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Lawrence Berkeley National Laboratory

Publication Date

1955-06-15

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CALIFORNIA

*Radiation
Laboratory*

BERKELEY, CALIFORNIA

UCRL-3050
Internal Distribution

UNCLASSIFIED

UNIVERSITY OF CALIFORNIA

Radiation Laboratory
Berkeley, California

Contract No. W-7405-eng-48

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Printed for the U. S. Atomic Energy Commission

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LIST OF CODES FOR REPORT NUMBERS

ACCO -American Cyanimid Company
AEP -Monsanto Chemical Company
ALCO -American Locomotive Company
AMF -American Machine & Foundry Co.
ANL -Argonne National Laboratory
ANP -Aircraft Nuclear Propulsion Project
APEX -General Electric Company, ANP Project
BAW -Babcock & Wilcox
BDX -Bendix Aviation Corp., Detroit
BMI -Battelle Memorial Institute
BNL -Brookhaven National Lab.
BRB -Bridgeport Brass Company
BSC -Bethlehem Steel Company
CENP -Combustion Engineering, Inc.
COO -Chicago Operations Office
CU -Columbia University
DCDE -Atomic Power Development Associates
DLWK -Duquense Light Co-Walter Kidde
DOW -Dow Chemical Company
DP -E.I. duPont de Nemour & Co.
FWE -Foreign Weapons Effects
GAT -Goodyear Atomic Corporation
GEAP -General Electric Company
GEL -General Electric Co., General Engineering Laboratory
HEC -Hooker Electrochemical Co.
HO -Hanford Operations Office
HW -Hanford Works, Richland
IDO -Idaho Operations Office
ISC -Iowa State College
K -Carbide and Carbon Chemicals Co. (K-25 Plant)
KAPL -Knolls Atomic Power Laboratory
KLX -The Vitro Corporation of America
KLXS -Vitro Corporation of America (Study Group)
KY -Carbide and Carbon Chemicals Co. (C-31 Plant)
LA&LAMS -Los Alamos Scientific Lab.
MCW -Mallinckrodt Chemical Works
MIT -Massachusetts Inst. of Tech.
MLM -Mound Laboratory
NAA-SR -North American Aviation, Inc.
NBL -New Brunswick Laboratory
NBS -National Bureau of Standards
NEA -Foster Wheeler-Pioneer Service
NLCO -National Lead Company of Ohio
NMI -Nuclear Metals Inc.
NNSD -Newport News Shipbuilding and Dry Dock Co.
NPG -Commonwealth Edison Co. (Nuclear Power Group)
NYO -New York Operations Office
ORINS -Oak Ridge Institute of Nuclear Studies

ORNL	-Carbide & Carbon Chemicals Co. (ORNL)
ORO	-Oak Ridge Operations Office
PWAC	-Pratt & Whitney Aircraft Division of the United Aircraft Corp.
RFP	-Rocky Flats Plant
RME	-Grand Junction Operations Office
RMO	-Division of Raw Materials
SAN	-San Francisco Operations Office
SC	-Sandia Corporation
SEP	-Sylvania Electric Products, Inc.
SFO	-Santa Fe Operations Office
SRO	-Savannah River Operations Office
SO	-Schenectady Operations Office
TEI(M)	-U. S. Geological Survey Trace Elements Reports
TID	-Technical Information Service
TVA	-Tennessee Valley Authority
UCLA	-University of California Medical Research Laboratory
UCRL	-University of California Radiation Laboratory
UR	-University of Rochester
UWFL	-University of Washington Applied Fisheries Laboratory
WAPD	-Bettis Plant
WASH	-AEC, Washington
WEC	-Westinghouse Electric Company Industrial Atomic Power Group
WIN	-National Lead Co., Inc. Winchester
WT	-Weapon Test Reports
Y	-Carbide and Carbon Chemicals Company (Y-12 Plant)

Many prefixes used for research and development reports cover a number of installations. NP("Non-Project") numbers are assigned by the Technical Information Service at Oak Ridge to those reports which it receives from sources not under contract to the Atomic Energy Commission. The UCRL Information Division gives "Misc" numbers to any others received here that do not bear an identifying number. Many reports are grouped together under numbers corresponding to an AEC division or operations office. Some of these are as follows:

CO, COO	-Chicago Operations Office
IDO	-Idaho Operations Office
NYO, NYOO	-New York Operations Office
ORO	-Oak Ridge Operations Office
RMO	-Raw Materials Division
WASH	-Atomic Energy Commission, Washington

In our semimonthly "List of Reports Received" the originating installation will be placed in the author column whenever the report code number does not indicate a specific laboratory, or is obsolete or not given in this list.

