Project rept.	37	ECAC-STP-118 (ECACSTP118)	ECAC (ECAC)	F19628-68-C-0130 (F1962868C0130)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED	Distribution: Further dissemination only as directed by Electromagnetic Compatibility Analysis Center, Annapolis, MD 21402, JUN 1968, or higher DoD authority.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC078210	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hooper, D., Smith, R. E., Beaudry, W. A., Brach, R. M., Hughes, R. T., Kinnavy, M. G., Laski, W. V., Lolli, J. R.	8/1/1957	Rept. for 1 Jul-31 Aug 1957	18	1 (1)	RA (RA)	DA-11-022-ORD-2543 (DA11022ORD2543), DA-11-022-506-ORD-2390 (DA11022506ORD2390)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; AUG 1957. Other requests shall be referred to Redstone Arsenal, ATTN: ORDDW-MKP, Huntsville, AL 35898. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential

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Radio Set Analysis (xa-1) Against Ground-based Radar	ADC078227	ARMY ELECTRONIC PROVING GROUND FORT HUACHUCA AZ		4/1/1957	Edmund T. /Bullock ;H. McD. /Brown	23	USAEPG-SIG-920-84 (USAEPGSIG92084)	AEPG (AEPG)	DA-36-039 SC-67463 (DA36039SC67463)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; APR 1957. Other requests shall be referred to U.S. Army Electronic Proving Ground, ATTN: Plans and Operations Div., Technical Program Operations, Fort Huachuca, AZ 85613.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC078530	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W., Gartner, R., McFadden, W.	9/15/1956		20	ARF-D077(M035)-50 (ARFD077M03550)	RSA (RSA)	DA-11-022-ORD-1030 (DA11022ORD1030)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; SEP 1956. Other requests shall be referred to Army Missile Command, Redstone Arsenal, AL 35809. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC078543	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. F., Gartner, R. F., Jeslis, J., McFadden, W. E.	10/15/1956	Rept. no. 51, 15 Sep-15 Oct 1956	13	ARF-D077-(M035)-51 (ARFD077M03551)	AMSAM (AMSAM)	DA-11-022-ORD-1030 (DA11022ORD1030)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; OCT 1956. Other requests shall be referred to Army Missile Command, Redstone Arsenal, AL 35809. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC079579	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hoover, D., Laski, W. V., Lolli, J. R., Palmquist, W. E., Smith, R. E.	5/15/1957	Rept. no. 58, 15 Apr-15 May 1957	16	ARF-D077 (ARFD077)	RA (RA)	DA-11-022-ORD-1030 (DA11022ORD1030)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; MAY 1957. Other requests shall be referred to Army Missile Command, Redstone Arsenal, AL 35809. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC079616	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Herkes, D., Hooper, D., Lolli, J. R., Palmquist, W. E., Smith, R. E.	4/15/1957	Rept. no. 57, 15 Mar-15 Apr 1957	18		RA (RA)	DA-11-022-ORD-1030 (DA11022ORD1030)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; APR 1957. Other requests shall be referred to Army Missile Command, Redstone Arsenal, AL 35809. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential



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	ADC079754	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. F., Gartner, R., McFadden, W., Pinsky, J., Jeslis, J., Okubo, S.	11/1/1956	Rept. no. 52, 15 Sep-15 Nov 1956	24	ARF-D077(M035) (ARFD077M035)	AMSMI (AMSMI)	DA-11-022-ORD-1030 (DA11022ORD1030)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; OCT 1956. Other requests shall be referred to Army Missile Command, Redstone Arsenal, AL 35898. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential

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	ADC079757	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hooper, D., Smith, R. E., Cramer, W. F., Pinsky, J.	3/15/1957	Rept. no. 56, 15 Feb-15 Mar 1957	9	ARF-D077 (ARFD077)	AMSMI (AMSMI)	DA-11-022-ORD-1030 (DA11022ORD1030), DA-11-022-506-ORD-2390 (DA11022506ORD2390)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; MAR 1957. Other requests shall be referred to Army Missile Command, Redstone Arsenal, AL 35809. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC079758	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. F., Jeslis, J., McFadden, W. E., Nagaoka, H. H., Okubo, S., Pinsky, J.	2/15/1957	Rept. no. 55, 15 Jan-15 Feb 1957	8	ARF-D077 (ARFD077)	AMSMI (AMSMI)	DA-11-022-ORD-1030 (DA11022ORD1030), DA-11-022-506-ORD-2390 (DA11022506ORD2390)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; FEB 1957. Other requests shall be referred to Army Missile Command, Redstone Arsenal, AL 35809. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC079759	ARMOUR RESEARCH FOUNDATION CHICAGO IL	McFadden, W. E., Nagaoka, H. H., Okubo, S., Cramer, W. F., Jeslis, J., Pinsky, J.	1/15/1957	Rept. no. 54, 15 Dec 1956-15 Jan 1957	27	ARF-D077 (ARFD077)	AMSMI (AMSMI)	DA-11-022-ORD-1030 (DA11022ORD1030)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; JAN 1957. Other requests shall be referred to Army Missile Command, Redstone Arsenal, AL 35809. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC079760	ARMOUR RESEARCH FOUNDATION CHICAGO IL	McFadden, W. E., Cramer, W. F., Jeslis, J., Nagaoka, H. H., Okubo, S., Pinsky, J.	12/15/1956	Rept. no. 53, 15 Nov-15 Dec 1956	20	ARF-D077 (ARFD077)	AMSMI (AMSMI)	DA-11-022-ORD-1030 (DA11022ORD1030)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; DEC 1956. Other requests shall be referred to Army Missile Command, Redstone Arsenal, AL 35809. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC079963	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Pettiti, Bert E.	8/1/1951	Interim rept.	412		AMC-AF (AMCAF)	AF 33(038)-9761 (AF330389761)	E - 04 - DOD ONLY, 51 - RESTRICTED DATA	Distribution authorized to DoD only; Administrative/Operational Use; AUG 1951. Other requests shall be referred to HQs, Air Materiel Command, Wright-Patterson AFB, OH 45433. Pre-dates formal DoD distribution statements. Treat as DoD only. Restricted Data.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Operation Evaluation Of Electronic Countermeasures Set An/mlq-8(xl-1)	ADC080252	ARMOUR RESEARCH FOUNDATION CHICAGO IL		9/1/1956	Interim rept.	91	AEPG-SIG-920-47 (AEPGSIG92047)	AEPG (AEPG)	DA-36-039-SC-67463 (DA36039SC67463)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; SEP 1956. Other requests shall be referred to Army Electronic Proving Ground, Ft. Huachuca, AZ. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Operational Field Test Plan For Electronic Countermeasures Set An/mlq-8 (xl-1)	ADC080283	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Bowsky, Merle C., Brown, H. M.	8/1/1956	Test plan	74	AEPG-SIG-920-41 (AEPGSIG92041)	SIG-920-41 (SIG92041), AEPG (AEPG)	DA-36-039 SC-67463 (DA36039SC67463)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; AUG 1956. Other requests shall be referred to Army Electronic Proving Ground, Ft. Huachuca, AZ. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential



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	ADC080543	JOHNS HOPKINS UNIV CHEVY CHASE MD OPERATIONS RESEARCH OFFICE		4/1/1951	Quarterly rept. no. 2	77	ORO-S-81 (OROS81)	DA (DA)		E - 04 - DOD ONLY, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Distribution authorized to DoD only; Administrative/Operational Use; APR 1951. Other requests shall be referred to Department of the Army, ATTN: Public Affairs Office, Washington, DC 20310. Pre-dates formal DoD distribution statements. Treat as DoD only. Document partially illegible.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC080710	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Anthony, M. L., Ball, S. A., Cushing, V. J., Fieldhouse, I. B., Kirkland, J. T., Schmidt, L. A., Torres, S., Jacobs, K. H.	4/1/1951	Quarterly rept. number 1, 1 Jul-31 Oct 1950	95	ORO-S-80 (OROS80)	OCPA (OCPA)	P54:37-8-14 (P5437814)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; APR 1951. Other requests shall be referred to Department of the Army, ATTN: Public Affairs Office, Washington, DC 20310. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Operational Field Test Plan For Countermeasures Techniques Used Against Passive Infrared Surveillance Equipment	ADC080758	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Brown, H. M.	9/1/1956	Test plan	34	AEPG-SIG-920-52 (AEPGSIG92052)	SIG-920-52 (SIG92052), AEPG (AEPG)	DA-36-039-SC-67463 (DA36039SC67463)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; SEP 1956. Other requests shall be referred to Army Electronic Proving Ground, Ft. Huachuca, AZ. Pre-dates formal DoD distribution statements. Treat as DoD only.	C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC803275	ARMOUR RESEARCH FOUNDATION CHICAGO IL		8/13/1952	Progress rept. no. 12	5	90-1052J (901052J)	AMC-AF (AMCAF)	AF 33(038)-30029 (AF3303830029)	E - 04 - DOD ONLY	Distribution authorized to DoD only; Administrative/Operational Use; 13 AUG 1952. Other requests shall be referred to Air Force Materiel Command, Wright-Patterson AFB, OH 45433. Pre-dates formal DoD distribution statements. Treat as DoD only.	S - Secret

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Proceedings Of The Mobile Force Cm Workshop 9-12 December 1980.	ADC951404	TACTICAL WEAPON GUIDANCE AND CONTROL INFORMATION AND ANALYSIS CENTER CHICAGO IL		6/1/1981		241	GACIAC-PR-81-01 (GACIACPR8101)		DLA900-80-C-2853 (DLA90080C2853)	F - 05 - FURTHER DISSEMINATION ONLY AS DIRECTED, 21 - JOURNAL ARTICLES - CITATION ONLY	Distribution: Further dissemination only as directed by U.S. Army Missile Command, Attn: DRSMI-RN. Redstone Arsenal, 35898, or higher DoD Authority. Availability: GACIAC IIT Research Institute, 10 West 35th Street, Chicago, IL 60616 (No copies furnished by DTIC). Warning Notice--Sensitive Intelligence Sources and Methods Involved.	S - Secret
	ADC954975	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Smith, Fred B.	6/16/1948	Memorandum rept. no. 24, 1-31 May 48,	18			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
	ADC954976	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. F., Bobco, W. D.	5/17/1949	Memorandum rept. no. 35 for Apr 49,	22			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954978	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. F., Bobco, W. D.	6/16/1949	Memorandum rept. no. 36 for May 49,	25			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954979	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Smith, Fred B.	4/16/1948	Memorandum rept. no. 32, 1-31 Jan 49,	6			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954980	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. F., Bobco, W. D.	2/15/1949	Memorandum rept. no. 32, 1-31 Jan 49,	15			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954981	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. J., Bobco, W. D.	3/31/1949	Memorandum rept. no. 33, 1-28 Feb 49,	19			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954982	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Pinsky,J., Jacobs,K. H.	1/12/1950	Memorandum rept. no. 43 for Dec 49,	10			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954983	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. F., Bobco, W. D.	7/12/1949	Memorandum rept. no. 37 for Jun 49,	17			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential

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	ADC954984	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. F., Smith, Fred B.	12/30/1948	Memorandum rept. no. 30, 1 Nov-3 Dec 48,	23			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954985	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. F., Bobco, W. D.	4/30/1949	Memorandum rept. no. 34 for Mar 49,	23			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954986	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Smith, Fred B.	8/6/1948	Memorandum rept. no. 26, 1-30 Jul 48,	10			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954987	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. J., Smith, Fred B.	10/18/1948	Memorandum rept. no. 28, 1-30 Sep 48,	11			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954988	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. J., Smith, Fred B.	9/12/1949	Memorandum rept. no. 39 for Aug 49,	15			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954989	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Cramer, W. J., Bobco, W. D.	8/18/1949	Memorandum rept. no. 38 for Jul 49,	24			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954996	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Pinsky, J., Jacobs, Kenneth H.	2/8/1950	Memorandum rept. for Jan 50,	12			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential

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	ADC954997	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wassel, E. S., Wintermoyer, E. M.	9/22/1953	Rept. no. 5, Jul-Aug 53,	35			DA-11-022-ORD-1169 (DA11022ORD1169)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC954998	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Pollitt, Erwin P., Kamp, E. A.	12/6/1948		71	4 (4)		W-11-022-ORD-11326 (W11022ORD11326)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955003	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Pollitt, E. P., Kamp, E. A.	3/23/1949	Final rept.,	112			W-11-022-ORD-11326 (W11022ORD11326)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955004	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Pinsky, J., Jacobs, Kenneth H.	3/10/1950	Rept. no. 2 for Feb 50,	22				C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955005	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rosenberg, P., Jacobs, Kenneth H.	10/11/1950	Memorandum rept. no. 15, 1-31 Oct 50,	8			W-11-022-ORD-11337 (W11022ORD11337)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955006	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rosenberg, P., Jacobs, Kenneth H.	10/11/1950	Memorandum rept. no. 14, 1 Aug-30 Sep 50,	16			W-11-022-ORD-11337 (W11022ORD11337)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955007	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rosenberg, P., Jacobs, Kenneth H.	8/15/1950	Memorandum rept. no. 13, 1-30 Jul 50,	9			W-11-022-ORD-11337 (W11022ORD11337)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential



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	ADC955008	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Pinsky, J.	12/31/1948	Rept. no. 5 for 15 Jun 48,	69			W-11-022-ORD-11326 (W11022ORD11326)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955009	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Pinsky, J., Jacobs, Kenneth H.	5/11/1950	Memorandum rept. no. 4 for Apr 50,	12			DA-11-022-ORD-7 (DA11022ORD7)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955010	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wassel, E. S., Wintermoyer, E. M.	7/7/1953	Progress rept. no. 4, May-Jun 53,	55			DA-11-022-ORD-1169 (DA11022ORD1169)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955012	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wassel, E. S., Wintermoyer, E. M.	10/8/1953	Rept. no. 6, 1 Feb-Sep 1953	10		OCO (OCO)	DA-11-022-ORD-1169 (DA11022ORD1169)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY	Controlling DoD Organization: Office of the Chief of Ordnance, Washington, DC.	C - Confidential
	ADC955085	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Bobco, W. D., Lolli, J. R., Stern, R. E., Faccin, S., Nothmann, G.	2/1/1951	Research rept. Aug 50-Feb 51,	59			DA-11-022-ORD-7 (DA11022ORD7)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955086	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Grip, W., Hansen, L. J., Rosenberg, P.	2/7/1951	Research rept. no. 1 for Jan 51,	17			DA-11-022-ORD-67 (DA11022ORD67)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential

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	ADC955087	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kamp, E. A.	4/3/1952		12				C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955088	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wintermoyer, E. M., Kamp, E. A.	1/23/1952	Progress rept. no. 22,	25			DA-11-022-ORD-12 (DA11022ORD12)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955090	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wassel, E. S., Wintermoyer, E. M.	5/15/1953	Rept. nos. 2-3, Mar-Apr 53.	55			DA-11-022-ORD-1169 (DA11022ORD1169)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955218	ARMOUR RESEARCH FOUNDATION CHICAGO IL		1/15/1953	Quarterly rept. no. 6, Nov-Dec 52.	14			NObsr-52441 (NObsr52441)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955230	ARMOUR RESEARCH FOUNDATION CHICAGO IL		3/23/1949	Final rept.	177	9 (9)		W-11-022-ORD-11326 (W11022ORD11326)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955264	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hansen, L. J., Pinsky, J.	2/15/1954	Repts. no. 15/16. Dec 53-Jan 54,	8			NOrd-12883 (NOrd12883)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC955266	ARMOUR RESEARCH FOUNDATION CHICAGO IL		11/11/1949	Monthly rept. nos. 40 & 41, Sep-Oct 49.	34			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential

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	ADC957219	ARMOUR RESEARCH FOUNDATION CHICAGO IL		4/11/1951	Memorandum Rept. no. 8 for period ending Mar 51.	14			DA-11-022-ORD-7 (DA11022ORD7)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC957220	ARMOUR RESEARCH FOUNDATION CHICAGO IL		2/19/1951	Final rept.	106			AF (AF), 33(038)-5200 (330385200)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC957221	ARMOUR RESEARCH FOUNDATION CHICAGO IL		12/24/1949	Memorandum rept. no. 42 for period ending Nov 49.	72			W-11-022-ORD-11174 (W11022ORD11174)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC957224	ARMOUR RESEARCH FOUNDATION CHICAGO IL		11/30/1953	Rept. no. 13.	11			NOrd-12883 (NOrd12883)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC957225	ARMOUR RESEARCH FOUNDATION CHICAGO IL		1/10/1951	Rept. no. 12.	13			DA-11-022-ORD-7 (DA11022ORD7)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC957226	ARMOUR RESEARCH FOUNDATION CHICAGO IL		4/30/1951	Rept. no. 9.	6			DA-11-022-ORD-7 (DA11022ORD7)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential
	ADC957251	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hansen, L. J., Bender, F. K., Poudrier, G. L.	7/13/1954	Bimonthly progress rept. no. 18, Apr-May 54,	19			NOrd-12883 (NOrd12883)	C - 09 - U.S. GOVT. AND U.S. GOVT. CONTRACTORS ONLY		C - Confidential