Two series of translations are currently received, one sponsored by the AEC (AEC-tr), the other by the National Science Foundation (NSF-tr).

LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED IN THE UCRL
INFORMATION DIVISION DURING THE PERIOD OF JUNE 1-15, 1955

Radiation Laboratory, Department of Physics
University of California, Berkeley, California

June 15, 1955

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*AD-33893	Fine Grinding Project. Bi-Monthly Progress Report for February 15 to April 15, 1954. Report No. 1299	J.E.Barkley General Mills, Inc.	4-26-54
*AECU-3014	Nutrition of the Strawberry (<u>FRAGARIA SPP</u>) With Special Reference to Foliar Absorption of Radiophosphorus and Calcium (Thesis)	R.A.Norton Michigan State Coll. of Agriculture and Science	1954
*AERE-H/R-405	Haemoglobin Estimation: A Method of Haemoglobin Estimation Using Micro-Glass Cells in Hilger Spekker Photo-Electric Absorptiometer	C.Sanders	9-49
A.E.R.E. HP/M 83	A Radon-in-Air Monitor for Use in Mines	L.W.D.Pittendrigh	1954
*AERE-HP/R-627	The Analysis of Biological Samples for Polonium	J.Rundo	12-50
*AERE-Med/R-562	A Method of Preparing a Model Showing Surface Detail of the Terminal Phalanx of a Finger	W.Graham-Smith M.McCarthy R.H.Brown. et al	11-50
*AG-11-1	Health Services and Special Weapons Defense	Federal Civil Defense Administration Wash. D.C.	12-50
*AMRL-69	Thyroid and Adrenal Response to Varying Dose Levels of Seinephrine	A.L.Botkin J.T.Tew Army Medical Research Lab. Fort Knox, Ky.	12-3-51
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*AMRL-71	Effect of Total Body X-Irradiation on the Plasmin Inhibitor Titer in the Blood of Rats	W.Kocholaty W.W.Ellis H.F.Jensen Army Medical Research Lab., Fort Knox, Ky.	12-15-51
*AMRL-77	Tetrazolium Salts as Protectors Against Lethal Effects of X-Rays	N.Puckett S.Bellack A.T.Krebs Same	3-5-52
*AMRL-83	The Role of the Liver in Thyroid Hormone, Metabolism as Studied by Radio-Iodine in Intrasplenic Thyroid Auto-Transplants	M.W.Hamolsky O.R.Czerwonka A.L.Botkin, et al Same	6-3-52
*AMRL-104	Radiation Effects on Certain Constituents of the Liver and Kidney in the Rat	J.R.Denson E.J.Gray J.L.Gray, et al Same	11-20-52
AMRL-182	Concentration of Non-Esterified Higher Fatty Acids in Serum of Carbon Tetrachloride-Treated and Normal Rats, and in Rabbit and Bovine Serum	G.L.Selden U.F.Westphal Same	2-23-55
ANL-5426	Quarterly Report of Biological and Medical Research Division	A.M.Brues	4-55
*CRLIR-158	The Development of a Radioactive Source for a Training Aid. Interim Report	J.C.Kerrigan Chemical and Radiological Labs., Army Chem.Center, Md.	8-14-52
LA-1894	A Portable Apparatus for the Determination of Tritium in Body Fluids and Aqueous Solutions	B.Eutsler M.Robbins R.Hiebert	6-2-55
MISC 1955-58	Isotopes; Announcements of the Isotopes Division Vol.5-No. 2	Oak Ridge Operations Office, AEC	4-55
*MLCR-51	A Study of the Mechanism of Absorption of Particulates in the Respiratory Tree. Section 1. Quarterly Report No. 4, 1954	A.E.Reif M.P.Holcomb	1-55
*Microcards	Section 2 Summary of Reports Issued Since Dec. 1. 1953	H.S.Baker, et al	

NBS-4091	Calibration of Fast Neutron Survey Meters Model FN-1 Manufactured by Nucleonic Company of America	R.S.Caswell F.H.Day	5-5-55
*NP-5576	Development Report for Slow Neutron Survey Equipment for Period November 30, 1952 to December 31, 1952 (Phase 1)	R.Bersin Tracerlab, Inc., Boston	4-1-53
*NP-5577	Development Report for Slow Neutron Survey Equipment for Period December 31, 1952 to January 31, 1953 (Phase 1)	R.Bersin Same	4-1-53
*NP-5584	The Biological and Medical Aspects of Ionizing Radiation Effect of High-Intensity X-Radiation on Velocity of Nerve Conduction	H.B.Gerstner J.S.Orth E.O.Richey School of Aviation Medicine, Randolph AFB, Texas	10-54
*NP-5586	The Biological and Medical Aspects of Ionizing Radiation Effect of Whole Body X-Irradiation on a Natural Inhibitor of Carboxypeptidase	R.N.Feinstein J.C.Ballin Chicago Univ. AF Radiation Lab.	5-54
*NP-5587	Biological and Medical Aspects of Ionizing Radiation Acetylation of Sulfanilamide by X-Irradiated Animals	K.P.DuBois G.J.Cotter D.F.Peterson Same	12-54
NYO-4919	Effect of Short Interval Fractionation on the Lethal Properties of Total Body Radiation in Rats	J.P.Storaasli S.Rosenberg J.S.Krohmer, et al Western Reserve Univ.	4-27-55
NYO-4920	The Reversal by High Oxygen Tension of the Protective Action of Cysteine in Irradiated Rats	P.R.Salerno H.L.Friedell Same	4-27-55
ONRL-27-55	Some Biological Research Laboratories in Belgium	J.O.Hutchens Office of Naval Research	4-6-55
*RDB(W)/TN-118	A Portable Alpha Monitor	G.Bottomley Gt.Brit.Windscale Works, Sellafield, Cumb., Eng.	1-54
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UCLA-335

The Use of an Automobile Radio as a Power Supply for a Radiation Detector

F.C.Strebe

5-20-55

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*AD-22854

Investigation of a New Method for the Determination of the Coefficients of Surface Diffusion of Metals. Quarterly Progress Report No. 3

A.J.Kolk

11-30-53

S.J.Strindberg
Horizons, Inc.

*AD-22921

Isotopic Determination of Impurities in Metals. Final Report for April 1, 1951 to September 1, 1953

A.D.Kirshenbaum 9-1-53

Research Inst., Temple Univ.

*AD-28372

Organo-Metallic and Organo-Metalloidal High Temperature Lubricants and Related Materials. Quarterly Progress Report for December 15, 1953 to March 14, 1954

Iowa State Coll.

*AD-35356

Research and Development on High-Frequency Fields for Chemical Analysis. Large Volume Cell Adapted for Simultaneous High-Frequency, Conventional Conductance, and Potentiometric Titrations. Technical Report No. 1 Covering the Period September 16, 1953 to March 15, 1954

P.R.Wilkinson

J.A.Gibson, Jr.

J.L.Hall

West Virginia Univ.

*AD-44577

Investigation of Factors Determining Aggregation of Fine-Particle Matter. Quarterly Report No. 3

C.Orr, Jr.,

3-14-54

M.T.Gordon

J.B.Garrett

Georgia Inst. of

Tech. State Eng.

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*AD-46196

Development of an Instrument for the Instantaneous Analysis of Gas Mixtures. Quarterly Progress Report No. 11 for the period July 1, 1954 to September 30, 1954

Arkansas Univ.

10-25-54

Engineering Experiment
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A.E.R.E. C/M 221

The Quantitative Separation of Aluminum and Zirconium By Anion Exchange

F.W.Cornish

1954

A.Thomas

A.E.R.E C/R 1491

Comparison of Ethylenediamine Tetra-Acetic Acid & Citric Acid for the Separation of Rare Earths by Ion Exchange Elution