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Abstract/Objective	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Development Of Temperature-sensing Elements For Jet Engines	AD0003562	ARMOUR RESEARCH FOUNDATION CHICAGO IL	STEVEN, GARY, TROY, W. C.	4/1/1952	The thermoelectric characteristics were determined for the thermocouple MoSi2/Pt and ZrB2/Pt. Instability of emf output disqualifies these combinations from high temperature application in jet engine control. Chromel-alumel thermocouples were fabricated with various shapes of the hot junction. The design was intended to achieve rapid heat transfer from the gas stream to the metal and adequate structural strength of the assembly. Characteristic response times were determined in a hot gas jet with a mass flow rate of 4 lb/sec/ft2. The recorded data represent the interaction of the time sweep on an oscillograph screen with the 63.2% mark of the thermal emf rise. The best response, namely 0.75 second, was obtained from a thermocouple with a butt welded hot junction of thin-wall tubular elements (0.065" OD x 0.005" wall). Vibration test data for this construction were not available for inclusion in this report.	Technical rept.	22	WADC-TR-52-121 (WADCTR52121), WADC-TR52-121 (WADCTR52121)	TR52-121 (TR52121), WADC (WADC)	AF 33(038)-17637 (AF3303817637)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited	U - Unclassified
Phase Diagrams Of The Titanium-aluminum, Titanium-chromium-iron, And Titanium-oxygen Alloy Systems	AD0004087	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Van Thyne, R. J., Bumps, E. S., Kessler, H. D., Hansen, M.	12/1/1952	Partial phase diagrams are presented for the systems titanium-aluminum, titanium-chromium, titanium-iron, titanium-chromium-iron, and titanium-oxygen. All studies are completed except for the titanium-chromium-iron system, which requires further confirmatory work in certain areas.	Summary rept.	96	WADC-TR-52-16 (WADCTR5216)	TR-52-16 (TR5216), WADC (WADC)	AF-33(038)-8708 (AF330388708)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for Public Release; Distribution Unlimited.	U - Unclassified
Aircraft Electrical System Study	AD0004239	ARMOUR RESEARCH FOUNDATION CHICAGO IL	FINISON, H. J., MATSCH, L. W., STRATTON, L. J.	4/1/1952			288	WADC-TR52-49 (WADCTR5249)	TR52-49 (TR5249), WADC (WADC)	AF 33(038)-30511 (AF3303830511)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Design And Construction Of Infrared Receiving Set An/saq - 2 (xn)	AD0008178	ARMOUR RESEARCH FOUNDATION CHICAGO IL	BETZ, H. T.	2/20/1953		Monthly progress rept. no. 14, 1-31 Jan 1953	7		BUSHIPS (BUSHIPS)	NOBSR-52441 (NOBSR52441)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
Determination Of Physical Properties Of Ferrous And Nonferrous Structural Sheet Materials At Elevated Temperatures	AD0042722	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Miller, D. E., Chez, E., Frank, E., Hildebrand, J. B., Nagumo, C., Savage, W. T., Wolf, R. J.	12/1/1953		Technical rept.	219	WADC-TR-6517-PT-3 (WADCTR6517PT3)	TR-6517-PT-3 (TR6517PT3), WADC (WADC)	AF 33(038)-8681 (AF330388681)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

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Investigation Of Noise Generated By Electrical Slip Rings	AD0051055	ARMOUR RESEARCH FOUNDATION CHICAGO IL	FORSTER, GEORGE A.	4/1/1954			1	ASD-TR54 125 (ASDTR54125)	TR54 125 (TR54125)	AF33 616 137 (AF33616137)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Metallurgical Investigation Of Two Soviet 45mm Api-t Projectiles, Fmam 1269 And 2283, And One 45mm Ap Projectile, Fmam 2082a	AD0054382	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	STEVEN,G.	3/31/1955		Technical rept.,	28	TR-8 (TR8), WAL-700/22-2 (WAL700222)	700/22-2 (700222)	DA11 022ORD1438 (DA11022ORD1438)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Axially Symmetric Free Streamline Flow About Tandem Discs - A Thesis,	AD0055167	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Beunauer, Ernest Adolph	1/1/1951			43			N7onr-32910 (N7onr32910)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Studies Of Phase Relationships And Transformation Processes Of Titanium-alloy Systems	AD0056084	ARMOUR RESEARCH FOUNDATION CHICAGO IL	MCPHERSON, DONALD J., ROSTOKER, WILLIAM	10/1/1954			1	ASD-TR54 101 P1 (ASDTR54101P1)	TR54 101 P1 (TR54101P1)	AF33 038 8708 (AF330388708)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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Exploration Of Vanadium-base Alloys	AD0058609	ARMOUR RESEARCH FOUNDATION CHICAGO IL	YAMAMOTO, ALBERT S., ROSTOKER, WILLIAM	1/1/1955	This is the third annual report. The oxidation study on vanadium alloys has been further pursued and the conclusion has been reached that satisfactory oxidation resistance at elevated temperature of vanadium-base alloys cannot be rendered by alloying alone but possibly by electroplating. Major efforts have been directed toward evaluating the elevated temperature tensile and stress-rupture strengths of the alloys under development. Carbon additions have proven beneficial as far as the forgeability is concerned. In certain cases, however, superior tensile ductilities are observed while no effect in stress-rupture behavior results. The current availability of less expensive vanadium-aluminum alloy produced by the alumino-thermic reduction process has promoted a feasibility study of its use. It is found that the alloys made of this are as competitive in mechanical properties as the equivalent alloys based on the very extensive calcium-reduced vanadium metal. A range of alloy compositions containing additions of titanium and aluminum have shown stress-rupture behavior which is as good or marginally better than the best titanium-base alloys.	Annual rept. no. 3, 15 May 1953-14 Jun 1954	78	WADC-TR-52-145 (WADCTR52145), WADC-TR-52-145-PT-3 (WADCTR52145PT3)	TR-52-145-PT-3 (TR52145PT3), WADC (WADC)	AF 33(038)-8517 (AF330388517)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution unlimited	U - Unclassified
Metallurgical Investigation Of Three Cartridges, 30 Mm, Hei (fmam 998) And He (fmam 1941, Fmam 2035) For The German Mk 108 A/c Cannon	AD0066211	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	STEVEN,GARY	6/30/1955		Technical rept,	27	TR-22 (TR22), WAL-700/22-6 (WAL700226)	700/22-6 (700226)	DA11 022ORD1438 (DA11022ORD1438)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Titanium Alloys For Elevated Temperature Application	AD0070025	ARMOUR RESEARCH FOUNDATION CHICAGO IL	CAREW, W.F., CROSSLEY, F.A., MCPHERSON, D.J.	7/1/1955			1	ASD-TR54 278 P2 (ASDTR54278P2)	TR54 278 P2 (TR54278P2)	AF33 038 22806 (AF3303822806)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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Proceedings Of The Conference On Radio Interference Reduction Held At Armour Research Foundation Of Illinois Institute Of Technology, Technology Center, Chicago Illinois, December 7-8, 1954 Sponsored By Signal Corps Engineering Laboratories, Wright Air Development Center, Navy Bureau Of Aeronautics,	AD0076686	IIT RESEARCH INST CHICAGO IL	Albin, A. L., Hoehn, A. J., Sachs, H. M.	1/20/1955			352				A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development Of Titanium-base Alloys For Elevated Temperature Application	AD0102829	ARMOUR RESEARCH FOUNDATION CHICAGO IL	CAREW, WILLIAM F., CROSSLEY, FRANK A., MCPHERSON, DONALD J.	5/1/1956			102	ASD-TR54278 P3 (ASDTR54278P3)	TR54278 P3 (TR54278P3), ASD (ASD)	AF 33(616)-2853 (AF336162853)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
Theoretical Investigations Of Sonic Boom Phenomena	AD0130883	ARMOUR RESEARCH FOUNDATION CHICAGO IL		8/1/1957		Final rept. 1 Jan 56-31 Jul 57.	1	ASD-TR57 412 (ASDTR57412)	TR57 412 (TR57412)	AF33 616 3371 (AF336163371)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development Of Titanium-base Alloys For Elevated Temperature Application	AD0142147	ARMOUR RESEARCH FOUNDATION CHICAGO IL	CROSSLEY, FRANK A., CAREW, WILLIAM F., LEVINSON, DAVID W.	11/1/1957			1	ASD-TR54 278 P4 (ASDTR54278P4)	TR54 278 P4 (TR54278P4)	AF33 616 2853 (AF336162853)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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<b>Filamentary Composite Laminates Subjected To Biaxial Stress Fields</b> lit Research Institute, Technology Center: Chicago, Illinois.	AD0178940	IIT RESEARCH INST CHICAGO ILL		9/20/1971		SIXTH QUARTERLY PROGRESS REPT. 1 JUN-31 AUG 71	27	USAF (USAF)		F33615-70-C-1298 (F3361570C1298)	A - 01 - APPROVED FOR PUBLIC RELEASE	DISTRIBUTION UNLIMITED.	U - Unclassified
<b>Investigation Of Lossy Materials For Low Pass Dissipative Type Filters</b>	AD0218882	ARMOUR RESEARCH FOUNDATION CHICAGO IL	JANOWIAK, R.M.	12/15/1956		Final progress rept. 15 Sep 56-15 Dec 58,	1			DA-36-039-sc-73062 (DA36039sc73062)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Excess Noise In Semiconductors</b>	AD0228634	ARMOUR RESEARCH FOUNDATION CHICAGO IL	BROPHY, JAMES J.	10/22/1959		Summary rept. no. 4, 15 Nov 58-14 Nov 59.	1	ARF-1066 (ARF1066)		Nonr-1800(00) (Nonr1800000)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>A Mechanism For Stress-corrosion Embrittlement</b>	AD0243455	ARMOUR RESEARCH FOUNDATION CHICAGO IL		9/14/1960		Summary rept. 1 Aug 1959-31 Jul 1960	27	ARF-2152-13 (ARF215213)	ONR (ONR)	NONR-2602-00 (NONR260200)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Sound Propagation Near The Earth's Surface As Influenced By Weather Conditions. Part 2.</b>	AD0254670	ARMOUR RESEARCH FOUNDATION CHICAGO IL	BURKHARD, M.D., KARPLUS, H.B., SABINE, H.J.	1/1/1961			1	WADC-TR-57-353-PT-2 (WADCTR57353PT2)	TR-57-353-PT-2 (TR57353PT2), WADC (WADC)	AF33 616 2470 (AF336162470)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Sound Propagation Near The Earth's Surface As Influenced By Weather Conditions. Part 3</b>	AD0254671	ARMOUR RESEARCH FOUNDATION CHICAGO IL	SABINE, H. J., RAELSON, V. J., BURKHARD, M. D.	1/1/1961			60	WADC-TR-57-353-PT-3 (WADCTR57353PT3)	TR-57-353-PT-3 (TR57353PT3), WADC (WADC)	AF 33(616)-5091 (AF336165091)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified



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Sound Propagation Near The Earth's Surface As Influenced By Weather Conditions. Part 4	AD0254672	ARMOUR RESEARCH FOUNDATION CHICAGO IL	SABINE, H. J.	1/1/1961		Technical rept.	33	WADC-TR-57-353-PT-4 (WADCTR57353PT4)	TR-57-353-PT-4 (TR57353PT4), WADC (WADC)	AF 33(616)-5091 (AF336165091)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
Study Of Meteorological Surveillance Observing System	AD0263684	IIT RESEARCH INST CHICAGO ILL	URETZ,E.F.	9/30/1960	No automatic release to Foreign Nationals. DESCRIPTORS: (*Biological warfare agents, Scattering, Viability.) (*Bacterial aerosols, Quality control, Tests, Analysis of variance.) Open-ended Terms: Biological assay. The objective of this test was to compare the aerosol parameters of four lots of BG with those of a reference BG lot. The results of the test indicate that the differences between the lots are not statistically significant. The mean values for the decay rate (DR) and source strength (SS) for each lot are tabulated. The test BG lots are recommended for use in aerosol test procedures. The analyses of variances indicate that there are no significant differences for LDR, QDR, and SS. (AuthorOA-263 6859 AD- >*>Div. 3U (IPSB/H) Armour Research Foundation, Chiago, Ill. QUALIY ASSUANCE TEST OF BG LOT NO. 60-59, 61-12, 61-3, X-768, AND X-769, by Sol Miler. 1961, 12p. inc. tables (Test no. C !<--%) (Contrcts DA 18-064-404-cml-353 and DA 18-064cm-2747) Unclassified report Not releasable to Foreign Nationals. DESCRIPTORS: (*Bacterial aerosols, Quality control, Tests, Test methods.)		1	5125 5 (51255)		DA36 039SC80328 (DA36039SC80328)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Investigation Of Single Energy Gap Solar Cell Material	AD0263861	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Robinson, Robert J.	6/30/1961	Emphasis was placed on forming p-type layers on n-type zone leveled CdTe by vapor diffusion in the recently acquired multiple zone fabrication furnace. Low temperature diffusion fabrication studies were emphasized and it is shown that shallow and deep junctions can be formed at 500 C. Electrical, thermal and optical studies of the n-type base material, and spectral response curves of the completed solar cells are included. Combined optical transmission and spectral response curves show that the absorption coefficient versus wavelength has a slope similar to silicon rather than to GaAs or InP which is favorable. Low temperature fabrication is shown to be possible and is advanced as an argument for CdTe since less fabrication disorder is expected compared to high temperature fabrication. However, the room temperature conversion efficiencies of current CdTe solar cells are still low compared to silicon, but the still early state of the art of CdTe is stressed. Preliminary high temperature photovoltaic experiments tend to confirm the use of CdTe compared to silicon.	Summary rept. no. 2, 1 Jan-30 Jun 1961	49	ARF-1175-10 (ARF117510)	USASRDL (USASRDL)	DA-36-039-SC-87381 (DA36039SC87381), ARPA ORDER-80-61 (ARPAORDER8061)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

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<b>Long Range Study Program Lightweight Artillery Weapon</b>	AD0265514	IIT RESEARCH INST CHICAGO IL	Brach, R. M.	4/1/1961	This study concerned the development of a lightweight artillery weapon launcher which can be transported by helicopter. The prototype no. 3 Launcher, XM70E1, 115mm was instrumented with strain, pressure and displacement gages; these furnished the actual loading and motion of the launcher structure. In addition to certain simple dynamic analyses, a 3-degree-of-freedom, nonlinear mathematical model of the launcher dynamics was derived and programmed for solution on Armour Research Foundation's Univac 1105. The output of the computer program was correlated with experiment and used to study the effect of physical parameter variations. Regions of instability of the launcher motions were shown to exist for burst firings; relationships between component stiffness and damping were found which optimized the launcher response to firing loads, based upon a simple accuracy criterion. Certain design suggestions were evaluated and shown to benefit the accuracy of the launcher. (Author)	Final rept.	251		RIA (RIA)	DA-11-022-ORD-2543 (DA11022ORD2543)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for Public release; Distribution Unlimited	U - Unclassified
<b>Similarity Of Factors Underlying Peer Ratings Of Socially Acceptable, Socially Unacceptable, And Bipolar Personality Traits</b>	AD0266861	AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO	TUPES, ERNEST C., KAPLAN, MARGO RIE N.	6/1/1961	Five well-defined factors were found to underly ratings of personality traits when the traits were expressed in bipolar form (e.g., Cooperative vs Obstructive). The present study investigated the factor structure underlying ratings when the traits were presented with socially acceptable definitions alone (e.g., Cooperative vs Not So); with socially unacceptable definitions alone (e.g., Obstructive vs Not So); as well as in the bipolar form. Five hundred members of the Air Force Command and Staff School Class of 1959 rated each other (in rating groups of 12 to 14 officers) using one or another of three forms designed to obtain bipolar and unipolar ratings. When the three intercorrelation matrices were factor analyzed, five factors emerged from each. These factors appeared to be the same five factors found in previous analyses. It was concluded that the factor structure underlying ratings of personality traits is unaffected by differences in the polarity of AD-266 862 Div. 8, 25, 2U (TIPTP/MFA) Armour Research Foundation, Chicago, Ill. STUDY OF ATMOSPHERIC ELECTRICITY. Quarterly engineering rept. no. 4, 1 Apr-30 June 61, by D. Fryberger. 30 Jun the rating definitions. (Author)		1	ASD-TN61 48 (ASDTN6148)	TN61 48 (TN6148)		A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Measurement Of Thermal Properties</b>	AD0268304	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Fieldhouse, I.B., Lang, J.I.	7/1/1961	The purpose of this investigation has been to measure the thermal Conductivity, specific heat, and linear coefficient of thermal expansion of particular materials.	5 Feb 1959-15 Dec 1960	137	WADD-TR-60-904 (WADDTR60904)	ASD/WPAFB (ASDWPAFB)	AF33(616)-6324 (AF336166324)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