F.W.Cornish

1954

G.Phillips

A.Thomas

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A.E.R.E. C/R 1587	The Determination of Zirconium in the Presence of Niobium or Tantalum	G.W.C. Milner J.W. Edwards	1955
A.E.R.E. C/R 1615	The Polonium Halides Part I - Chlorides	K.W. Bagnall R.W.M. D'Eye J.H. Freeman	1955
*AERE-G/R-469	Measurements of the Gaseous Thermal Diffusion Constants for Oxygen ($O^{18}O^{16}$ - $O^{16}O^{16}$) and Methane (CH_4^{13} - CH_4^{12})	W.H. Denton	3-50
AERE-Inf/Bib-52	Gas Analysis; Bibliography of Reports and Published Literature		11-49
A.E.R.E. M/R 1621	Gel Formation by Main Chain Fracture of Long Chain Polymers	A. Charlesby	1955
AMRL-171	Binding of Hydrocortisone - $4-C^{14}$ and Progesterone- $4-C^{14}$ to Serum Albumin, Demonstrated by Electrophoresis and Ultracentrifugation	U.F. Westphal H.E. Firschein E.M. Pearce	11-16-54
*BI-78	Carbon for Fluorine Anodes; Meeting with Prof. Riley Held at King's College, Newcastle-On-Tyne on 8-20-45	A.J. Rudge Imperial Chem. Industries, Ltd. General Chemical Div. Widnes, Lancs, England	9-15-45
*BIOS-FR-261	Hydrofluoric Acid; Vereinigte Flusspathgruben G.m.b.H., Stulln	W. Archer W.J.V. Ward O.S. Whitson British Intelligence Objectives Sub-Committee	1945
*BR-42	The Motion in a Self-Fractionating Centrifuge	P.A.M. Dirac Great Britain	
*BR-68	Specific Heat of C_7F_{16}	H.S. Arms Great Britain	12-3-42
*BR-105	The Equilibrium Time of a Separation Plant	Professor Hartree Great Britain	3-18-42
*BR-186 *Microcards	The Vapour Pressure of UF_6 From 12° to $50^\circ C$ (Birmingham. Univ., England)	C.B. Amphlett W.N. Haworth	6-30-42

*BR-215	Determination of Molecular Weights by the Gas Density Balance	G.A.R.Hartley R.Parmella Imperial Chemical Industries	3-25-43
*CCC-1024-TR-96	Ultraviolet and Infrared Absorption Spectra of Organoboron Compounds	P.L.Pickard C.L.Dulaney G.W.Polly Oklahoma Univ., Norman	2-18-55
*JENER-34	A New Method for Separation of Radioactive Iodine-131	K.Taugbol K.Samsahl Joint Estab. for Nuclear Energy Research, Kjeller, Norway	1954
*LADC-706	Recent Experiments on Liquid Helium 3	S.G.Sydoriak E.F.Hammel Los Alamos Scientific Lab., N.Mex.	1949
*LADC-884	The Use of Beta-Ray Densitometry in Paper Chromatography	R.H.Muller E.N.Wise	11-7-50
*LADC-989	Micro Syntheses with Tracer Elements XXI The Synthesis of Thiamin Labeled with C ¹⁴	D.L.Williams A.R.Ronzio	
*MCC-1023-TR-67	Surface Phenomena Related to the Boron Hydrides. (Thesis)	H.S.Veloric Delaware Univ., Newark	6-55
MIT-LNS-PR-2/28/55	Progress Report	Mass. Inst. of Tech.	2-28-55
MIT-SSMT-TR-No.7	Electric Structure of Molecules. Some Recent Developments Technical Report No. 7	R.McWeeny	5-1-55
NM 000 018.06.35	On the Theory of the Donnan Membrane Equilibrium	T.L.Hill Naval Medical Research Lab., Bethesda, Md.	6-29-54

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NRL-4528	The Application of X-Ray Fluorescence to Trace Analysis	M.B.Cavanagh	4-15-55
NRL-4542	An Examination of the 1948 Liquid Helium Vapor Pressure-Temperature Scale	J.R.Clement J.K.Logan J.Gaffney	5-2-55
*NYO-3934-II	Investigations of Isotopic Abundances of Strontium, Calcium, and Argon in Certain Minerals, and Related Topics. Annual Progress Report for 1953-4. Part II. Variations in Isotopic Abundances of Strontium, Calcium, and Argon and Related Topics. Annual Research Progress Report	L.F.Herzog W.H.Pinson, Jr. M.M.Backus, et al Mass.Inst. of Tech.	4-30-54
NYO-6325	The Heat Capacities of Potassium Between 12 and 320°K and the Entropy of Potassium at 25°C Progress Report for January 1, 1955 to April 1, 1955	W.E.Wallace R.S.Craig C.A.Krier Pittsburgh, Univ.	4-6-55
NYO-6618	Electrochemical Studies of Non-Aqueous Melts, Quarterly Progress Report for the Period Ending March 15, 1955	R.F.Mehl G.Derge Carnegie Inst. of Tech., Pittsburgh, Metals Research Lab.	5-55
*PA-TR-1988	Development of Spectrographic Methods of Analysis. Universal Spectrographic method for the Analysis of Aluminum Alloys	H.M.Hyman S.Weisberger Pictinny Arsenal Dover, N.J.	1-15-54
PDB-150	Microdetermination of Sulphur for the Estimation of Sulphate or Sulphite	G.M.Allison Chalk River Project Canada	12-28-54

ENGINEERING

*AD-1292	On the Recovery Factor Hypersonic Flow with a Self-Induced Pressure Gradient. Report No. 217	R.F.Probstein L.Lees Aeronautical Eng. Lab., Princeton, Univ.	1-19-53
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*AD-47751	Investigation of an Electro-Magnetic Method for Measuring Fluid Flow Rates. Final Report	J.H.Fisher Rocket Lab., Purdue Univ.	6-52
A.E.R.E. ED/R 1566	Theory of the Ideal A.C. Conduction Pump	W.Murgatroyd	1954
*AERE-G/R-565	A Refrigerator-Cooled Two-Inch Diffusion Pump	R.S.Barton	9-50
*AERE-I/R-386	Survey of Pile Made Isotopes for Industrial Radiography	W.S.Eastwood	7-49
A.E.R.E. Inf/Bib.93 (2nd Edition)	Electromagnetic Pumps and Flowmeters	M.Greenhill	1955
*ATI-34233	Electrical Thermal Air Flow Meter	Air Material Command, Wright- Patterson AFB, Ohio	8-31-48
*EES-9C(2) 966861	Basic Information on the Bearing Properties of Various Materials in Liquid Metals. Report No. 2	M.R.Gross Naval Eng. Experiment Station, Annapolis	6-11-51
*EES-9C(3) 966861	Basic Information on the Bearing Properties of Various Materials in Liquid Metals. Report No. 3	M.R.Gross W.J.Greenert Same	2-28-52
*NACA-TN-3392	Two Miniature Temperature Recorders for Flight Use	J.V.Foster Ames Aeronautical Lab., Moffett Field, Calif.	2-2-55
*OSR-TN-55-49	Laboratory Vacuum Furnace	A.S.Yue A.G.Guy Purdue Univ.	1-29-55
*TAM-79	Investigation of the Behavior of Overstrained Thick-Walled Cylinders. Technical Report No. 2 The Overstraining of Thick-Walled Mild Steel Cylinders	M.C.Steele L.C.Eichberger Illinois Univ.	2-55
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GEOSCIENCES

*ALI-15 Report on the Phosphate Industry to U.S. Atomic Energy Commission Little (Arthur D.) Inc. 6-30-49

METALLURGY AND CERAMICS

*AD-6685 Investigation and Evaluation of New High Temperature Materials Quarterly Progress Report No. 3 Covering the Period November 1, 1952 to February 1, 1953 American Electro 1953 Metal Corp.

*AD-11048 The Development of Inhibitors to be used in Sand Casting of Aluminum-Base High-Magnesium Alloys: A Review of the Literature. Interim Report No. 1 R.R. Studor, 6-14-52
P.D. Frost
J.H. Jackson
Battelle

*AD-13819 Research on Cladding of Base Metals. Quarterly Progress Report No. 1 for December 15, 1952 to April 15, 1953 P.F. Mataich 5-18-53
F.C. Wagner
M.E. Sibert
Horizons, Inc.

*AD-16551 Titanium Formability and Welding Characteristics. Monthly Progress Report No. 8 B. Holland 6-10-53
D.S. Adams
Ryan Aeronautical Co.

*AD-16978 High Value Insulators. Quarterly Progress Report No. 8 Covering the Period April 1, 1953 to June 30, 1953 J. Steigman 7-27-53
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*AD-18056 Investigation of a New Method for the Determination of the Coefficients of Surface Diffusion of Metals, Quarterly Progress Report No. 2 S.J. Strindberg 9-22-53
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*AD-21020 Effect of Elevated Temperature on the Fatigue Strength of Sintered Aluminum Powder. Quarterly Progress Report No. 3 for July 15-October 15, 1953 W.S. Hyler 10-15-53
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Battelle