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<b>Toxicology Of Aurin Tricarboxylic Acid And Its Antidotal Effectiveness Against Beryllium</b>	AD0272853	ARMOUR RESEARCH FOUNDATION CHICAGO IL	King, Maurice E.	12/1/1961		Rept. for 1 Mar 1960-31 Aug 1961	32	ARF-3170-6 (ARF31706), ASD-TR-61-674 (ASDTR61674)	TR-61-674 (TR61674), ASD (ASD)	AF 33(616)-6947 (AF336166947)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Research And Development Of Design Concepts For Sealing Applications In Aerospace Vehicle Cabins</b>	AD0274085	ARMOUR RESEARCH FOUNDATION CHICAGO IL	ISLINGER, JOSEPH S.	2/1/1962	bration, Abrasion, Stability, Space environmen tal conditions, Pressure.) (Design of Sealing techniques for Spaceships, Satellite vehicles.) Near absolute sealing techniques are described for small openings, such as for electrical conductors, and hatches in the walls of flight vehicle cabins. The need for absolute sealing stems from the requirement of a habitable environment in such vehicles for as long as one year under differential pressure and temperature extremes from -100 to +500 F. Considerations underlying selection of suitable seal materials for resistance to space environment are discussed. The mechanical design and material factors are also discussed. Investigations concerned with effect of elastomer permeability upon seal behavior and with techniques for sealing electrical wires and cables are described. Concepts for the four sealing applications considered are described. Recommendations are made regarding actual sealing concepts. (Author)	Rept. for 1 Apr 1960-15 Dec 1961	78	TR61 (TR61), 696 (696)	ASD (ASD)	AF33 (AF33), 616 7194 (6167194)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Studies Of The Brittle Behavior Of Ceramic Materials</b>	AD0277659	ARMOUR RESEARCH FOUNDATION CHICAGO IL	WEIL, NICHOLAS A.	4/1/1962	Ide tifi rs: Crystal dislocations. Extensive research on factors influencing the behavior of brittle non-metallic ceramics was undertaken. General information on the forms of Al2O3 and MgO studied and preliminary work on the effect of porosity on the fracture strength of Lucalox (Al2O3) are presented. Individual problem areas were attacked on separate task programs: (1) Effect of structural size (the zero strength); (2) Effects of strain rate; (3) Effect of non-uniform stress fields; (4) Effect of microstructure; (5) Internal friction measurements; (6) Surface energy on brittle behavior; (7) Fracture mechanisms; (8) Impurity influences; (9) Static fatigue (delayed fracture); (10) Effect of thermal-mechanical history; and (11) Surface active environments.		522	TR61-62816 (TR6162816), ASD-TR61-628 (ASDTR61628)	TR61-628 (TR61628), ASD (ASD)	AF 33(616)-7465 (AF336167465)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Abstract/Objective	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Study Of The Mechanism Of Failure Of Rocket Materials And Materials Research</b>	AD0281794	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Baskin, Y., Schell, D. C., Sumida, W. K.	5/1/1962	Rocket failure mechanisms in conjunction with the development of nozzle materials for solid propellant motors is discussed. Testing graphite in an oxy-acetylene torch and the effects of purity, density, orientation, and microstructure on erosion-resistance were evaluated. Erosion decreased with greater purity. New graphite materials were developed and evaluated including hot pressed compositions and impregnated bodies. Suitability of ZrC as a nozzle material was evaluated. Incorporation of Ta and W fibers in ZrC results in considerable improvement in resistance to thermal spalling although not sufficient to prevent cracking. Thoria-base bodies reinforced with W fibers were studied. Ten promising materials were fabricated into rocket nozzles and tested in static motor stands. Erosion performance is presented along with analysis of failure mechanisms.	Final rept. 15 Mar 60-15 Dec 61 on Refractory Inorganic Non-Metallic Materials	119	ASD-TDR-62-314 (ASDTDR62314)	TDR-62-314 (TDR62314), ASD (ASD)	AF 33(616)-7048 (AF336167048)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Semiconductor Diode Performance In Nuclear Radiation Environments.</b>	AD0281796	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Hamre ,Harlan G., Barrell ,Raymond C., McElroy,William N.	5/1/1962	Performance characteristics were determined for two types of general purpose diodes, and for five types of microwave diodes, in radiation environments equivalent to at least 1000 hours' exposure to 10 to the 10th neutron/sq cm-sec and 2 times 10 to the 5th Rad/hour. None of the units studied showed satisfactory performance characteristics after this exposure, although the germanium 1N263 point-contact diode was degraded less than others investigated, and still exhibited measurable properties following the exposure. Results, although not conclusive, seem to indicate that energizing the microwave mixers at X-band (9375 Mc) during radiation is helpful in prolonging the life of the units. (Author)	Final rept. 15 Apr 60-15 Aug 61 on ANP Airframe and Jet Oil Support,	80	ASD-TDR62 12 (ASDTDR6212)	TDR62 12 (TDR6212)	AF33 616 7329 (AF336167329)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Zone Refining Of Cemented Tungsten-base Alloys.</b>	AD0282120	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Parikh,N. M.	1/29/1962	A series of experiments was made to scale-up efforts to produce large tungsten sheets. A 600-lb block of W-Ni-Fe powder was prepared by hydrostatic pressing. Twelve-inch square slabs (one inch thick) were cut from this block and sintered. Some were warm rolled and subjected to zone refining treatment by electron beam heating. The details of the experimental results are discussed. (Author)	Quarterly rept. no. 2, 1 Oct-31 Dec 61,	12	WAL-TR372/32-3-T1 (WALTR372323T1)	TR372/32-3-T1 (TR372323T1)	DA11 022 505ORD3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Abstract/Objective	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Experimental And Theoretical Studies Of Jet Noise Phenomena.</b>	AD0282273	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Sperry ,W. C., Kamo ,R., Peter,A.	6/1/1962	Over-all sound pressure levels were measured in an anechoic room for noise generated by cold air flow through more than twenty different nozzle configurations including converging, converging-diverging, slot, and annular types, the latter with and without center core flow. The results are examined in terms of over-all acoustic power and directivity versus mass flow and compared with various eighth power relations. The acoustic performance of most nozzles was similar in the subsonic region. However, certain annular type nozzles exhibited a marked superiority in the supersonic region. Theoretical discussions are presented concerning the generation of sound and the relationship between various turbulence and statistical theories. A modified mixing length theory is developed showing its application to turbulence generation as well as its influence on the general forcing function equation. Temperature effects are included. Empirical data are given pertaining to the correlation of jet noise from circular and annular nozzles. (Author)	Final rept. Mar 61 Feb 62,	163	ASD-TDR62 303 (ASDTDR62303)	TDR62 303 (TDR62303)	AF33 616 6976 (AF336166976)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>A Study Of Organic Crystals As Icing Nuclei.</b>	AD0283531	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Langer ,G., Rosinski,J.	5/1/1962	This investigation concerned a study of organic icing nuclei as cloud-seeding agents. Presently cloud seeding is accomplished by coverting liquid carbon dioxide to dry-ice pellets. The results of the laboratory work showed that organic compounds are promising. The following substances gave complete nucleation: phloroglucinol at -2 C, trichlorobenzene at -12 C, d-raffinose at -14 C, trimesic acid at -15 C, and melamine at -15 C. In all, 32 organic compounds were investigated. Phloroglucinol, the most effective organic compound found, promises to exceed AgI in cloud-seeding efficiency, if an effective dispersal system can be developed. Preliminary dispersal tests with organic solvents showed promising results; the nuclei appeared much more active when atomized from CH3OH than from H2O. Theoretical analysis indicates that the activity of organic icing nuclei is determined by the configuration of the electric link-dipole moments in the molecules. The experiments to date indicate that organic compounds which exhibit ice-nucleating properties should possess more elements of molecular symmetry than ice and that the electric link-dipole moments should be arranged in such a fashion that the molecule will not have a resultant dipole. (Author)	Final rept., 1 Sep 61-30 Apr 62,	30	ARF-3205-8 (ARF32058), AFCRL-62-601 (AFCRL62601)	62-601 (62601)	AF 19(628)-208 (AF19628208)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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<b>Diffusion In Titanium And Titanium Alloys</b>	AD0290336	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Elliott, Rodney P.	10/1/1962	The self-diffusion of Ti and the inter diffusion of Al, Zr, Mo, V, and O in Ti were investigated in the temperature range 600 to 1300 C. Diffusion couples were prepared by roll-bonding or press-bonding techniques. Electron microprobe methods were used to determine the penetration of the substitutionally dissolved solutes; vacuum fusion analysis was used to determine the penetration of interstitially dissolved O. The electron microprobe analysis could not be used to determine the penetration curves of Al in Ti because of the very high absorption of characteristics Al X-radiation by Ti. The self- diffusion of Ti was investigated by studying penetration of Ti(44), formed by bombarding Sc with protons. Diffusion couples were formed by dissolving Ti(44)-enriched TiO2 into the Ti.	Final rept. 1 Nov 1960-28 Feb 1962	67	ARF-2208-16 (ARF220816), ASD TDR-62-561 (ASDTDR62561)	TDR-62-561 (TDR62561), ASD (ASD)	AF 33(616)7656 (AF336167656)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Liner For Extrusion Billet Containers</b>	AD0295626	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Spachner, S. A.	12/5/1962	Two shrink-fitted, compound sleeve assemblies have been designed to supply required support for use of solid ceramic, ceramic-coated metal, and elevated temperature metal extrusion liners, at stem pressures of 180,000 psi. Liner and sleeve machining and shrink-fitting data are supplied. The first assembly develops required support for ceramic liners and other materials which have high compressive strength and low tensile strength. The second assembly provides required support for materials which have modest elastic strain capability and/or strength in both tension and compression. A device has been designed for the rapid heating and accurate assembly of sleeves to be shrink-fitted.		97	ASD-TDR-7-945-V-2 (ASDTDR7945V2)	TDR-7-945-V-2 (TDR7945V2), ASD (ASD)	AF 33(657)-8784 (AF336578784)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Evaluation Of An Underwater High Velocity Missile (hydroduct And Hydroductor)</b>	AD0301968	ARMOUR RESEARCH FOUNDATION CHICAGO IL	HACKER, D. S., LIEBERMAN, P.	9/1/1958		Final summary rept. for Sep 1957-Apr 1958	58		ONR (ONR)	NONR-2389(00) (NONR238900)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

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<b>Electronic Countermeasures Against Infrared Devices</b>	AD0325766	ARMOUR RESEARCH FOUNDATION CHICAGO IL		4/1/1957	The requirements and capabilities of available infrared countermeasures for the Field Army are evaluated. Particular techniques and equipments that should be developed for the future Field Army are listed. Although only fragmentary qualitative and quantitative data on Soviet infrared equipment is available, the assumed direction that development in infrared techniques and equipment in the guided-missile field will take is pointed out. The difference between active and passive infrared equipment is explained. Visible illumination in night operations from requests through normal communication channels to counter enemy use of infrared detectors is recommended until at a much later date when infrared viewers will be available in quantity. The design of uniforms and equipment to prevent infrared reflectivity is recommended. The development of intercept receivers and pulsed and modulated- light countermeasures against infrared-fuzed proximity missiles is also recommended.	Preliminary study	24	AEPG-SIG-920-83 (AEPGSIG92083)	SIG-920-83 (SIG92083), AEPG (AEPG)	DA-36-039-SC-67463 (DA36039SC67463)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Development Of An Orally Effective Insect Repellent</b>	AD0402712	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Ginocchio, Stephen, Lal, Harbans	4/30/1963	Contents: Determination of lipid-water partition of potential repellents Distribution of potential mosquito repellents between chloroform and water Synthesis of N,N-diethyl-2,6-dimethylbenzamide and N,N-diethyl-m-(n- propyl)benzamide In vitro assay procedure: Baudruche and Fourex-treated membranes	Progress rept. 1 Feb-30 Apr 1963	20	ARF-C-222-4 (ARFC2224)	USAMRDC (USAMRDC)		A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Research On The Basic Nature Of Stress Corrosion For Various Structural Alloys At Room And Elevated Temperatures</b>	AD0405680	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Crossley, Frank A.	2/1/1963	Program objectives were: (1) to study the effect of microstructure on susceptibility to stress corrosion cracking in the short-transverse direction of 7075-T6 aluminum alloy; and (2) to study the kinetics of stress-corrosion cracking at elevated temperature of candidate materials for structural applications in the trisonic transport in the presence of sea salt. It was hypothesized that the poor resistance to stress corrosion of high-strength, wrought aluminum alloys was due to the layered-type microstructure characteristic of these materials. Short life was associated with the layered-type of grain structure characteristic of commercial material, and long life was associated with irregular or equiaxed grain structures. The experimental results gave good support to the hypothesis.	Technical documentary rept. 15 Dec 1961-16 Feb 1963	60	B-206-12 (B20612), ASD-TR-61-713-PT-2 (ASDTR61713PT2)	TR-61-713-PT-2 (TR61713PT2), ASD (ASD)	AF 33(616)-7612 (AF336167612)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Studies Of The Brittle Behavior Of Ceramic Materials</b>	AD0408925	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Weil, Nicholas A.	4/1/1963	The fundamental behavior of brittle nonmetallic ceramics was probed. Materials studied included poly and single crystals of MgO, BeO and two grades of Al2O3. The statistical fracture was found to be characterized by the Weibull theory. The effect of strain rates from 10 to the minus 7th power to 10 reciprocal seconds at from 75 to 1800 F on the fracture stress in bending was determined experimentally. The effects of non-uniform stress fields, of microstructure and of surface energy were investigated.	Final rept. 1 Dec 1961-30 Nov 1962	724	ASD-TR-61-628-PT-2 (ASDTR61628PT2)	TR-61-628-PT-2 (TR61628PT2), ASD (ASD)	AF 33(616)-7465 (AF336167465)	A - 01 - APPROVED FOR PUBLIC RELEASE, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Approved for public release; distribution is unlimited. Document partially illegible.	U - Unclassified

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<b>Review Of Structural Design Techniques For Brittle Components Under Static Loads. Volume 2</b>	AD0410262	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Barnett, Ralph L.	5/1/1963	A systematic review of structural design techniques for brittle materials is conducted with particular emphasis on statistical fracture theories. The properties of both series and parallel statistical models are discussed, and a critical analysis is given for the experimental data which is available in the literature. The relationship of extreme value statistics to the fracture problem is thoroughly exploited. A survey of brittle test specimens and design rules-of-thumb is included, together with a number of very promising design philosophies.	Final rept., Feb-May 1963	135	ARF-8259-V-2 (ARF8259V2)	ASD (ASD)	AF-33-657-8339 (AF336578339)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Gage Placement Study</b>	AD0419316	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Selig, E. T., Rusin, R.	8/1/1963	A study was made of the various factors which affect the behavior of gages in soil. The ultimate objective of the study is to provide guides and recommended procedures for gage placement. Previous field and laboratory experience with stress, strain and motion measurement in soil was reviewed and a list of references provided. This was supplemented by an experimental investigation of embedded accelerometers to determine the importance of gage density and placement procedures on gage response. The most important factors influencing motion measurement appear to be (1) gage density in relation to the soil, and (2) placement conditions. Reproducibility of peak acceleration measurements was within = 15% on the average. For a variation in accelerometer density of 55%, a 12 percent difference in peak accelerations was observed for pendulum tests in sand and a 37% difference for shock tube tests in clay. Changing the static compaction pressures for placement of gages in clay from 12 psi to 42 psi resulted in a decrease of 22% in the peak accelerations recorded.	Final rept. July 1962-May 1963	81	ARF-K275 (ARFK275), RTD-TDR-63-3024 (RTDTDR633024)	TDR-63-3024 (TDR633024), RTD (RTD)	AF 29(601)-5412 (AF296015412)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>A Study Of Loads On Underground Structures, Parts I - Iii.</b>	AD0420528	IOWA ENGINEERING EXPERIMENT STATION AMES	Van Horn,D. A., Tener,R. K.	1/1/1943	An annotated bibliography is presented in which the main purpose is to list earlier studies of loads on underground structures. A discussion is presented of three of the current procedures for design of underground structures in which nuclear effects are given consideration. An analytical method is given for determining loads resulting from time-dependent overpressures based mainly on previous work at Iowa State University and the Armour Research Foundation. This is supplemented by a graphical representation of the expressions developed. (Author)	Final rept.,	1	DASA-1406 (DASA1406)	1406 (1406)	DA48 146XZ085 (DA48146XZ085)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified



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<b>Special Report On An Integrating Sphere Light Source,</b>	AD0429320	IIT RESEARCH INST CHICAGO ILL	Weiner,M. R., Pontarelli,D. A., Betz,H. T., Davis,W. J., Fenlon,P. F.	3/1/1963	Work performed at Armour Research Foundation to develop a light source having a uniform Lambertian surface. A uniform Lambertian surface has these two important properties: (1) the intensity of the light emitted by a point on the surface is equal for all points on the surface, and (2) the intensity of light emitted from an infinitesimal area in a particular direction varies as cos theta, where theta is the angle between the normal to the emitting surface and the direction of measurement. The preliminary systems investigated, which did not satisfy the design requirements, are described. On the basis of this investigation it was concluded that the utilization of an integrating sphere system offered the most feasible approach to this task. The characteristics of the final integrating sphere system are described in detail. This system has several modes of operation. Uniformity and goniometric measurements were performed to determine the characteristics for the various system arrangements. This data is presented in graphical and tabular form. (Author)		35	E158 47 (E15847)		NOrd16969 (NOrd16969)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Study Of Mass Flowmeters.</b>	AD0479767	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Miesse, C. C.	7/15/1959	Part I contains a survey of mass flowmeters, including volumetric meters with automatic temperature-dependent density compensation, transverse momentum-type flowmeters, and other types of flowmeters which can be adapted to the measurement of mass flow. As a result of this survey it was concluded that volumetric meters with density compensation are inadequate for nonuniform mass flow, transverse momentum-type flowmeters are well-suited for mass flow measurement, and the more exotic device require further development before serious consideration can be given. Part II contains a detailed report of the calibration techniques and data obtained from the experimental investigation of three meters. (Author)	Final rept. 26 Jun 53-15 Jun 59,	133			DA-11-022-ORD-2857 (DA11022ORD2857)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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The Interaction Of Buried Structures With Ground Shock Of Concepts Of Preliminary Design Of Structure Projects For Underground Nuclear Detonations. Appendix B,	AD0486100	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Wiedermann, A. H.	1/1/1960	This report presents a theory or concept which can be used to estimate the forces acting on a buried structure when the structure is subjected to a ground shock wave. This work is intended to be applicable primarily for the type of rock found at the Nevada Test Site, such as white or reddish tuff. A discussion of the free field variables is given together with an idealization of the stress wave forms of interest. The basis of the soil-structure interaction concept lies in the assumption of the nature of the forces acting on the buried structure. The force acting on the structure is assumed to be composed of two parts. One, the wave force, is due to the sudden motion of the surrounding media and the subsequent state of stress in the ground shock wave. The other, the arching force is due to the local deformation or displacement of the structure relative to the surrounding media. The motion of the structure is governed by the usual equation of motion, however, in this treatment the forcing term has been split into two uncoupled terms. The wave force term is a function of time and the arching force term is a function of the relative displacement between the structure surface and its corresponding soil position. The response of the buried structure is given for a range of ground shock wave parameters, structure configurations and structure parameters, and includes some analysis of shock isolation systems. (Author)		74	AFSWC-TR-60-3-App-B (AFSWCTR603AppB)	TR-60-3-App-B (TR603AppB)	AF 33(616)-1169 (AF336161169)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Devices For Palm Shape Retention Of Pressure Gloves With Internal Inflation	AD0490185	ARMOUR RESEARCH FOUNDATION CHICAGO IL	VILLIERS, W.H.	11/1/1962			1	TDR62 95 (TDR6295), AMRL TDR-62-95 (AMRLTDR6295)	TDR-62-95 (TDR6295)	AF33 616 5386 (AF336165386)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Survey Of Electrical Power Sources,	AD0493474	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Matsch, L. W.	8/31/1946	The survey consists of a search of periodicals, patents and other sources with brief abstracts of the pertinent items to be followed with a quantitative study and appraisal of the various methods found. The search of periodicals and patents has been started and will approach completion some time during the next three-month period. The quantitative study and appraisal have also been started and will continue. Later in the program a search of the periodical literature for prime movers will begin.		8	ARF-12-380E-1 (ARF12380E1)		W-36-039-SC-32132 (W36039SC32132 )	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Some Recent Developments In Digital Control Systems,	AD0606349	THOMPSON RAMO WOOLDRIDGE INC LOS ANGELES CALIF	Grabbe,E. M.	1/1/1937			10				A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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<b>Optical Performance Of Multi-channel Uv And Visible Spectrograph</b>	AD0619496	BOSTON COLL CHESTNUT HILL MA	Devlin, James J.	5/27/1965	Optical performance tests were made on a multi-channel UV and visible photographic spectrograph of the Ebert type which was designed and built by IIT Research Institute, Chicago, Illinois. The instrument was provided with several channels of fiber optics leading into the spectrograph entrance slit. These fibers could be directed at luminous sources at various spacial positions. It was determined that the spectral range was 2500A to 6500A, the average plate factor was 111A per mm. and the resolving power was better than 2A. It was shown that the field of view of each bundle of optical fibers provided excellent light collecting abilities up to 6 deg around the optic axis and slightly less collecting ability up to 12 deg. Each of the fiber bundles was approximately 0. 254mm in diameter. The spectrograph accordingly met its optical design specifications. However, it was recommended that the open photographic reels be replaced by light-proof magazines.	Final rept. for 1 Apr-30 Jun 1965	30	AFCRL-65-477 (AFCRL65477)	65-477 (65477), DARPA (DARPA)	AF 19(628)-4305 (AF196284305), ARPA ORDER-254 (ARPAORDER254)	A - 01 - APPROVED FOR PUBLIC RELEASE, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Approved for public release; distribution is unlimited. Document partially illegible.	U - Unclassified
<b>Studies Of Intermediate Frequency Solid State Limiters Designed For Minimization Of Phase Changes,</b>	AD0622488	JOHNS HOPKINS UNIV SILVER SPRING MD APPLIED PHYSICS LAB	Kuck,J. H., Zinger,W., Massey,W.	2/19/1964	Three approaches are investigated to the design of a solid state 30MC limiter exhibiting negligible phase change (less than ten degrees) as input signal level is varied from small signal region to maximum input. Series diodes, shunt diodes, and transistors are studied as limiters.		35	CF-3069 (CF3069)		NOw62 0604c (NOw620604c)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Evaluation Of Silicon Metallic Rectifiers.</b>	AD0622928	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Lathan,B. F.	10/1/1960	Silicon rectifiers offer many advantages over rectifiers made of other materials, therefore, the use of these devices is widespread, particularly in military equipment applications. This project is designed to yield information to specify rectifier service life as a function of the ambient operating temperature for a medium-power class of diodes characterized by 1N540 diodes. To this end, three groups of rectifiers have been placed on life test at different ambient temperatures to determine three points on a curve of life versus ambient temperature. An accumulated test time of over 4,392 hours has been represented by data gathered on the 200C environmental group. To date, a total of 34 failures have occurred, and 11 diodes have survived the life test on this group. The 185C and 170C environmental groups were placed under life tests during the last period. At the end of 504 hours, 15 failures had occurred for the 185C test group and five failures for the 170C test group. (Author)	Interim engineering rept. no. 9, 1 Jul-30 Sep 60,	29			NObs72444 (NObs72444)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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<b>Evaluation Of Silicon Metallic Rectifiers.</b>	AD0622929	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Lathan,B. F.	1/1/1961	Silicon rectifiers offer many advantages over rectifiers made of other materials, therefore, the use of these devices is widespread, particularly in military equipment applications. This project is designed to yield information to specify rectifier service life as a function of the ambient operating temperature for a medium-power class of diodes characterized by IN540 diodes. To this end, three groups of rectifiers have been placed on life test at different ambient temperatures to determine three points on a curve of life versus ambient temperature. An accumulated test time of over 6500 hours has been represented by data gathered on the 200 C environmental group. To date, a total of 35 failures have occurred, and 10 diodes have survived the life test on this group. The 185 C and 170 C environmental groups have been subjected to over 3000 hours of experiment. At the end of 2952 hours, 30 failures had occurred for the 185 C test group and seven failures for the 170 C test group. Diodes from Manufacturer '6' continue to exhibit a markedly low rate of failure at the elevated temperatures of 200 C and 185 C. (Author)	Interim Engineering rept. no. 10, 1 Oct-30 Dec 60,	27			NObs72444 (NObs72444)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Evaluation Of Silicon Metallic Rectifiers.</b>	AD0623197	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	LATHAN,B. F.	7/1/1961	Three groups of type 1N540 rectifiers are being subjected to life test at different ambient temperatures to determine three points on a curve of life versus ambient temperature. An accumulated test time of 10,000 hours has been represented by data gathered on the 200C environmental group. The life experiment on this group was terminated after the 10,000-hour measurement. A total of 35 failures have occurred, and 10 diodes have survived the test on this group. The 185C and 170C environmental groups have been subjected to over 7000 hours of experiment. At the end of 6912 hours, 32 failures had occurred for the 185C test group and seven failures for the 170C test group. Diodes from Manufacturer '6' have continued to exhibit superior performance at the elevated temperatures of 200C and 185C. (Author)	Interim engineering rept. no. 12, 1 Apr-30 Jun 61,	23			NObs72444 (NObs72444)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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State Of The Art In Electromagnetic Interference Applied To Problems Of The Bureau Of Yards And Docks.	AD0631346	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		8/1/1961	Investigations were conducted regarding the adequacy of RFI specification MIL-I-16910A to which the Bureau of Yards and Docks must currently adhere (Phase II) and the suitability of the instrumentation program currently in force (Phase III). A specification objective applicable to the Bureau's responsibilities with respect to the control of electromagnetic interference (EMI) was arrived at. Recommendations were made concerning permissible interference limits on non-military frequencies, limits for magnetic field strength, a method for measuring conducted interference along electrical wires, a simplified measurement procedure, and the acquisition of Naval vehicles. The instrumentation phase evaluated typical commercial EMI measuring instruments as to their adequacy in fulfilling the Bureau's responsibilities in the detection and measurement of interference. An investigation was conducted regarding the extent and type of instrumentation which would be compatible with the intensity of interference problems confronting BuDocks. A suggested instrumentation program is presented along with desirable instrument characteristics. (Author)	Final rept., Phases II and III.	90			NBy-24936 (NBy24936)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Dialog: A Conversational Programming System With A Graphical Orientation.	AD0646857	IIT RESEARCH INST CHICAGO ILL COMPUTER SCIENCES DIV	Cameron,Scott H., Ewing,Duncan, Liveright,Michael	9/1/1966	DIALOG is an algebraic language for on-line use with a graphical input-output console device. It is a computational aid for the casual user, which provides basic facilities for graphical and numeric input and display, on and off-line program preparation and storage, and hard copy presentation of results. Use of the system requires a minimum of experience or instruction, since the growth of an overlaying system control language has been prevented, and there are no processor-oriented statements, like variable type or dimension declarations. Moreover, in the on-line situation, the processor interacts with the graphical keyboard on a character by character basis so as to restrict the programmer's choice of input symbols to those which are syntactically correct. DIALOG has been in daily operation at the IIT Research Institute since February, 1966. (Author)	Technical note,	50	IITRI-TN-109 (IITRITN109)		Nonr-3392(00) (Nonr339200)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Abstract/Objective	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Air Craft Landing Gear Brake Friction Materials Development.</b>	AD0669388	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Eisenberg,M., Flint,E., Nudelman,H. B., McGee,S. W., Carlson,G.	7/31/1957	The objective of this program was to survey the literature on the subject, the aircraft brake industry, and then to develop new improved brake linings and mating member alloys able to sustain high energy stop conditions. Titanium and molybdenum reinforced linings were found to be very promising and are recommended for further development. The alloys capable of withstanding severe braking conditions were 30% molybdenum-70% titanium and 50% titanium-50% vanadium. Molybdenum also showed promise as being very valuable in future brake development either alone or alloyed. Metal fiber reinforcement of metal-ceramic linings contributed considerably to the strength of the new materials. (Author)	Final rept. 28 May 52-31 Jul 57,	201			AF 33(616)-186 (AF33616186)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Revision Of Standards For Attenuation Measurements Of Shielded Enclosures</b>	AD0676328	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Peach, L. C.	9/30/1958	The purpose of this research is to develop improved techniques for measuring the effectiveness of shielded enclosures in the frequency range 14 kilocycles to 10,000 megacycles per second and to provide recommendations for standard methods of evaluating such enclosures.	Quarterly progress rept. no. 1, 18 Jun-30 Sep 1958.	9	ARF-E108-1 (ARFE1081)	BUSHIPS (BUSHIPS)	NOBSR-72824 (NOBSR72824)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Revision Of Standards For Attenuation Measurements Of Shielded Enclosures</b>	AD0676329	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Peach, L. C.	1/13/1959	This report covers the work done during the second quarter of a one- year research program which began on 18 June 1958. The program consists of theoretical and experimental investigation leading to an improved standard for testing shielded enclosures in the frequency range of 14 kilocycles to 10,000 megacycles. The similarity between plane-wave propagation and propagation in a transmission line makes it possible to apply the results of transmission-line theory to the plane-wave theory of shielding. These results could, however, be obtained directly from extension of the plane-wave theory of shielding. The transmission-line analogy is especially useful in determining shielding effectiveness when the fields encountered have impedances which differ considerably from that of a plane wave.	Quarterly progress rept. no. 2, 1 Oct-31 Dec 1958.	44	ARF-E108-2 (ARFE1082)	BUSHIPS (BUSHIPS)	NOBSR-72824 (NOBSR72824)	A - 01 - APPROVED FOR PUBLIC RELEASE, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Approved for public release; distribution is unlimited. Document partially illegible.	U - Unclassified

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Revision Of Standards For Attenuation Measurements Of Shielded Enclosures	AD0676330	ARMOUR RESEARCH FOUNDATION CHICAGO IL		4/1/1959	The program consists of theoretical and experimental investigations leading to an improved standard for testing shielded enclosures in the frequency range of 14 kilocycles to 10,000 megacycles. The improved standard is being formulated in terms of tests at approximately 14 kilocycles, in the neighborhood of the resonant frequencies of the room, and at 10,000 megacycles. The reasons for choosing these frequencies are; (1) shielding against low-frequency, low- impedance fields is difficult compared to other types of fields, (2) at the mid-frequencies, enclosures exhibit resonances which can significantly affect the performance of the room, and (3) at very high frequencies shielded enclosures exhibit phenomena not predictable from their performance at the lower frequencies. Two methods for evaluating shielded enclosures using low-impedance, low-frequency fields are under investigation.	Quarterly progress rept. no. 3, 1 Jan-31 Mar 1959	78	ARF-E108-3 (ARFE1083)	BUSHIPS (BUSHIPS)	NOBSR-72824 (NOBSR72824)	A - 01 - APPROVED FOR PUBLIC RELEASE, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Approved for public release; distribution is unlimited. Document partially illegible.	U - Unclassified
Revision Of Standards For Measurements Of Shielding Effectiveness Of Enclosures	AD0676331	ARMOUR RESEARCH FOUNDATION CHICAGO IL		7/1/1959	A new method for evaluating shielded enclosures using low-impedance, low-frequency fields is under investigation. This method involves the use of two large rectangular transmitting loops which surround and 'immerse' the enclosure in an essentially magnetic field. An average value of the field penetrating the enclosure is obtained using a small pick-up loop in the center of the shielded enclosure. In addition, a small loop probe is used to explore the local field in the neighborhood of wall and door joints. Tests to measure the variation of shielding effectiveness with frequency were performed on a sheet of copper, 2.5 mils thick, and on the copper screening material of one shielded enclosure.	Quarterly progress rept. no. 4, 1 Apr-30 Jun 1959	65	ARF-E108-4 (ARFE1084)	BUSHIPS (BUSHIPS)	NOBSR-72824 (NOBSR72824)	A - 01 - APPROVED FOR PUBLIC RELEASE, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Approved for public release; distribution is unlimited. Document partially illegible.	U - Unclassified
Revision Of Standards For Measurements Of Shielding Effectiveness Of Enclosures	AD0676332	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kanellakos, D. P.	10/1/1959	Theoretical and experimental results obtained during the research program indicate that tests should be performed in three frequency ranges: at 15 kilocycles, at the lowest natural resonant frequency of the enclosure, and near 9 kilomegacycles. The proposed revised test standards which emerged out of the work performed during this program are given in subsequent sections of this report.	Final rept. 18 Jun 1958-30 Sep 1959	35	ARF-E108-F (ARFE108F)	BUSHIPS (BUSHIPS)	NOBSR-72824 (NOBSR72824)	A - 01 - APPROVED FOR PUBLIC RELEASE, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Approved for public release; distribution is unlimited. Document partially illegible.	U - Unclassified
litri 10 Ton 1968 Shot Series	AD0677472	UNDERWATER SYSTEMS INC ROCKVILLE MD	Hecht, Richard J., Woolston, Daniel D., Weinstein, Marvin S.	7/15/1968	Two 10 ton charges composed of slurry type explosives designed to be detonated underwater were detonated on February 16 and 21 (GMT) 1968. The explosives were housed in a container specially designed by IIT Research Institute. Shot number 1 detonated at 1,825 feet and decended with a terminal velocity of 18.9 ft/sec. Shot number 2 detonated at 3,025 feet and decended with a terminal velocity of 18.8 ft/sec. The charges had a yield equivalent to 12 to 13 tons of TNT on an energy basis. The bubble pulse period for these charges was equivalent to 21 tons of TNT.	Technical progress rept. no. 20	36		DARPA (DARPA)	NONR-4026(00) (NONR402600), ARPA ORDER-218 (ARPAORDER218)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

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<b>Development Of Ultra-high Strength, Temper-resistant Steels Designed For Improvement Of Fatigue Properties Through Relief Of Residual Stress.</b>	AD0690622	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	Nudelman,Harvey B., Sheehan,John P.	6/1/1959	Various experimental alloy steels were investigated with reference to temper resistance, which was evaluated on the basis of hardness measurements. Molybdenum was the major alloying element used for improving temper resistance in steels having carbon contents in the range of 0.30 to 0.55 per cent. Chromium, vanadium, and tungsten were utilized in minor amounts as alloying elements. It was found that austenitizing at 2200F was required to dissolve all of the carbides and provide a fully martensitic structure upon oil quenching or air cooling. Alloys were developed capable of maintaining hardnesses of Rc 40 to Rc 59 after tempering for one hour in the range of 1250F to 1300F. (Author)	Technical rept. 1 May 58-28 Feb 59,	32	WADC-TR-59-86 (WADCTR5986)	TR-59-86 (TR5986)	AF 33(616)-3299 (AF336163299)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Fire Laboratory Tests. Phase 2. Interaction Of Fire And Simulated Blast Debris</b>	AD0743210	IIT RESEARCH INST CHICAGO IL	Takata, Arthur N., Waterman, Thomas E.	2/1/1972	A reusable full-scale fire test facility, designed, constructed and instrumented by IIT Research Institute for the Office of Civil Defense, has been operated to gather information on the flow of heat and fire gases into unsealed basement shelters. Activities included fire experiments with varied amounts and types of combustible and noncombustible loading over and beyond the shelter space. Also there were experiments in which water was added to the top of the shelter ceiling slab to moderate the peak heating period. Debris removal from the slab and from venting points has been examined. An analytical model of the heat flow through the shelter slab has been constructed to aid in the projection and evaluation of countermeasure effectiveness.	Final rept. 1 Jul 1970-31 Dec 1971	102	IITRI-J6217(2) (IITRIJ62172)	OCD (OCD)	DAHC20-70-C-0406 (DAHC2070C0406)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Compilation Of Abstracts - 8th Afosr Combined Contractor's Meeting On Combustion Dynamics Research Held At Iit Research Institute, Chicago, Illinois On 14-18 August 1972,</b>	AD0750466	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH ARLINGTON VA	Napadensky,Hyla S.	8/14/1972	The report consists of a collection of abstracts of the numerous research progress reports given by AFOSR contractors. These papers presented over a five-day period composed the 8th Annual Meeting of Combustion Dynamics Research. Each paper was grouped under one of the three major subject headings; Advanced Air Breathing Combustion; Liquid Propellant Rocket Combustion; or Solid Propellant Rocket Combustion. The principal investigators and their organizational association are also identified. (Author)		56	AFOSR-TR-72-0653 (AFOSRTR720653)			A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified



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<b>Description Of A Fast-running Fire-spread Model.</b>	AD0774619	INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA PROGRAM ANALYSIS DIV	Miercort,Frederic A.	12/1/1973	The paper describes a fire-spread model and computer program intended to be a fast-running analysis tool for use in conjunction with studies of local civil defense emergency operations. Based on the more detailed fire-spread model developed by the IIT Research Institute, this model attempts to preserve the basic mechanisms, particularly the spread of fire by radiation and firebrands. It achieves fast running through replacing more detailed calculations by curve fitting of results, and replacing detailed ignition-probability calculations by assumed input values. This model adds provisions for both the coupling of blast damage to fire and allowing for multiple weapon inputs. (Modified author abstract)	Final rept.,	53	P-988 (P988), IDA/HQ-73-15750 (IDAHQ7315750)	73-15750 (7315750)	DAHC20-70-C-0287 (DAHC2070C0287)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Investigation Of Solar Energy For Ice Melting.</b>	AD0787111	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		6/1/1948	The object of this study was to investigate the possibility of melting ice formed on the surfaces of rivers and lakes in the northern parts of the United States by applying a layer of a material that would absorb more of the available solar energy. Heat losses from water surfaces during the winter months were calculated based on a literature survey. Under the conditions existing in the northern United States the growth of an ice sheet and the effect of solar energy absorbed on the rate of the ice formation was analyzed. The effect of an absorbent layer applied to the ice surface on the growth of the ice sheet is studied. The extent to which the melting rate could be altered by such a layer is investigated. A discussion is made of the materials that can be used for this purpose and it is suggested that industrial waste materials be given first consideration. It is estimated that 105,000 lb of industrial slag of dark color (absorptivity ranging from 0.70 to 0.80) would give a layer 0.03 in. thick, 100 ft wide and 1 mile long. It is recommended that industrial waste materials as well as others be studied to determine their applicability as possible absorbers.	Final rept.	59	ARF-90-688-D (ARF90688D)		Tcg-12942-A (Tcg12942A)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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Control Of Evaporator Scale.	AD0787172	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		11/15/1947	Information relating to the formation and control of scale in sea water evaporators has been gathered from the published literature and from the files of various governmental agencies and evaporator manufacturers. This material has been compiled as a general survey of the factors affecting the production of fresh water from sea water. The study indicates that experimental study should be made of conditions under which components of the sea water precipitate as scale, the effect of circulation and temperature on scale formation, the use of chemical and electrolytic agents to prevent or control scale formation, and the influence of evaporator design and operating technique on evaporator performance and scale deposition. An extensive bibliography is included. (Author)		126	ARF-90-501-G-1 (ARF90501G1)		Tcg-37358 (Tcg37358)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Control Of Evaporator Scale.	AD0787173	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		5/3/1948	The report presents data on four aspects of the study of scale control in sea water evaporators; namely, CO2 elimination from sea water, density of sea water concentrated, boiling points of sea water concentrates, and rate of scale formation in evaporators. It has been found that all of the CO2 content of sea water can be eliminated by heating and aeration; temperature is the controlling factor in the rate of CO2 loss. Density data for sea water concentrates are presented. Boiling points are given on various sea water concentrates. Information on the scaling rate of evaporators is collected and analyzed. (Modified author abstract)		68	ARF-90-501-G-2 (ARF90501G2)		Tcg-37358 (Tcg37358)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Sea Water Evaporator Scale.	AD0787174	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		9/1/1948	The report is devoted to extending earlier data concerning the decarbonation of sea water by heat and aeration. The particle dimensions of the by-product magnesium hydroxide precipitate are given. Rate curves are shown correlating distillation methods and reflux methods with aeration subsequent to heating and aeration during heating. Approximately 85% of its total carbon dioxide content can be removed from sea water by physical means. Analytical methods are described and the probable mechanisms of the reaction is suggested. Conclusions include recommendations for the preliminary design of a large scale unit for further experimental work. (Modified author abstract)		21	ARF-90-501-G-3 (ARF90501G3)		Tcg-37358 (Tcg37358)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Control Of Evaporator Scale.	AD0787175	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		3/1/1949	The report includes the analyses of several samples of scale from sea water evaporators of different types, a description of the experimental sea water evaporator installed and now in operation at Armour Research Foundation, a report on the chemical changes found in sea water which had been stored in barrels for eighteen months, and the experimental data from completely recycled evaporation runs in the experimental unit. (Modified author abstract)	Research rept.	36	ARF-90-501-G-4 (ARF90501G4)		TCG-37358 (TCG37358)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Abstract/Objective	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Sea Water Evaporator Scale Control.	AD0787176	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		6/15/1949	The heat balance equation for the experimental sea water evaporator is developed for atmospheric evaporation, and the overall coefficients of heat transfer are presented. The major components of sea-water evaporator scale are identified. The physical deposition of suspended scale constituents is shown to affect all scale constituents, and to be more greatly influenced by brine velocity than by temperature gradient. The role of calcium sulfate as a cementing agent is discussed. The mechanism of carbonate scale formation is reviewed. A simple modification of present evaporator design is suggested to minimize the formation of carbonates. The velocity of scale deposition is influenced by operating factors other than those which proportionately affect the rate of distillation. It is therefore suggested that the use of 'scaling rates,' - weight of scale per unit volume of distillate, be implemented by scale analyses or by a description of these operating factors in the evaluation of sea water scales. Recommendations for further research are presented. (Modified author abstract)		56	ARF-90-501-G-5 (ARF90501G5)		Tcg-37358 (Tcg37358)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Evaporator Scale Control.	AD0787178	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		1/31/1950	A short summary is given of conclusions and concepts resulting from the operation of the experimental sea water evaporator. The components of Navy boiler compound and starch have been tested with normal sea water using the laboratory experimental evaporator. It is concluded that the beneficial effect of starch in the pretreatment of sea water is the reduction of calcium sulfate content and adherency. Four campaigns using the partial decarbonation of sea water prior to low-pressure evaporation were conducted. It appears that the reduction in scaling achieved through preliminary decarbonation is roughly propositional to the reduction in carbon dioxide content, and that a further decrease in scaling is obtained by filtration of the decarbonated feed. (Modified author abstract)		27	ARF-90-501-G-7 (ARF90501G7)		Tcg-37358 (Tcg37358)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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Sea Water Evaporator Scale Control.	AD0787179	ARMOUR RESEARCH FOUNDATION CHICAGO ILL		1/31/1950	A review of the chemical and physical principles, which dominate the formation and deposition of sea water scale, is combined with scaling data obtained through operation of the experimental sea water evaporator. The concept of adherency is suggested to explain why the scale deposited upon the heated surfaces of the evaporator may be only a fraction of that which is precipitated in solution. The effect upon scale composition of variations in the composition of the sea water feed is discussed, and the specific effects upon scaling of additions of Belloid T-D and Navy boiler compound plus starch is considered. Full scale tests of the reduction in scaling which results from preliminary elimination of over half of the carbon dioxide content are discussed. The evaluation of scales of differing compositions is discussed. Recycled brine from the evaporator is shown to be an excellent additive, particularly if combined with filtration and a peptizing agent. The addition of the feed directly to such a recycling brine system, called preconcentration, is effective. Recommendations are made concerning additional investigative approaches to the understanding and reduction of sea water scaling. (Modified author abstract)	Final rept.	72	ARF-90-501-G (ARF90501G)		Tcg-37358 (Tcg37358)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Fundamentals Of Liquid Propellant Sensitivity.	AD0818649	IIT RESEARCH INST CHICAGO IL	Tulis, Allen J., Erikson, Ted A.	9/1/1966	A dual mechanism is proposed for the explosive sensitivity of condensed phase CNF compounds and it was substantiated by the results of most IIT Research Institute shock-tube tests. Two paths are proposed, namely flash vaporization of reactants with fast vapor-phase reaction and surface self-heating reaction with flash vaporization of products. Relative to the latter, the former proceeds at lower external (reflected-shock) pressures and at more explosive rates of reaction. In general, most evidence suggests that the former path is promoted by physical factors (e.g., high surface area and low heat of vaporization, molecular weight, heat capacity, etc.) and the latter by chemical factors (e.g., low activation energy, catalysts, activators, sensitizers, etc.). Efforts to verify the mechanism by shock-tube tests with nitromethane, nitroglycerine, and inert compounds have been partly successful. Although inconclusive, some experimental evidence substantiates flash vaporization (with inert compounds) and pronounced variations in reaction rates with reflected shock pressure (with nitroglycerine).	Technical progress rept. no. 3, 1 Jun-31 Aug 66,	18	IITRI-C6085-12 (IITRIC608512), AFRPL-TR-66-261 (AFRPLTR66261)	TR-66-261 (TR66261)	AF 04(611)-11207 (AF0461111207)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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<b>Operation Of Reliability Analysis Center</b>	AD0864892	IIT RESEARCH INST CHICAGO IL	Lauffenburger, Harold A.	1/1/1970	The Reliability Analysis Center is a service for the dissemination of reliability and experience information on microelectronic devices. It is administered for the Department of Defense by the Rome Air Development Center, Air Force Systems Command, and operated for that Center by IIT Research Institute. Its objective is to improve electronic systems reliability through a more fundamental understanding of microcircuit reliability factors and failure mechanisms.	Final technical rept. 1 Aug 1968-31 Aug 1969	120	IITRI-E6122-FR (IITRIE6122FR), RADC-TR-69-360 (RADCTR69360)	TR-69-360 (TR69360), RADC (RADC)	F30602-69-C-0101 (F3060269C0101)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Emp Preferred Test Procedures. Revision</b>	ADA039768	IIT RESEARCH INST CHICAGO IL	Bridges, J. E., Wells, W. C., Peach, L. C., Emberson, W. C., Townsend, L. B.	2/1/1977	IIT Research Institute has developed EMP PREFERRED TEST PROCEDURES for selected electronic components. This is part of a continuing program to formulate and recommend procedures by which EMP test data may be obtained and reported. In this connection, it is important to realize what these preferred procedures are and what they are not. They are a formal recognition of good practices and methods based on sound physical principles which can lead to useful EMP data. They provide a means of communicating useful information among workers in a large multidisciplined technology. These preferred procedures are not necessarily cook-book simplifications and are not intended to be a MIL-SPEC or a panacea for designers of hardened systems. The EMP PREFERRED TEST PROCEDURES require some experience and intelligence on the part of the experimenter.		59	IITRI-E6261-REV (IITRIE6261REV), DNA-3286H-REV (DNA3286HREV)	3286H-REV (3286HREV), DSWA (DSWA)	DNA001-75-C-0201 (DNA00175C0201), DNA001-73-C-0149 (DNA00173C0149)	A - 01 - APPROVED FOR PUBLIC RELEASE, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Approved for public release; distribution is unlimited. Document partially illegible.	U - Unclassified
<b>A Bibliography On The Response Of Earth Media And Buried Structures To Ground Loading.</b>	ADA040180	IIT RESEARCH INST CHICAGO ILL	Chiapetta,R. L., Costantino,C. J.	6/1/1967	Brief descriptions are presented of several of IIT Research Institute's analyses and associated computer codes relating to shock wave propagation through earth media and to the response of buried structures to ground shock loading. (Author)	Final rept.,	104	WES-CR-3-168 (WESCR3168)	CR-3-168 (CR3168)	DACA39-67-C-0015 (DACA3967C0015)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Tnt Equivalency Of Black Powder. Volume 2. Appendices</b>	ADA044444	IIT RESEARCH INST CHICAGO IL	Napadensky, Hyla S., Swatosh, Jr, James J.	9/1/1972	IIT Research Institute has conducted an experimental study to determine the TNT equivalency of Black Powder. The results of this effort are presented in two volumes: Volume I, Management Summary and Technical Discussion, presents a brief, concise review of the study content, summarizes the principal conclusions and recommendations, and provides a discussion of the test data and the data analysis. Volume II, Appendices, contains summaries of the raw data, computational method, computed equivalencies, and detailed description of the instrumentation system.	Final technical rept. 1 Jan-1 Jun 1972	129	IITRI-J6265-3-VOL2 (IITRIJ62653VOL2)	PA (PA)		A - 01 - APPROVED FOR PUBLIC RELEASE, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Approved for public release; distribution is unlimited. Document partially illegible.	U - Unclassified

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<b>Studies To Determine The Electrical And Physical Properties Of Aircraft Lubricating Oils</b>	ADA075879	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Radnik, Joseph L.	9/1/1952	A study was made of various grades of aircraft lubricating oils to assist in evaluating the capacitance type fuel quantity gage for use with oils. Measurements of dielectric constant, dissipation factor, and density were made on 144 new and used specimens of aircraft lubricating oils of grades 1100, 1080, 1065, 1010 and 1005 under the influence of changing frequency and temperature. Special studies were made to determine the effects of dilution with aviation fuel, the effect of additive compounds, and the effect of oil clinging to the sides of the sensing element of the gage. Used oil specimens were found to have substantially higher dielectric constants and dissipation factors than the corresponding new oil specimens. Dissipation factors as high as 5.020 were detected in some used specimens. Addition of various additive compounds to a base oil produced a significant change in the dielectric properties of the mixture.	Technical rept.	149	WADC-TR-52-220 (WADCTR52220)	TR-52-220 (TR52220), WADC (WADC)	AF 33(038)-3793 (AF330383793)	A - 01 - APPROVED FOR PUBLIC RELEASE, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Availability: Document partially illegible.	U - Unclassified
<b>Navy-new Hampshire Wind Energy Program.</b>	ADA086506	IIT RESEARCH INST CHICAGO IL	Bortz,S. A., Budenholzer,R. A., Carlson,R. D., Fieldhouse,I., Kornfeld,J.	11/1/1979	This program investigated the potential of the Mt. Washington, New Hampshire area for generating electric power from wind energy as an alternative to fossil fuels. The U.S. Naval Shipyard at Portsmouth, New Hampshire is among those facilities which could benefit initially from successful wind generated power. IIT Research Institute (IITRI) specialists performed the following tasks: (1) Evaluation of New Hampshire's wind energy resources for potential electric power generation using meteorological, topographical, biological and other available information, (2) Assessment of the environmental, social, technical, and other possible barriers to the development of wind energy resources, and (3) Economic evaluation of installing one or more wind turbine-generators to supply power either directly to the Shipyard or to lines of the Public Service Company of New Hampshire which supplies the Shipyard.	Final rept. 4 Jun-31 Oct 79,	251	IITRI-M6052 (IITRIM6052)		N00014-79-C-6503 (N0001479C6503)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Abstract/Objective	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Reliability/maintainability Study For Tactical Ground Electronic Shelters</b>	ADA087627	IIT RESEARCH INST ROME NY	Fulton, Donald W.	7/1/1980	IIT Research Institute/Reliability Analysis Center conducted an 8-month study to assess the reliability/maintainability of tactical ground electronic shelters. Data describing the condition of 367 foam and beam shelters and 85 honeycomb shelters were collected by field examination. It was not possible to estimate the reliability of either population of shelters due to the lack of field and depot records required to determine the number and nature of failures. The lack of adequate field maintenance was found to be resulting in expensive depot repair. The data revealed that two percent of the foam and beam shelters and 17.6 percent of the honeycomb shelters were unserviceable and require depot rehabilitation. The report contains frequency of occurrence summaries for the major degradation/damage events observed. (Author)	Final technical rept. May 79-Jan 80	85	RADC-TR-80-235 (RADCTR80235)	TR-80-235 (TR80235), RADC (RADC)	F30602-78-C-0281 (F3060278C0281)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Least Cost Test Profile. Volume I.</b>	ADA117734	IIT RESEARCH INST CHICAGO IL	Steinkirchner, Joseph J.	4/1/1982	IIT Research Institute conducted a 12-month study to develop test profiles for rigid wall tactical shelters. A survey was conducted and operational data were obtained on over 1100 tactical equipment/systems. Test cost data and test results were obtained, and an effort to determine the correct text sequence was instituted. The operational data, test costs, test results and the output from the test sequence effort were used to develop test profiles for eight members of the standard family of shelters. (Author)	Final technical rept. Aug 80-Aug 81,	240	RADC-TR-82-84-VOL-1 (RADCTR8284VOL1)	TR-82-84-VOL-1 (TR8284VOL1)	F30602-80-C-0263 (F3060280C0263)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Least Cost Test Profile. Volume II.</b>	ADA117735	IIT RESEARCH INST CHICAGO IL	Steinkirchner, Joseph J.	4/1/1982	IIT Research Institute conducted a 12-month study to develop test profiles for rigid wall tactical shelters. A survey was conducted and operational data were obtained on over 1100 tactical equipment/systems. Test cost data and test results were obtained, and an effort to determine the correct text sequence was instituted. The operational data, test costs, test results and the output from the test sequence effort were used to develop test profiles for eight members of the standard family of shelters. (Author)	Final technical rept. Aug 80-Aug 81,	362	RADC-TR-82-84-VOL-2 (RADCTR8284VOL2)	TR-82-84-VOL-2 (TR8284VOL2)	F30602-80-C-0263 (F3060280C0263)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Field Antenna Handbook</b>	ADA155204	ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPOLIS MD	Kuch, James A.	6/1/1984	This handbook presents basic propagation theory, the fundamentals concerning antennas, and the design and use of tactical high frequency and very high frequency antennas. It is a field reference for basic antenna facts and a usage guide for antennas. Keywords include: Antennas; High frequency; Propagation; and Very high frequency.	Consulting rept.	87	ECAC-CR-83-200 (ECACCR83200)	ECAC (ECAC)	F19628-80-C-0042 (F1962880C0042)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

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<b>Ada (trade Name) Compiler Validation Summary Report: Rational Environment, Version A.2.0.6 For Rational R1000.</b>	ADA157830	SOFTECH INC FAIRBORN OH		5/24/1985	The purpose of this Validation Summary Report is to present the results and conclusions of performing standardized tests on the Rational Environment. On-site testing was performed 28-30 APR 85 at RATIONAL in Mountain View, CA, under the auspices of the Ada Validation Facility, according to the Ada Validation Office policies and procedures. The Rational Environment is hosted on the R1000 computer. The suite of tests known as the Ada Compiler Validation Capability (ACVC), Version 1.5, was used. The ACVC suite of tests is used to validate conformance of the compiler to ANSI/MIL-STD-1815A (Ada), Not all tests in the ACVC test suite are applicable to a specific implementation, Also, known test errors in Version 1.5 are present in some tests; these tests were withdrawn. The purpose of the testing is to ensure that the compiler properly implements legal language constructs and that it identifies, rejects from processing, and labels illegal language constructs. The testing also identifies implementation-dependent behavior permitted by the standard. Six classes of tests are used. These tests are designed to perform checks at compile time, during execution, and at link time. The ACVC, Version 1.5, contains 2051 tests, of which 1875 were applicable to this implementation. Of the 1875 applicable tests, 78 were withdrawn due to the occurrence of errors in the tests. Results showed that all of the remaining 1797 valid tests were successfully passed by the Rational Environment. A complete list of tests and results is provided in this report. The AVF concluded that the results obtained show acceptable compliance to the January 1983 ANSI Ada Reference Manual. (Author)	Final rept.	48			F33600-84-D-0280 (F3360084D0280)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Extremely Low Frequency (elf) Communications System Ecological Monitoring Program. Summary Of 1984 Progress.</b>	ADA160793	IIT RESEARCH INST CHICAGO IL	Zapotosky,J. E.	7/1/1985	A long-term program is being conducted to monitor for possible effects from the operation of the U.S. Navy's ELF Communications System to resident biota and their ecological relationships. Monitoring studies were selected through a peer-reviewed, competitive bidding process in mid-1982; studies were initiated in late summer of that year. Currently, 16 general types of organisms from three major ecosystems in the ELF Communications System are being examined. During 1984, the Program continued and extended those major activities initiated in 1983, consisting of site selection, the characterization of critical study aspects, and, to a lesser degree, the validation of assumptions made in the original proposals. Progress is summarized for the 11 projects that comprise the Program as well as for the support activities of IIT Research Institute. Keywords include: Extremely low frequency; Electromagnetic fields; Environmental studies; Ecology; ELF Communications System; and ELF Ecological Monitoring Program.	Technical rept. 1 Jan-31 Dec 84,	66	IITRI-E06549-18 (IITRIE0654918)		N00039-84-C-0070 (N0003984C0070)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified



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<b>Chemical Stockpile Disposal Program. Chemical Agent And Munition Disposal. Summary Of The U.s. Army's Experience</b>	ADA193351	PROGRAM MANAGER FOR CHEMICAL DEMILITARIZATION ABERDEEN PROVING GROUND MD	Flamm, Kevin J., Kwan, Quon, McNulty, William B.	9/21/1987	The report was prepared in support of the U.S. Army's Chemical Stockpile Disposal Program (CSDP) Programmatic Environmental Impact Statement, and Discuss the Army's industrial scale chemical agent and munitions disposal experience. Since 1969, when the National Academy of Science recommended that ocean dumping be discontinued as a method of chemical agent and munition disposal, the Army has destroyed nearly 15 million pounds of chemical agents by either chemical neutralization or incineration. This experience has been incorporated into the design of the Johnston Atoll Chemical Agent Disposal System, which is being constructed on a small island in the Pacific Ocean, and the proposed CSDP disposal plants. Keywords: Chemical agents, Disposal, Chemical Stockpile Disposal Program, Rocky Mountain Arsenal, Tooele Army Depot.	Final rept. Jul 1972-Aug 1987	494	SAPEO-CDE-IS-87005 (SAPEOCDEIS87005)	AMCPEO-CDE (AMCPEOCDE)		A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Operation Of Reliability Analysis Center (fy85-87)</b>	ADA205934	IIT RESEARCH INST ROME NY	Lindquist, Kevin L.	8/1/1988	This report presents the updating efforts and the description of research and development efforts undertaken in support of DoD agencies in the area of Reliability and Maintainability. Information is provided concerning the operating costs, technical publications developed, user services provided and income derived for the period 1 October 1984 through 30 September 1987. The RAC technically managed by Rome Air Development Center, is a DoD Information Analysis Center with express purpose of serving as a focal point for the recovery of reliability test and experience data on electronic systems and the components used therein. It is one of several DoD Information Analysis Centers, administratively managed by the Defense Logistics Agency, operating in unique, narrowly defined technical areas. Since its inception in 1968, the RAC has been operated by IIT Research Institute under contract to the Air Force first at its Chicago Headquarters and since 1972 at RADC, Griffiss Air Force Base, New York. The RAC mission is to collect, analyze, synthesize, format and disseminate reliability information on electronic equipments/systems and on the microcircuit, discrete semiconductor and electromechanical components that make up the functional hardware. Analyzed and evaluated reliability information is disseminated through reliability compilations, handbooks, appropriate special publications and direct consulting assistance to support defense systems development and to upgrade their reliability. The RAC engineering services are made available, under service charge arrangements, directly to government agencies and contractors.	Final technical rept. Oct 1984-Sep 1987	124	RADC-TR-88-173 (RADCTR88173)	TR-88-173 (TR88173), RADC (RADC)	F30602-84-C-0162 (F3060284C0162)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

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<b>Test Case Study: Estimating The Cost Of Ada Software Development</b>	ADA209849	IIT RESEARCH INST LANHAM MD		4/1/1989	The Ada Joint Program Office has had a number of inquiries on how to estimate the cost of Ada projects, and specifically whether current software cost models that are non-Ada specific can be successfully used to estimate the cost of Ada development efforts. No independent data currently exists that addresses the fidelity of cost models to predict Ada software costs accurately. IIT Research Institute has performed a study for the U.S. Air Force Cost Center and the U.S. Army Cost and Economic Analysis Center, under sponsorship of the AJPO, to assess the accuracy of current cost models for Ada software cost estimation. The study focussed on six cost estimation models and their philosophies regarding Ada. The bases for these models present different views of the model developers relative to the costing issues. An essential part of the research is a test case study in which the cost models were applied to a database of eight completed Ada projects.		199		AJPO (AJPO)	F19628-89-C-0001 (F1962889C0001)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Proceedings Of The Digital/electronic Terrain Board Symposium Held In Wichita, Kansas On 5-6 October 1989</b>	ADA220643	TACTICAL WEAPONS GUIDANCE AND CONTROL INFORMATION ANALYSIS CENTER CHICAGO IL	Hoover, Carl W., Jr	2/1/1990	The Digital/Electronic Terrain Board Symposium was organized for the objective of providing an opportunity for those working in the field to discuss and demonstrate their state-of-the-art and to uncover areas of duplication and gaps in these efforts. The symposium was held 5-6 October 1989 at Boeing Military Airplane Co., Witchita Kansas, in conjunction with the 23rd meeting of the Automatic Target Recognizer Working Group. The Proceedings contain 23 papers which address various aspects of D/ETB technology including algorithm development, image generation, scene modeling, multi-sensor fusion and simulation. Acoustic, infrared, 3-D radar and laser radar imagery were the topics of several papers. The effects of atmospheric turbulence and smart weapons applications were also discussed. (kr)	Rept. for Oct 1989-Feb 1990,	314	GACIAC-PR-89-07 (GACIACPR8907)	USAMC (USAMC)		A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

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<b>Production Of Jet Fuels From Coal-derived Liquids. Volume 13. Evaluation Of Storage And Thermal Stability Of Jet Fuels Derived From Coal Liquids</b>	ADA224576	NATIONAL INST FOR PETROLEUM AND ENERGY RESEARCH BARTLESVILLE OK	Sturm, Jr., G. P., Grigsby, R. D., Goetzinger, J. W., Green, J. B., Anderson, R. P.	5/1/1990	In September 1986, the Fuels Branch of the Aero Propulsion Laboratory of WPAFB, OH, began an investigation of the potential of the production of jet fuel from the liquid by-products streams produced by the gasification of lignite at the Great Plains Gasification Plant (GPGP) in Beulah, North Dakota. Funding was provided to the Department of Energy, Pittsburgh Energy Technology Center, to administer the experimental portion of this effort. This report details the program with the National Institute for Petroleum and Energy Research of the IIT Research Institute to study the storage and thermal stability of a JP-8 fuel produced from the GPGP liquid by-products streams. Sediments and deposits from stability tests were analyzed by IR and probe microdistillation/high resolution mass spectroscopy. Results were compared with corresponding results from a conventional petroleum-derived JP-8 fuel. Keywords: Jet engine fuels; Turbine fuels, Coal liquids; Storage stability; Thermal stability; Mass spectrometry; Sediment analysis; Deposit analysis.	Interim rept. Aug 1988-Dec 1989	69	AFWAL-TR-87-2042-VOL-13 (AFWALTR872042VOL13)	TR-87-2042-VOL-13 (TR872042VOL13)	DE-FC22-83FE60149 (DEFC2283FE60149), MIPR-FY1455-86-N0657 (MIPRFY145586N0657)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>Elf Communications System Ecological Monitoring Program: Electromagnetic Field Measurements And Engineering Support-1990</b>	ADA272097	IIT RESEARCH INST CHICAGO IL	Haradem, D. P., Gauger, J. R., Zapotosky, J. E.	7/1/1991	The ELF Communications System enables the U.S. Navy to communicate with submarines worldwide at opera depth and speed. The system consists of transmitting facilities in Wisconsin and Michigan that synchronously broadcast messages. Transmitters became fully operational in Wisconsin in 1985 and in Michigan in 1989. In-situ studies to monitor for possible bioelectromagnetic effects from operation of both transmitters were initiated in 1982. The studies use a split-plot or blocked strategy to examine differences in space (treatment/ control sites) or time (preoperational/operational). Physiological, developmental, behavioral, and ecological variables for dominant biota in upland, wetland, and riverine habitats near the ELF System have been examined in these studies. In Wisconsin, dam collection for all studies was completed by the end of 1989; in Michigan, studies continued during 1990. It is anticipated that dam collection will continue at Michigan study sites through 1993. In support of this research, IIT Research Institute annually documents the ambient ELF electromagnetic (EM) environment, including EM fields produced by both the ELF System and electric power distribution (60 Hz). is report documents ELF EM field intensities at all study sites active in 1990, and is comprehensive for the period 1983-1990. Other engineering activities performed during 1990 in support of the ecological studies are also described. Extremely Low Frequency, Ecology, Electromagnetic Fields, ELF Communications System,	Technical rept. 1983-1990,	304	IITRI-TR-E06628-3 (IITRITRE066283)	SPAWAR (SPAWAR)	N00039-88-C-0065 (N0003988C0065)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Abstract/Objective	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Elf Communications System Ecological Monitoring Program: Electromagnetic Field Measurements And Engineering Support-1991	ADA272098	IIT RESEARCH INST CHICAGO IL	Haradem, D. P., Gauger, J. R., Zapotosky, J. E.	12/1/1992	The ELF Communications System enables the U.S. Navy to communicate with submarines worldwide at operational depth and speed. The system consists of transmitting facilities in Wisconsin and Michigan that synchronously broadcast messages. Transmitters became fully operational in Wisconsin in 1985 and in Michigan in 1989. In situ studies to monitor for possible bioelectromagnetic effects from operation of both transmitters were initiated in 1982. The studies use a split-plot or blocked strategy to examine differences in space (treatment/control sites) or time (preoperational/operational). Physiological, developmental, behavioral, and ecological variables for dominant biota in upland, wetland, and riverine habitats near the ELF System have been examined in these studies. In Wisconsin, data collection for all studies was completed by the end of 1989; in Michigan, studies continued during 1991. It is anticipated that data collection will continue at Michigan study sites through 1993. In support of this research, IIT Research Institute annually documents the ambient ELF electromagnetic (EM) environment, including EM fields produced by both the ELF System and electric power distribution (60 Hz). This report documents ELF EM field intensities at all study sites active in 1991, and is comprehensive for the period 1983-1991. Other engineering activities performed during 1991 in support of the ecological studies are also described.	Technical rept. 1983-1991,	318	IITRI-TR-D06200-4 (IITRITRD062004)	SPAWAR (SPAWAR)	N00039-88-C-0065 (N0003988C0065)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Abstract/Objective	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
Elf Communications System Ecological Monitoring Program: Electromagnetic Field Measurements And Engineering Support-1992.	ADA272099	IIT RESEARCH INST CHICAGO IL	Haradem, D. P., Gauger, J. R., Zapotosky, J. E.	7/1/1993	The ELF Communications System enables the U.S. Navy to communicate with submarines worldwide at operational depth and speed. The system consists of transmitting facilities in Wisconsin and Michigan that synchronously broadcast messages. Transmitters became fully operational in Wisconsin in 1985 and in Michigan in 1989. In situ studies to monitor for possible bioelectromagnetic effects from operation of both transmitters were initiated in 1982. The studies use a split-plot or blocked strategy to examine differences in space (treatment/control sites) or time (preoperational/operational). Physiological, developmental, behavioral, and ecological variables for dominant biota in upland, wetland, and riverine habitats near the ELF system have been examined in these studies. In Wisconsin, data collection for all studies was completed by the end of 1989; in Michigan, studies continued during 1992. Data collection will continue at Michigan study sites through 1993. In support of this research, IIT Research Institute annually documents the ambient ELF electromagnetic EM) environment, including EM fields produced by both the ELF system and electric power distribution (60 Hz). This report documents ELF EM field intensities at all study sites active in 1992, and is comprehensive for the period 1983-1992. Other engineering activities performed during 1992 in support of the ecological studies are also described. Extremely low frequency, Ecology, Electromagnetic fields, ELF Communications system, Environmental studies, ELF Ecological program.	Technical rept. 1983-1992,	339	IITRI-TR-D06205-1 (IITRITRD062051)	SPAWAR (SPAWAR)	N00039-93-C-0001 (N0003993C0001)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Abstract/Objective	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Elf Communications System Ecological Monitoring Program: Electromagnetic Field Measurements And Engineering Support</b>	ADA280489	IIT RESEARCH INST CHICAGO IL	Haradam, D. P., Gauger, J. R., Zapotosky, J. E.	4/1/1994	The ELF Communications System enables the U.S. Navy to communicate with submarines worldwide at operational depth and speed. The system consists of transmitting facilities in Wisconsin and Michigan that synchronously broadcast messages. Transmitters became fully operational in Wisconsin in 1985 and in Michigan in 1989. In situ studies to monitor for possible bioelectromagnetic effects from operation of both transmitters were initiated in 1982. The studies use a split-plot or blocked strategy to examine differences in space (treatment/control sites) or time (preoperational/operational). Physiological, developmental, behavioral, and ecological variables for dominant biota in upland, wetland, and riverine habitats near the ELF system have been examined in these studies. In Wisconsin, data collection for all studies was completed by the end of 1989; in Michigan, data collection continued through 1993. In support of this research, IIT Research Institute has annually documented the ambient ELF electromagnetic (EM) environment, including EM fields produced by both the ELF system and electric power distribution (60 Hz). This report documents ELF EM field intensities at all study sites active in 1993, and is comprehensive for the period 1983-1993. Other engineering activities performed during 1993 in support of the ecological studies are also described.	Final rept.	377		SPAWAR (SPAWAR)	N00039-93-C-0001 (N0003993C0001)	A - 01 - APPROVED FOR PUBLIC RELEASE, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Approved for public release; distribution is unlimited. Document partially illegible.	U - Unclassified
<b>Tirem/sem Handbook.</b>	ADA296913	ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPOLIS MD	Eppink, David, Kuebler, Wolf	3/1/1994	This document provides a description of the operation of the Terrain Integrated Rough Earth Model (TIREM) and the Spherical Earth Model (SEM), including the engineering formulations on which the models are based. Both models are modular programs with many common subroutines that conform with ANSI Fortran standards. TIREM and SEM can be used as independent propagation models for rough earth (with a known terrain profile) or smooth earth applications, respectively. Both models consider the effects of free space spreading, reflection, surface wave propagation, diffraction, tropospheric scatter propagation, and atmospheric absorption, as appropriate.		131	ECAC-HDBK-93-076 (ECACHDBK93076)	ESC* (ESC)		A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Abstract/Objective	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Modern Control Theory; State-of-the-art Review</b>	ADA314431	TACTICAL WEAPONS GUIDANCE AND CONTROL INFORMATION ANALYSIS CENTER CHICAGO IL	Heaston, Robert J.	12/1/1995	Modern control theory is based on abstract mathematical concepts and its development uses a system of notation and terminology largely incomprehensible to engineers and managers not skilled in the art. As a body of knowledge, modern control theory encompasses all of classical control system design, augmented with computational techniques largely developed over the past two decades. Although these techniques are highly mathematical in nature, a knowledge of their general approaches and some familiarity with their results is necessary to appreciate and comprehend their intended applications. This review attempts to explain the concepts, advantages, and limitations of modern control theory in layman's language to the extent possible. This GACIAC State-of-the-Art Review (SOAR) focuses on the application of selected concepts and mathematical tools drawn from modern control theory to the design and development of weapon guidance and control systems. This review addresses the basic concepts of this technology, their present application, and their future potential.	Rept. for Dec 90-Sep 95	387	GACIAC-SOAR-95-01 (GACIACSOAR9501)	AMSMI (AMSMI)	DLA900-93-D-0011 (DLA90093D0011)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Current Trends In Smart Weapons.</b>	ADA363809	DEFENSE MODELING SIMULATION AND TACTICAL TECHNOLOGY INFORMATION ANALYSIS CENTER HUNTSVILLE AL	Hayes, Rick	7/1/1997	Over the last thirty years or so major advances have been made in the development of seekers and sensors for use on smart weapons. The American public had its first look at smart weapons when they watched guided bombs used against targets in North Vietnam. Their most recent look has been at guided bombs being dropped on Iraq. However, during this time many advanced technologies have evolved that provide seekers and sensors for smart weapons that operate in bands of the electromagnetic spectrum that are not visible to the human eye. Therefore, they do not send back information (pictures) that can be used on television. This assessment will review the technologies currently being used or under development for the seekers and sensors of smart weapons, and identify trends for the future.	Technical assessment,	8	DMSTTIAC-TA-97-03 (DMSTTIAC9703)	DTIC/FB (DTICFB)		A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>A Hierarchy Of Models And Simulations Used In Support Of System Acquisition.</b>	ADA363862	DEFENSE MODELING SIMULATION AND TACTICAL TECHNOLOGY INFORMATION ANALYSIS CENTER HUNTSVILLE AL	Douglas, Mitchell	4/1/1999	This document is an assessment of the various steps within the M&S hierarchy typically used in the system acquisition life cycle of a weapon system. This assessment addresses the different levels of M&S fidelity and scope within a hierarchy and how the IPPD management technique utilizes the M&S results to support the Milestone Decision Authority (MDA) associated with system acquisition. Also, this document addresses interoperability between the different levels of within the hierarchy and provides a recommended effort between two popular M&S currently being used by a variety of DoD agencies. These are the FireSim21 force level and GENEric Smart Indirect fire (GENESIS) many on many engagement level M&S.	Technical assessment,	22	DMSTTIAC-TA-99-02 (DMSTTIAC9902)	DTIC/FB (DTICFB)	DAAH01-95-C-0310 (DAAH0195C0310)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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<b>Achromatization Of Debye-Scherrer Lines</b>	ADA382031	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Ekstein, Hans, Siegel, Stanley	4/1/1951	A method is described for reducing the width of a Debye-Scherrer line produced by diffraction from a polycrystalline medium, if this width is due to the spectral impurity of the primary characteristic radiation. In this method, a diverging polychromatic beam is allowed to fall on the plane surface of a single crystal. The beam diffracted by this crystal will diverge and will contain a bundle of rays whose wavelength range corresponds to the finite spectral width of the characteristic radiation. The polycrystalline sample is mounted normal to this bundle. It is shown that the different wave lengths diffracted by the sample can be brought to a narrow focal spot.	Technical note	21	NACA-TN-2355 (NACATN2355)	TN-2355 (TN2355), NASA (NASA)		A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Shock Impingement Experiments On Crushable Solids</b>	ADA382588	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Lieberman, P., Zaker, T. A.	6/1/1959	A 2-in. inside diameter shock tube was used to generate strong flat-topped shock waves in argon for impingement against cylindrical specimens of celotex, redwood, and sugar pine up to 6 in. in length. Shock pressures up to 120 atmospheres were induced in the specimens immediately following impingement. Piezoelectric crystal pressure sensors were used to record pressure-time histories in the gas upstream of the gas-solid interface. A method of obtaining points on the shock pressure-specific volume curve (the Hugoniot) for each solid from the experimental data is given in the present report. The results for each material are presented graphically, and are compared with isothermal confined static compression data. Rather large volume changes are evidenced in shock at pressures in the neighborhood of the crushing strength for each material. The crushing strength of celotex in shock appears to be well above its confined static crushing strength, and the crushing strengths in shock of redwood and sugar pine appear to be somewhat below the corresponding static crushing strengths.		100	ARF-4132-10 (ARF413210)	XD (XD)	AT(11-1)-528 (AT111528)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified



Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Abstract/Objective	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>Point Source Explosion In A Solid</b>	ADA396257	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Zaker, T. A.	11/1/1959	This report presents an approximate theory of the growth of a point source explosion in an infinite solid or liquid medium in the range of shock pressure below that required to induce a physical change of phase of the material, and above pressures at which the wave propagation can be considered acoustic. The analysis is based on the characterization of the shock state locus for the material by a general form containing three constants related to the compressibility of the material. Both porous and non-porous solids are considered. Peak shock pressure and arrival time data obtained by machine calculation as functions of shock radius are presented graphically and numerically in dimensionless form for several values of the compressibility constants involved. Methods of deducing values of the constants from compressibility data for particular materials are presented. The results are applicable to estimates of shock attenuation in a variety of blast absorbing or shielding materials.	Research and development rept.	113	ARF-4132-6 (ARF41326)	AEC (AEC)	AT(11-1)-528 (AT111528)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Propagation Of Pressure Waves In A Mixture Of Water And Stream</b>	ADA396445	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Karplus, H. B.	1/1/1961	The velocity of sound in mixtures of water and steam has been computed from the slope of the lines of equal entropy over a wide range of ambient conditions up to the critical point. The sound velocity is lower in the mixture than in either constituent. It changes discontinuously on transition to the single phase in wet steam with just a trace of liquid. The velocity is about 10 per cent less than in dry steam. The velocity decreases monotonically with increasing water content. In boiling water the velocity is very low. The smallest value occurs at reduced pressure at the triple point (with no solid ice present); the velocity here is as low as 0.012 m/s. Rankine-Hugoniot curves were calculated for the mixture. These show that a shock-like compression in very wet steam or boiling water will condense all the steam giving rise to a large change in volume with very little rise in pressure. The Hugoniot curve lies very close to a line of constant entropy in this case. For high quality steam the compression will raise the temperature of the vapor and evaporate the liquid phase. This occurs far from constant entropy conditions, indicating a strong loss mechanism. In boiling water the propagation was studied with pressure waves having an amplitude exceeding the minimum necessary to condense all the steam. The velocity decreases monotonically with decreasing driving pressure, approaching the small amplitude acoustic velocity when the driving pressure approaches the minimum necessary to condense all the steam. In a straight pipe of boiling water true shocks were not propagated. The rise time of the compression wave steadily increases as it passes through the medium. On finally reaching a		91	ARF-4132-12 (ARF413212)	AEC (AEC)	AT(11-1)-528 (AT111528)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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<b>Wstiac: Weapon Systems Technology Information Analysis Center. Volume 3, Number 1</b>	ADA399545	WEAPON SYSTEMS TECHNOLOGY INFORMATION ANALYSIS CENTER ALEXANDRIA VA		12/1/2001	The WSTIAC Newsletter is the current awareness publication of the Weapon Systems Technology Information Analysis Center (WSTIAC). IIT Research Institute operates WSTIAC, which services government, industry, and academia as a Center for Excellence in Weapons Systems Technology. This particular issue contains articles on warhead design, homeland defense, calendar of events, smart weapons training, and news.		12		DTIC/FB (DTICFB)		A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Supply Chain Viability For The North American Microwave Power Tube Industry</b>	ADA435249	MANUFACTURING TECHNOLOGY INFORMATION ANALYSIS CENTER CHICAGO IL	Philippi, Therese M.	9/30/2002	The DoD Defense Production (DPA) Act Title III program sponsored this project in response to a critical supply base issue with the objective of strengthening the supplier base to ensure it's future viability. Microwave Power Tubes (MPTs) are of critical concern because of their extensive use in military weapon systems and the limited number of suppliers. The products addressed are helix tape, heater filaments, and cathodes. The project team included IIT Research Institute (IITRI) and four subtier suppliers: Semicon Associates, Spectra-Mat, Inc. (SMI), H. Cross Co. and Union City Filament Corp. Boeing Electron Dynamic Devices (EDD), Communication and Power Industries (CPI), and Northrop Grumman Electronic Systems, three of the industry's major MPT producers, served as technical advisors. This task sought to resolve not only general, industry-wide issues, but company specific problems as well. The overall benefits and implications to DoD include: Reduced risk to DoD of production shortfalls; a more responsive supply base, especially for meeting military "surge" requirements; reduced risk of losing the manufacturing process knowledge for these components; lower cost due to simplification of some processes; strategic marketing is enhancing the overall business viability of the four suppliers, especially in recent economic uncertainty; and the adaptation of modern manufacturing engineering tools will position this segment of the supply chain to meet not only the needs of DoD today, but in the future as well. Development of two engineering specifications (EIA-940 and EIA-941) was also a major achievement. Prior to this task, the industry lacked specifications or standards that sufficiently defined performance	Final rept. 22 Sep 2000-30 Sep 2002	45		AFRL/MLOP (AFRLMLOP)	SPO700-97-D-4005 (SPO70097D4005)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

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Quench Press Hardening With Low Copper Plating. Management And Operation Of The Dod Instrumented Factory For Gears	ADA435913	IIT RESEARCH INST CHICAGO IL		3/28/2001	Copper plating is used as a carbon stop-off during the carburization and austenitization operations associated with the manufacture of precision gears. The "Low Copper" project's goals were to optimize the thickness of copper needed during carburization, and to eliminate the need to re-plate copper prior to austenitizing, via atmosphere control in a rotary furnace. Traditionally, plating that is 0.001 to 0.003 inch thick is used as a carbon stop-off. Experimentation was aimed at reducing this thickness to between 0.0001 to 0.0005 inch, roughly an order of magnitude thinner. Three designed experiments were performed by IIT Research Institute. Honeywell Engines & Systems of Phoenix, AZ followed the experimentation at IIT Research Institute by performing preproduction tests and additional experiments. Honeywell also prepared a cost benefit analysis to detail and document the projected process savings that could be gained by implementation of the technique. An industry-wide cost-benefit analysis and implementation plan is included. Annual savings realized by pervasive implementation of the technique were estimated at over \$1,000,000 per year.	Final rept.	114	INFAC-01-008 (INFAC01008)	AMSAM (AMSAM)	DAAJ09-95-C-0546 (DAAJ0995C0546)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited., Availability: This document is not available from DTIC in microfiche.	U - Unclassified

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<b>Software Tools For Shipbuilding Productivity</b>	ADA444583	GRUMMAN AEROSPACE CORP BETHPAGE NY	Pleroth, C., Skirkanich, R.	12/1/1984	The objectives of this study are to define and identify software tools, and to impart to the shipbuilding community the knowledge to use them to aid in the design/production integration of the shipbuilding process. The approach taken in this study has been to: o Research, review and define the CAD/CAM integration process o Develop selected scenarios of modern CAD/CAM integration methods o Isolate and research software aspects of CAD/CAM scenarios; select and list application areas for software tools to (potentially) increase productivity for the integration process defined o On-site visits to shipyards to review prepared CAD/CAM scenarios and software tools to define applicability of technologies, need for changes and knowledge-level of potential users o Collect, reduce and review data from on-site visits o Create a scenario adapted to the real-world of shipbuilding; identify critical software needs and select useful software tools o Select a shipbuilding scenario and determine software needs to actually generate the integrated system; outline a means to calculate potential savings through the use of software tools. The material presented is ordered as outlined, and is followed by a catalog of software tools, and a recommended means of distributing results to the shipbuilding community. A glossary of acronyms is also included. There is no attempt made to specify currently in use, or projected hardware/software systems in either the computer, or approximately performed by separately. CAD/CAM device arena. This task has been undertaken in the same timeframe as this study by the CAD/CAM Survey Study the Chicago-based IIT Research Institute which is reported separately.	Final rept.	232		CARDEROCKMD (CARDEROCKMD)	DTMA91-82-C-20018 (DTMA9182C20018)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
<b>The Shock And Vibration Symposium (16th) Was Held At The Armor Research Foundation Technology Center, Chicago, Illinois On 18-19 October 1950,</b>	ADA800279	RESEARCH AND DEVELOPMENT BOARD WASHINGTON DC	Griffis, L. V., Swan, H. G., Bolton, H. C.	10/1/1950			144		XD (XD)		A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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Research And Development Of Counter Measures Recording Equipment, Models, Test Equipment, And Reports. Volume 1. Magnetic Recording, 1 December 1949 Through 31 December 1951	ADA800299	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Chynoweth, W. R., Tobey, A. R., Miller, H. C.	1/15/1952		Final engineering rept.	92	90-783A-12 (90783A12)	ASD (ASD)	AF 33(038)-8921 (AF330388921)	A - 01 - APPROVED FOR PUBLIC RELEASE, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Approved for public release; distribution is unlimited. Document partially illegible.	U - Unclassified
Methods Of Separation Of Total Rare Earths In Low-alloy Constructional Steels.	ADA950455	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Dupraw,William A.	11/2/1955		Final technical rept. 29 Jun 54-28 Jun 55,	50	WAL-120/73-1 (WAL120731)	120/73-1 (120731)	DAI-11-022-ORD-(P)-6 (DAI11022ORDP6 )	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development Of A Method To Determine Plastic Strains And Stresses Using Brittle Coatings.	ADA951438	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hofer,Kenneth E. , Jr	6/1/1959		Final rept. Nov 56-31 May 59,	143	WAL-367/89-1 (WAL367891)	367/89-1 (367891)	DA-11-022-ORD-2346 (DA11022ORD2346)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Electroplating On Titanium.	ADA951667	ARMOUR RESEARCH FOUNDATION CHICAGO IL		9/30/1951		Interim technical rept. no. 1, 1 Jun-30 Sep 51.	19	WAL-401/46-4 (WAL401464)	401/46-4 (401464)	DA-11-022-ORD-260 (DA11022ORD260)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 3. Rocket Nozzle Materials.	ADA951687	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Parikh,N. M.	1/30/1963		Quarterly rept. 1 Oct-31 Dec 62,	18	WAL-TR-372/32-7 T3 (WALTR372327T3 )	TR-372/32-7-T3 (TR372327T3)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 1. Zone Refining Of Cemented Tungsten-base Alloys.	ADA951688	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Parikh,N. M.	5/16/1963		Quarterly rept. 1 Jan-31 Mar 63,	15	WAL-TR-372/32-8-T1 (WALTR372328T1)	TR-372/32-8-T1 (TR372328T1)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development And Application Of A Theory Of Plastic Deformation Of Cemented Alloys	ADA951689	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Parikh, N. M.	3/23/1961		Technical rept.	70	ARF-2182-12 (ARF218212), WAL-372/32 (WAL37232)	372/32 (37232), WAL (WAL)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE, 23 - DOCUMENT PARTIALLY ILLEGIBLE	Availability: Document partially illegible.	U - Unclassified
Development Of Protective Coating For Titanium And Titanium Alloys.	ADA951691	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Reding,John N., Colner,William H., Feinleib,Morris	8/31/1952		Final rept. 1 Jun 51-31 Aug 52,	16	WAL-401/46-16 (WAL4014616)	401/46-16 (4014616)	DA-11-022-ORD-260 (DA11022ORD260)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 1. Zone Refining Of Cemented Tungsten-base Alloys.	ADA951698	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Parikh,N. M.	4/27/1962		Quarterly rept. 1 Jan-31 Mar 62,	14	WAL-TR-372/32-4-T1 (WALTR372324T1)	TR-372/32-4-T1 (TR372324T1)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Electroplating On Titanium.	ADA951701	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Schick,Harold L.	9/30/1953		Final rept. 1 Sep 52-30 Sep 53,	12	WAL-401/46-29 (WAL4014629)	401/46-29 (4014629)	DA-11-022-ORD-1045 (DA11022ORD1045)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 2. Ductile High-temperature Tungsten Alloys.	ADA951711	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Weinstein,D., Holtz,F. C.	7/28/1961		Technical rept.,	27	WAL-372/32-1 (WAL372321)	372/32-1 (372321)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 1. Zone Refining Of Cemented Tungsten-base Alloys.	ADA951717	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Parikh,N. M.	1/29/1962		Quarterly rept. 1 Oct-31 Dec 61,	21	WAL-TR-372/32-3-T1 (WALTR372323T1)	TR-372/32-3-T1 (TR372323T1)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 3. Rocket Nozzle Materials.	ADA951718	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Parikh,N. M.	1/31/1964		Final rept. Jul 61-Dec 63,	76	WAL-TR-372/32-10-T3 (WALTR3723210T3)	TR-372/32-10-T3 (TR3723210T3)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 1. Zone Refining Of Cemented Tungsten-base Alloys.	ADA951719	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Parikh,N. M.	1/30/1963		Technical rept.,	11	WAL-TR-372/32-7-T1 (WALTR372327T1)	TR-372/32-7-T1 (TR372327T1)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 1. Zone Refining Of Cemented Tungsten-base Alloys.	ADA951720	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Parikh,N. M.	7/25/1962		Quarterly rept. no. 4, 1 Apr-30 Jun 62,	7	WAL-TR-372/32-5T1 (WALTR372325T1)	TR-372/32-5-T1 (TR372325T1)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 1. Zone Refining Of Cemented Tungsten-base Alloys.	ADA951721	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Parikh,N. M.	1/31/1964		Final rept. Jul 61-Dec 63,	66	WAL-TR-372/32-9T1 (WALTR372329T1)	TR-372/32-9-T1 (TR372329T1)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Surface Hardening Of Titanium With Metalloid Elements.	ADA951727	ARMOUR RESEARCH FOUNDATION CHICAGO IL		5/31/1955		Final technical rept. 1 Jun 53-31 May 55.	104	WAL-401/84-55 (WAL4018455)	401/84-55 (4018455)	DA-11-002-ORD-1319 (DA11002ORD1319)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 3. Copper-cooled Tungsten Fiber Rocket Nozzle Materials.	ADA951733	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Koppenaar,T. J.	1/29/1962		Quarterly rept. no. 2, 1 Oct-31 Dec 61,	17	WAL-TR-372/32-3T3 (WALTR372323T3)	TR-372/32-3-T3 (TR372323T3)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified



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Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 3. Copper-cooled Tungsten Fiber Rocket Nozzle Materials.	ADA951766	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Parikh,N.M.	7/25/1962		Quarterly rept. 1 Apr-30 Jun 62,	11	WAL-TR-372/332-5-T3 (WALTR3723325T3)	TR-372/332-5-T3 (TR3723325T3)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 3. Copper-cooled Tungsten Fiber Rocket Nozzle Materials.	ADA951767	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Parikh,N.M.	4/27/1962		Quarterly rept. 1 Jan-31 Mar 62,	11	WAL-TR-372/32-4-T3 (WALTR372324T3)	TR-372/32-4-T3 (TR372324T3)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development Of Protective Coating For Titanium And Titanium Alloys.	ADA951768	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Colner,William H., Feinleib,Morris, Francis,Howard T., Lubker,R. A.	1/31/1952		Interim technical rept. no. 2. 1 Oct 51-31 Jan 52,	12	WAL-401/46-9 (WAL401469)	401/46-9 (401469)	DA-11-022-ORD-260 (DA11022ORD260)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Solid Solution Hardening Of Alpha And Beta Titanium.	ADA952178	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rausch,J. J., McPherson,D. J.	2/28/1954		Interim technical rept. no. 2, 1 Dec 53-28 Feb 54,	16	WAL-401/204-3 (WAL4012043)	401/204-3 (4012043)	DA-11-022-ORD-1439 (DA11022ORD1439)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Solid Solution Hardening Of Alpha And Beta Titanium.	ADA952203	ARMOUR RESEARCH FOUNDATION CHICAGO IL	McAndrew,J. B., Kessler,H. D.	11/30/1953		Interim technical rept. no. 1, 19 Aug-30 Nov 53,	14	WAL-401/204-2 (WAL4012042)	401/204-2 (4012042)	DA-11-022-ORD-1439 (DA11022ORD1439)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Solid Solution Hardening Of Alpha And Beta Titanium.	ADA952211	ARMOUR RESEARCH FOUNDATION CHICAGO IL		8/19/1955		Final technical rept. 19 Aug 53-19 Aug 55.	101	WAL-401/204-5 (WAL4012045)	401/204-5 (4012045)	DA-11-022-ORD-1439 (DA11022ORD1439)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Heat Treatment Of Large Sections Of Titanium Alloys.	ADA952220	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Elliott,Rodney P.	12/15/1955		Final technical rept.,	90	WAL-401/230-1 (WAL4012301)	401/230-1 (4012301)	DAI-11-022-505-ORD-P-5 (DAI11022505ORDP5)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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Surface Hardening Of Titanium With Metalloid Elements.	ADA952224	ARMOUR RESEARCH FOUNDATION CHICAGO IL		11/30/1954		Interim technical rept. no. 3, 1 Jun-30 Nov 54.	51	WAL-401/84-42 (WAL4018442)	401/84-42 (4018442)	DA-11-022-ORD-1319 (DA11022ORD1319)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
The Direct Determination Of Oxygen And Nitrogen In Titanium And Titanium Alloys Using Bromine Trifluoride.	ADA952237	ARMOUR RESEARCH FOUNDATION CHICAGO IL		2/22/1956		Final technical rept.	29	WAL-401/232 (WAL401232)	401/232 (401232)	DAI-11-022-ORD-(P)-7 (DAI11022ORDP7)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Heat Treatment Of Large Sections Of Titanium Alloys	ADA952238	ARMOUR RESEARCH FOUNDATION CHICAGO IL		10/29/1954		Interim technical rept. no. 1	12	WAL-401/230 (WAL401230)	401/230 (401230), WAL (WAL)	DAI-022-ORD-(P)-5 (DAI022ORDP5)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified
Brazing And Soldering Of Titanium And Its Alloys.	ADA952243	ARMOUR RESEARCH FOUNDATION CHICAGO IL	DeCecco,N. A., Banks,Robert R., Parks,John M.	1/31/1952		Interim technical rept. no. 1, 1 Sep 51-31 Jan 52,	28	WAL-401/96-7 (WAL401967)	401/96-7 (401967)	DA-11-022-ORD-288 (DA11022ORD288)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Surface Hardening Of Titanium With Metalloid Elements.	ADA952247	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hanzel,R. W., Pulsifer,Verne	1/29/1954		Interim technical rept. 1 Jun-30 Nov 53,	40	WAL-401/84-35 (WAL4018435)	401/84-35 (4018435)	DA-11-022-ORD-1319 (DA11022ORD1319)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Solid Solution Hardening Of Alpha And Beta Titanium.	ADA952256	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rausch,J. J., McPherson,D. J., Lubker,R. A.	8/19/1954		Summary rept. 19 Aug 53-19 Aug 54,	86	WAL-401/204-4 (WAL4012044)	401/204-4 (4012044)	DA-11-022-ORD-1439 (DA11022ORD1439)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development Of Phase Equilibrium Diagrams For The Titanium-rich Portions Of The Ternary Systems.	ADA952266	ARMOUR RESEARCH FOUNDATION CHICAGO IL		2/28/1953		Final technical rept. 1 Oct 51-28 Feb 53.	110	WAL-401/107-18 (WAL40110718)	401/107-18 (40110718)		A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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<b>Development Of Phase Equilibrium Diagrams For The Titanium-rich Portions Of The Ternary Systems Ti-mn-al, Ti-cr-mo, And Ti-mn-mo.</b>	ADA952269	ARMOUR RESEARCH FOUNDATION CHICAGO IL		1/31/1952		Interim technical rept. no. 1, 1 Oct 51-31 Jan 52.	47	WAL-401/107-4 (WAL4011074)	401/107-4 (4011074)	DA-11-022-ORD-272 (DA11022ORD272)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Research And Development Toward Improving Titanium-aluminum Binary Alloys By The Addition Of A Third Component.</b>	ADA952280	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kessler,H. D.	8/31/1952		Summary rept. 1 Sep 51-31 Aug 52,	111	WAL-401/103-18 (WAL40110318)	401/103-18 (40110318)	DA-11-022-ORD-244 (DA11022ORD244)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Research And Development Toward Improving Titanium-aluminum Binary Alloys By The Addition Of A Third Component.</b>	ADA952281	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Kessler,H. D.	4/30/1952		Interim technical rept. no. 2, 1 Jan-30 Apr 52,	40	WAL-401/103-11 (WAL40110311)	401/103-11 (40110311)	DA-11-022-ORD-244 (DA11022ORD244)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Research And Development Toward Improving Titanium-aluminum Binary Alloys By The Addition Of A Third Component.</b>	ADA952284	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Lillie,C. Robert, Kessler,H. D., Hansen,M.	4/30/1953		Interim technical rept. no. 5, 1 Jan-30 Apr 53,	35	WAL-401/103-27 (WAL40110327)	401/103-27 (40110327)	DA-11-022-ORD-244 (DA11022ORD244)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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Development Of Phase Equilibrium Diagrams For The Titanium-rich Portions Of The Ternary Systems Ti-mn-al, Ti-cr-mo, And Ti-mn-mo.	ADA952285	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rostoker,W., McPherson,D. J., Hansen,M.	6/19/1952		Interim technical rept. no. 2, 1 Feb-31 May 52,	27	WAL-401/107-9 (WAL4011079)	401/107-9 (4011079)	DA-11-022-ORD-272 (DA11022ORD272)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development Of Phase Equilibrium Diagrams For The Titanium-rich Portions Of The Ternary Systems Ti-mn-al, Ti-cr-mo, And Ti-mn-mo.	ADA952290	ARMOUR RESEARCH FOUNDATION CHICAGO IL		9/1/1952		Interim technical rept. no. 3, 1 Jun-1 Sep 52.	33	WAL-401/107-14 (WAL40110714)	401/107-14 (40110714)	DA-11-022-ORD-272 (DA11022ORD272)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Research And Development Toward Improving Titanium-aluminum Binary Alloys By The Addition Of A Third Component.	ADA952291	ARMOUR RESEARCH FOUNDATION CHICAGO IL		12/31/1952		Interim technical rept. no. 4, 1 Sep-31 Dec 52.	24	WAL-401/103-20 (WAL40110320)	401/103-20 (40110320)	DA-11-022-ORD-244 (DA11022ORD244)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Brazing And Soldering Of Titanium And Its Alloys.	ADA952292	ARMOUR RESEARCH FOUNDATION CHICAGO IL		1/31/1953		Final technical rept. 1 Sep 51-31 Jan 53.	118	WAL-401/96-15 END (WAL4019615END)	401/96-15 END (4019615END)	DA-11-022-ORD-288 (DA11022ORD288)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development Of Titanium-base Alloys Of High Strength And Toughness.	ADA952297	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Lillie,C. R., McPherson,D. J., Lubker,R. A.	3/23/1954		Interim technical rept. no. 1, 1 Sep-31 Dec 53,	12	WAL-401/203-2 (WAL4012032)	401/203-2 (4012032)	DA-11-022-ORD-1428 (DA11022ORD1428)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Surface Hardening Of Titanium With Metalloid Elements.	ADA952321	ARMOUR RESEARCH FOUNDATION CHICAGO IL		11/30/1951		Interim technical rept. no. 1, 1 Jun-30 Nov 51.	26	WA-401/84-8 (WA401848)	401/84-8 (401848)	DA-11-022-ORD-289 (DA11022ORD289)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

Title	Accession Number	Corporate Author/Performing Org	Author/Performing Individual	Report/Summary Date	Abstract/Objective	Descriptive Note	Pagination	Report Number	Monitor Series	Contract Number	Distribution Code	Distribution Statement	Report Classification
<b>The Direct Determination Of Oxygen And Nitrogen In Titanium And Titanium Alloys Using Bromine Trifluoride.</b>	ADA952335	ARMOUR RESEARCH FOUNDATION CHICAGO IL	O'Neill,Hugh J.	1/23/1957		Final rept. 28 Jun-28 Dec 56,	25	WAL-401/232-1 (WAL4012321)	401/232-1 (4012321)	DA-11-022-505-ORD-2189 (DA11022505ORD2189)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Development Of Titanium-base Alloys Of High Strength And Toughness.</b>	ADA952336	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Lillie,C. R., McPherson,D. J.	8/2/1955		Interim technical rept. no. 4, 1 Sep-31 Dec 54,	21	WAL-401/203-5 (WAL4012035)	401/203-5 (4012035)	DA-11-022-ORD-1428 (DA11022ORD1428)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Development Of Titanium-base Alloys Of High Strength And Toughness.</b>	ADA952342	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Lillie,C. R., McPherson,D. J.	3/4/1955		Interim technical rept. no. 3, 1 May-31 Aug 54,	24	WAL-401/203-4 (WAL4012034)	401/203-4 (4012034)	DA-11-022-ORD-1428 (DA11022ORD1428)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Development Of Titanium-base Alloys Of High Strength And Toughness.</b>	ADA952345	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Lillie,C. R., Levinson,D. W.	11/11/1955		Interim technical rept. no. 5, 1 Jan-30 Apr 55,	22	WAL-401/203-6 (WAL4012036)	401/203-6 (4012036)	DA-11-022-ORD-1428 (DA11022ORD1428)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Surface Hardening Of Titanium With Metalloid Elements.</b>	ADA952379	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hanzel,R. W., Pulsifer,Verne	11/30/1952		Interim technical rept. no. 3, 1 Jun-30 Nov 52,	46	WAL-401/84-20 (WAL4018420)	401/84-20 (4018420)	DA-11-022-ORD-289 (DA11022ORD289)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Development Of Transformation Data For Special Titanium Alloys.</b>	ADA952381	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Graft,W. H., Rostoker,W.	4/22/1954		Interim technical rept. no. 2, 1 Nov 53-28 Feb 54,	34	WAL-401/200-1 (WAL4012001)	401/200-1 (4012001)	DA-11-022-ORD-1292 (DA11022ORD1292)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Development Of Titanium-base Alloys Of High Strength And Toughness.</b>	ADA952383	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Lillie,C. R., Levinson,David W.	10/3/1956		Final rept. 1 Sep 53-31 Aug 55,	89	WAL-401/203-7 (WAL4012037)	401/203-7 (4012037)	DA-11-022-ORD-1428 (DA11022ORD1428)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Development Of Transformation Data For Special Titanium Alloys.</b>	ADA952384	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Rostoker,W., McPherson,D. J.	1/12/1954		Interim technical rept. no. 1, 1 Jul-30 Oct 53,	25	WAL-401/200 (WAL401200)	401/200 (401200)	DA-11-022-ORD-1292 (DA11022ORD1292)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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Quantitative Spectrographic Analysis For Oxygen In Titanium Metal.	ADA952391	ARMOUR RESEARCH FOUNDATION CHICAGO IL		7/25/1952		Monthly progress rept. no. 12 (Final).	35	WAL-401/87-11 (WAL4018711)	401/87-11 (4018711)	DA-11-022-ORD-315 (DA11022ORD315)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Surface Hardening Of Titanium With Metalloid Elements.	ADA952395	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Siede,A., Pulsifer,Verne	5/31/1954		Interim technical rept. 1 Dec 53-31 May 54,	31	WAL-401/84-36 (WAL4018436)	401/84-36 (4018436)	DA-11-022-ORD-1319 (DA11022ORD1319)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Surface Hardening Of Titanium With Metalloid Elements.	ADA952401	ARMOUR RESEARCH FOUNDATION CHICAGO IL		5/31/1953		Final rept. 1 Jun 51-31 May 53.	152	WA-401/84-25 (WA4018425)	401/84-25 (4018425)	DA-11-022-ORD-289 (DA11022ORD289)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Surface Hardening Of Titanium With Metalloid Elements.	ADA952402	ARMOUR RESEARCH FOUNDATION CHICAGO IL		5/31/1952		Interim technical rept. no. 2, 1 Dec 51-31 May 52.	44	WAL-401/84-14 (WAL4018414)	401/84-14 (4018414)	DA-11-022-ORD-289 (DA11022ORD289)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development Of Transformation Data For Special Titanium Alloys.	ADA952409	ARMOUR RESEARCH FOUNDATION CHICAGO IL		8/6/1954		Interim technical rept. no. 4, 1 Mar-30 Jun 54.	26	WA-401/200-3 (WA4012003)	401/200-3 (4012003)	DA-11-022-ORD-1292 (DA11022ORD1292)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development Of Transformation Data For Special Titanium Alloys.	ADA952410	ARMOUR RESEARCH FOUNDATION CHICAGO IL		7/7/1954		Interim technical rept. no. 3, 1 Mar-30 Jun 54.	27	WA-401/200-2 (WA4012002)	401/200-2 (4012002)	DA-11-022-ORD-1292 (DA11022ORD1292)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development Of Titanium-base Alloys Of High Strength And Toughness.	ADA952836	ARMOUR RESEARCH FOUNDATION CHICAGO IL		9/22/1954		Interim technical rept. no. 2, 1 Jan-30 Apr 54.	27	WAL-401/203-3 (WAL4012033)	401/203-3 (4012033)	DA-11-022-ORD-1428 (DA11022ORD1428)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
Development Of Transformation Data For Special Titanium Alloys.	ADA952872	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Goldenstein,A. W., Rostoker,W.	5/6/1955		Interim technical rept. no. 5, 1 Dec 54-30 Apr 55,	30	WAL-401/200-4 (WAL4012004)	401/200-4 (4012004)	DA-11-022-ORD-1292 (DA11022ORD1292)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified

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<b>The Mechanism Of Strengthening In Metals Containing An Oxide Dispersion.</b>	ADA953209	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Hodson,R. L., Read,R. H., Metcalf,A. G.	7/27/1959		Final rept. 1 Jul 58-1 Jul 59,	45	ARF-2149-4 (ARF21494), WA-610/48 (WA61048)	610/48 (61048)	DA-11-022-ORD-2770 (DA11022ORD2770)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Metallurgical Investigation Of The Gun Tube And Tube Jacket From A Soviet 122 Mm Howitzer Model 1938 W/carriage, Fmar 968 (soviet).</b>	ADA954204	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Steven,G.	1/1/1955	The object of this U/A report was to conduct a comprehensive metallurgical examination of the gun tube and the tube jacket, and to compare the findings with domestic manufacturing practices of similar U.S. artillery components. A further objective of this investigation was to check the uniformity of the gun tube throughout its length, particularly with reference to microstructure, mechanical strength, and low temperature toughness of the steel.	Technical rept.,	33	WAL-700/22-5 (WAL700225)	700/22-5 (700225)	DA-11-022-ord-1438 (DA11022ord1438)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Investigation Of Foreign Ordnance Materiel.</b>	ADA954378	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Steven,G.	4/1/1955	A complete metallurgical study was made on captured artillery ammunition and on components of a Soviet 122mm Howitzer gun. These items were submitted to Armour Research Foundation by Watertown Arsenal and Picatinny Arsenal. Whenever indicated, the materials investigation was supplemented by a functional analysis of the gun mechanism. This analysis was carried out by the Mechanisms and Dynamics Department of Armour Research Foundation. The melting practice, fabrication and finishing methods of individual parts could be deduced from the chemical analysis macro- and microexaminations as well as metallurgical and mechanical strength tests. These findings were compared critically with current domestic manufacturing practices of weapons and ammunition. It was pointed out where foreign manufacturing methods were inferior to equivalent U. S. processes.	Final rept.,	7			DA-11-022-ORD-1438 (DA11022ORD1438)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 1. Zone Refining Of Cemented Tungsten-base Alloys</b>	ADA954807	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Parikh, N. W.	10/27/1961	This program concerns the development of a process for fabrication of tungsten sheet using tungsten-nickel-iron alloys as a starting material. Initial attempts in scaling up the process were successful. Sintering, warm rolling and zone refining tungsten-nickel alloys presented no difficulties. Eight inch wide hot rolled tungsten sheets were made by this process.	Quarterly rept. 1 Jul-30 Sep 1961	22	WAL-372/32-1-T1 (WAL372321T1)	372/32-1-T1 (372321T1), WAL (WAL)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE	Approved for public release; distribution is unlimited.	U - Unclassified

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<b>Development And Application Of A Theory For Plastic Deformation Of Cemented Alloys. Task 3. Copper-cooled Tungsten Fiber Rocket Nozzle Materials.</b>	ADA954845	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Koppenaar,T. J.	10/27/1961	Copper and copper-nickel alloys were used as matrix material for the purpose of tungsten-tungsten bonding of fibers in tungsten felts. Initial experiments with different diameter tungsten fibers indicate that a certain nickel-to-copper ratio is optimum for maximum strength of the composite. (Author)	Quarterly rept. 1 Jul-30 Sep 61,	21	WA-TR-372/32-1-T3 (WATR372321T3)	TR-372/32-1-T3 (TR372321T3)	DA-11-022-505-ORD-3092 (DA11022505ORD3092)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Air Force Structures Program 3.3 Of Operation Jangle. Volume 1.</b>	ADA995338	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Fey,E. H., Miller,D. E., Sevin,E., Snarr,W. B., Stewart,C. E.	7/27/1955	In previous weapon effects tests, nuclear weapons were detonated in the air and under water. Operation Jangle, intended to determine the effectiveness of weapons detonated on the surface and underground, represents a logical extension of these tests. The United States Air Force was chiefly interested in the strategic effectiveness of underground and surface explosions. The strategic effectiveness of an airborne weapon depends on many factors, one of the most important of which is its capacity for destroying military, industrial, and commercial structures. This program sought to investigate and determine the loading upon and response of selected structures to an underground atomic explosion..., and ...to the extent possible, formulate criteria and methods for determining the loading upon and response of selected structures or elements thereof.	Final rept.,	451	AEC-WT-405-VOL-1 (AECWT405VOL1)	WT-405-VOL-1 (WT405VOL1)	AF 33(038)-20054 (AF3303820054)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Air Force Structures Program 3.3 Of Operation Jangle. Volume 2.</b>	ADA995339	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Fey,E. H., Sevin,E., Nelson,H. R., Stewart,Charles E., Thornbery,J. M.	7/27/1955	This volume consists of three appendices: Analysis of Project 3.10 Structures; Analysis of Masonry Structures; and Analysis of the Response of Reinforced Square Cells.	Final rept.,	451	AEC-WT-405-VOL-2 (AECWT405VOL2)	WT-405-VOL-2 (WT405VOL2)	AF 33(038)-20054 (AF3303820054)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Operation Wigwam. Project 4.4. Close-in Time Of Arrival Of Underwater Shock Wave,</b>	ADB951593	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Porzel,F. B.	5/1/1955			29	AEC-ITR-1082 (AECITR1082)	ITR-1082 (ITR1082)		A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified



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<b>Operation Plumbbob. Nevada Test Site. May-october 1957, Project 30.5a. Dome-structure Response Instrumentation.</b>	ADB951595	ARMOUR RESEARCH FOUNDATION CHICAGO IL	Brittain,G. H., Scharres,E. H.	7/1/1957		Preliminary rept.,	32	AEC-ITR-1525 (AECITR1525)	ITR-1525 (ITR1525)		A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Air Gun Test Facility,</b>	ADP001811	IIT RESEARCH INST CHICAGO IL	Napadensky,H., Swider,E., Waterman,T., Pape,R.	1/1/1980	This paper describes a facility that is potentially useful in providing data for models to predict the effects of nuclear explosions on cities. IIT Research Institute has a large air gun facility capable of launching heavy items of a wide variety of geometries to velocities ranging from about 80 fps to 1100 fps. The facility and its capabilities are described, and city model problem areas capable of investigation using the air gun are presented. (Author)		6				A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified
<b>Host Resistance Models Available For Immunotoxicologic Studies,</b>	ADP001965	IIT RESEARCH INST CHICAGO IL	Fenters,James D., Aranyi,C., Barbera,P., Bradof,J., Fugmann,R.	8/1/1983	For about 25 years various investigators at IIT Research Institute (IITRI) have been developing animal model systems to measure the holistic response to drugs, chemicals, and air pollutants. In 1958, the first report on the effects of ozone (O3) on bacterial pneumonia was published by Miller and Ehrlich. That research, supported by the United States Air Force, was the basis for our subsequent programs in which several infectious disease models were used to evaluate the effects of a variety of toxicants. Table 1 shows thirteen infectious disease models and one tumor challenge model we have used in mice, hamsters, guinea pigs, or squirrel monkeys. With the exception of the diethylstilbestrol (DES), all toxicants were administered by the inhalation route. Other investigators are working with a variety of tumor and infectious disease models to evaluate toxicants administered by various routes and Dean et al. (1982b) have summarized this research. As a consequence there is a wide selection of host resistance models available for use.		19			NIEHS-1-ES15000 (NIEHS1ES15000), EPA-R-8067300 (EPAR8067300)	A - 01 - APPROVED FOR PUBLIC RELEASE		U - Unclassified