*AD-25802 Investigation of the Metallurgical Characteristics of 36% Aluminum Titanium-Base Alloy. Quarterly Report No. 5 for September 1, 1953 - November 30, 1953 J.B. McAndrew 1-18-54
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*AD-26534	Study of Effect of Alloying Elements on the Weldability of Titanium Sheet. Quarterly Progress Report No. 4 Covering the Period July 15, 1953 to October 31, 1953	H.M.Meyer W.Rostoker Armour Research Foundation	12-15-53
*AD-28234	High Value Insulators. Final Report Covering the Period July 1, 1951 to September 30, 1953	J.Steigman R.Brill L.Aron, et al Polytechnic Inst. of Brooklyn	10-31-53
*AD-30797	Investigation of the Intermetallic Compounds of Aluminum Progress Report No. 4 for February 15, 1954 to April 15, 1954	W.H.Herz American Electro Metal Corp.	4-15-54
*AD-33675	Causes of Cracking in High-Strength Weld Metals Progress Report for the Period December 12, 1953 to March 12, 1954	A.J.Jacobs R.P.Sopher P.J.Rieppel Battelle	3-12-54
*AD-35044	Principles of the Effect of Rare Earth Additions on the High Temperature Properties of Magnesium. Phase II. Quarterly Report No. 5 for the Period April 1, 1953 to June 31, 1953 Report No. 15657	Metallurgical Labs.,Dow Chemical Co.	
*AD-35044-A	A Fundamental Study of Natural and Synthetic Films on Magnesium and its Alloys. Phase III. Quarterly Report No. 5 for the Period April 1, 1953 to July 1, 1953 Report No. 15719	Same	
*AD-45710	An Investigation of the Mechanism by Which Boron Increases the Hardenability of Steel. Quarterly Report No. 10 for the Period July 1, 1954 to September 30, 1954	C.R.Simcoe R.E.Maringer R.S.Doig, et al Battelle	9-30-54
*AECU-3013	High Temperature Scaling Behavior of Zirconium. First Technical Progress Report Covering Period April 1, 1953 to March 1, 1955	D.J.Garibotti H.M.Green, et al Case Inst. of Tech.	3-15-55

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*AECU-3020	Mathematical Studies on Galvanic Corrosion. Part V. Calculation of the Average Value of the Corrosion Current Parameter	J.T.Waber J.Morrissey J.Ruth Los Alamos	1954
*AERE-M/R-581	The Crystal Structure of the Compound UMn_2 and A Discussion on Laves Phases in Uranium Alloys	P.J.Bowles T.S.Hutchison P.C.L.Pfeil, et al	10-50
A.E.R.E. M/R 1588	Plastic Laps for the Preparation of Specimens for Metallographic Examination	V.J.Haddrell E.C.Sykes B.W.Mott	1955
A.E.R.E. M/R 1603	Textures in Face Centred Cubic Metals and Alloys	R.E.Smallman K.H.Westmacott	1955
*AERE-M/TN-11	A Critical Review of the Alloying Behaviour of Zirconium	P.C.L.Pfeil	6-9-52
*AERE-X/R-332	Creep Tests on 99.8% Aluminum at 250° to 450°C.	British Non- Ferrous Metals Research Association	1-49
*AERE-X/R-367	Creep Tests on 99.8% Aluminum at 250°C - 450°C; Second Series	Same	5-49
*AF-TR-5930	Dynamic Creep and Rupture Properties of Temperature Resistant Materials Under Tensile Fatigue Stress	B.J.Lazan Syracuse Univ.	2-50
*AF-TR-5946	Titanium-Chromium Binary Alloys	M.G.Fontana Ohio State Univ.	5-50
*AF-TR-6049	Ceramic-Metal Bodies; Quarterly Report No. 4; April 1, 1949 - July 1, 1949, Report No. 17	Rutgers Univ.	7-49
*AF-TR-6059	Further Ball Milling Studies on Pure Oxides	L.R.McCreight Illinois Univ.	2-50
*AF-TR-6080	Refractory Materils for use in High-Temperature Areas of Aircraft (Summary Report)	N.R.Thielke E.C.Henry Penn. State Coll.	7-50
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*AF-TR-6188	Stress Rupture Tests on Sheet Alloys for High Temperature Applications	I. Perlmutter Air Material Command, Wright-Patterson AFB, Ohio	7-50
*AF-TR-6218(pt.1)	Refractories for Melting Titanium; Part 1	L.W. Eastwood C.M. Craighead Battelle	6-50
*AF-TR-6218(pt.2)	Research and Development on Titanium Alloys; Part 2	Battelle	6-50
*AF-TR-6595(pt.1)	Studies and Experimental Investigations for the Development of Phase Diagrams of the Titanium-Chromium and Titanium-Copper Alloy Systems	F.B. Cuff, Jr. A.S. Joukainen L.S. Richardson, et al Mass. Inst. of Tech.	11-51
*AF-TR-6595(pt.2)	Studies and Experimental Investigations for the Development of Phase Diagrams of the Titanium-Chromium and Titanium-Copper Alloy Systems: Part 2. The Titanium-Copper and the Titanium-Chromium Phase Diagrams	A.S. Joukainen F.B. Cuff Mass. Inst. of Tech.	12-51
*AF-TR-6596(pt.1)	Titanium-Nickel Phase Diagram	J.P. Nielsen H. Margolin Wright Air Development Center, Wright-Patterson AFB	10-51
*AF-TR-6597(pt.1)	The Titanium-Iron Phase Diagram	W.J. Fretague C.S. Barker E.A. Peretti Univ. of Notre Dame	11-51
*AF-TR-6601(pt.1)	An Investigation of the Alloys of Aluminum and Molybdenum	R.L. Wachtell American Electro Metal Corp.	1951
*AF-TR-6623	Summary Report Covering the Period July 1, 1950 to May 18, 1951 on Development of Titanium-Base Alloys	Battelle	6-18-51

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*AML-NAM-AE-411033 (pt.1)	Report on Investigation of the Corrosion Resistance of Titanium and Titanium Alloys	J.H.Hames 2-23-50 Naval Air Experimental Sta. Aeronautical Materials Lab.
*ATI-57112	Report on Preliminary Investigation of High Melting Materials for Ceramic Rocket Liners and Nozzles	A.B.Scholes 8-49 New York Univ.
*ATI-109383	Investigation of Refractories Suitable for Melting Titanium and its Alloys	L.E.Marchi 6-10-51 W.A.Scholes Ill. Inst. of Tech. Chicago. Armour Research Foundation
*BIOS-FR-263	Part I. Report on Nickel and Iron Powder Plants. (I.G. FARBEN INDUSTRIE-OPPAU WORKS, LUDWIGSHAFEN) Part II. Report on the Treatment of Nickel-Copper Ores and Residues (NORD DEUTSCHE AFFINERIE, HAMBURG.)	T.S.Charleson T.H.Davey L.B.Pfeil Brit. Inst., Sub-Comm.
*BM-RI-5117	The Fabrication of Arc-Melted Ingots of Titanium and Titanium-Manganese Alloys into Plate	R.W.Huber 10-54 V.C.Petersen R.C.Wiley Bureau of Mines
*COA-84	Investigation into the Machining of Titanium 150A in the Forged State	J.T.D.Holt 8-54 J.Purcell College of Aeronautics(Eng.)
*EES-040029C	The Elevated Temperature Properties of Hastelloy X	W.L.Williams 11-30-53 Naval Eng.Experiment Station
MISC 1955-66	Titanium Program, Project TB4-15 (Subtask 1) Seventeenth Quarterly January 1 to March 31, 1955	D.H.Baker, Jr. 5-17-55 U.S.Bureau of Mines
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*MR-582 *Microcards	Some Mechanical Properties of a New Beryllium-Copper Alloy	J.C.Kiszka L.M.Smith, Frankford Arsenal

*NACA-RM-E54L10	Measured Effective Thermal Conductivity of Uranium Oxide Powder in Various Gases and Gas Mixtures	J.S.Boegli R.G.Deissler Lewis Flight Propulsion Lab.	12-10-54
*NACA-TN-3282	Intergranular Corrosion of High-Purity Aluminum in Hydrochloric Acid. II. Grain-Boundary Segregation of Impurity Atoms	M.Metzger J.Intrater Columbia Univ.	10-23-53
*NACA-TN-3351	Plastic Deformation of Aluminum Single Crystals at Elevated Temperatures	R.D.Johnson A.P.Yound A.D.Schwope Battelle	12-29-53
*NOTS-TM-789	High-Heating-Rate Strength of 356-T6 Aluminum Alloy	W.J.Feuerstein W.K.Smith Naval Ordnance Test Station, Inyokern (China Lake) Calif.	2-5-53
*NP-5583	Effect of Oxygen on Mass Transport of Stainless Steel Components in Sodium	J.W.Mausteller E.F.Batutis Mine Safety Appliances Co.	3-16-55
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NYO-4630	Study of Metal-Ceramic Interactions at Elevated Temperatures Quarterly Progress Report for the Period Ending April 1, 1955	F.H.Norton W.D.Kingery Mass. Inst. of Tech.	4-1-55
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*AECU-3611	Field Evaluation of Industrial Xeroradiography	G.M.Taylor G.H.Tenney Los Alamos Scientific Lab.	1954
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*AERE-T/R-590	Extension of Feynmann's Method for Determining Neutron Energy Spectrum and Spacial Distribution to the Case of Anisotropic Scattering; Part I. Theory	B.Davison	11-50
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*AF-TR-6586	Linear Noise Smoothing and Predicting Filters	F.W.Bubb Wright Air Development Center, Wright-Patterson AFB, Ohio	5-51
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*BR-76	The Deflection of Thin Rectangular Diaphragms	A.M.Roberts Metropolitan-Vickers Electrical Co., Ltd., Manchester, England	12-42
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Monograph 2328	VHF Point-Contact Transistor Stability Problems	D.E.Thomas	11-54
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*AERE-R/L-2	Control and Instrumentation of An Air-Cooled Thermal Neutron Reactor. Lecture Notes.	R.V.Moore	2-11-52
*AERE-T/R-586	A Method of Calculating the Critical Dimensions of Spherically Symmetrical Reactors; Part I	H.M.Melvin	10-50
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CERN-55-2	The Scope and Activities of CERN 1950-1954	E.Amaldi Same	1-7-55
*NP-5588	Third Annual Report for 1953-54	Joint Establishment for Nuclear Energy Research, Kjeller, Norway	
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UCRL-2934	S-Acyl Thioctic Acid Derivatives in <u>Aerobacter Aerogenes</u> and <u>Scenedesmus</u>	B.Milhaud A.A.Benson R.C.Fuller V.Milhaud M.Calvin	3-30-55
UCRL-2960	Design of Critical Damping Networks for Relay Coils	R.C.Acker W.C.Struven	4-4-55
UCRL-2968	Installation of the Bevatron Power Supply	R.H.West(Thesis)	4-19-55
UCRL-2985	Liquid Hydrogen Bubble Chambers	H.C.Dittler T.F.Gerecke (M.S.Thesis)	5-10-55
UCRL-2988	Treating Concrete Surfaces with Paraffin	A.E.Salo	5-18-55
UCRL-2990	A Total Absorption Spectrometer for Gamma Rays	M.H.L.Jester (Thesis)	5-13-55
UCRL-2992	Free Energy Functions of the Solid and Liquid Elements	L.Brewer	5-55
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UCRL-2996	High-Energy Induced Fission Theory and Application	R.R.Hart (Thesis)	5-11-55

UCRL-2998	K-Meson Mass From A K-Hydrogen Scattering Event	W.W.Chupp G.Goldhaber S.Goldhaber W.R.Johnson J.E.Lannutti	5-16-55
UCRL-3001	The Point Emitter as a Positive-Ion Source	R.G.Herron (Thesis)	5-16-55
UCRL-3002	A New Eluant for the Separation of the Actinide Elements	G.R.Choppin B.G.Harvey S.G.Thompson	5-17-55
UCRL-3005 ABSTRACT	Identification of A θ^+ Meson	G.Goldhaber E.Helmy J.E.Lannutti	5-19-55
UCRL-3006 ABSTRACT	K-Mesons Mass from a K-Hydrogen Scattering Event	W.W.Chupp G.Goldhaber S.Goldhaber W.Johnson J.Lannutti	5-19-55
UCRL-3007 ABSTRACT	Study of K ⁻ Stars	W.W.Chupp G.Goldhaber S.Goldhaber F.H.Webb	5-55
UCRL-3008 ABSTRACT	Interactions in Flight of K ⁺ -Mesons	W.W.Chupp G.Goldhaber S.Goldhaber E.Helmy W.R.Johnson J.E.Lannutti	5-55
UCRL-3009 ABSTRACT	K-Particle Production at the Bevatron	W.W.Chupp S.Goldhaber W.R.Johnson F.Webb	5-55

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Positive Heavy Mesons Produced at the Bevatron

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