

On the Theory of the Thermal Conductivity of a Plasma, Part I, by H. Schirmer.

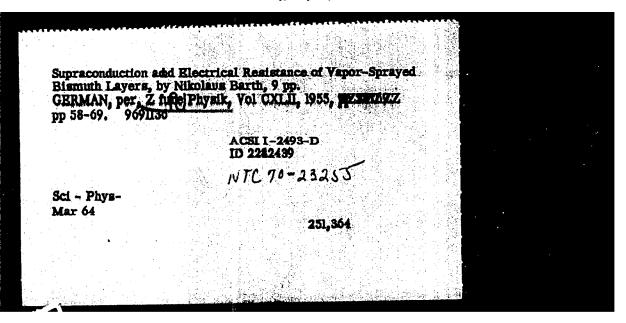
GERMAN, per, Z. fuer Physik, Vol CXLTI, No 1, 1955, pp 1-13.

ASELTB (B 4/1/992

Sci - Foy

Apr 62

192,732



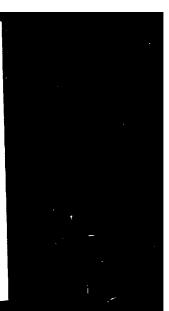
On the Theory of Hysterisis Losses in a Rotating Magnetic Field, by M. Kornetski, I. Incas, 12 pp.

CERMAN, per, Zeit fuer Physik., Vol CXLII, 1955, pp 70-82,

AEC-RAE-21-1008

Soi-Phys How 63

242,446



On the Theory of the Thermal Conductivity of a Plasma, Part II, H. REWEN Schirmer.

GERMAN, per, Z. fur Phys.k, Vol. XLII, No 2, 1955, pp 116-126.

ASLIB GB 4/T/993

Sci - Phys, Engr

182,733

Apr 62

Concerning the Crystallization of Evaporated Antimony Films, by Adolf Gotzberger, 24 pp.

GERMAN, per, Z Physik, Vol CXLII, 1955, pp 182-200.

ARC UCRL-Trans-504(L)

Sci - Phys 10 Nov 60 List 45

Sup 63-14-66

131,411

The Fundamental Relationship Between Distocation Density and Stress Functions, by E. Kroner, 12 pp.

GERMAN, er, 2. Physik, Vol CXLII, 1955, PP 463-475.

AT8-66J17G

Sci

Jul 59

ASUB GB 4 91, 338

Motchmann, Haraid.

MEASURING THE OSCILLATOR STRENGTH OF A
FEW NI-LINES IN A WATER AND AR-STABILIZED
LIGHT ARC (Measuring der Oszillatorenstärke einiger
NI-Linien im Wasser- und Luftstabilisierten
Lichhogen). [1962] 18p. (1 fig. omitted) 14 refs.
Order from SLA \$1.60 62-16090

Trans. of Zeitschrift für Physik (West Germany)
1955, v. 143 [no. 1] p. 77-92.

DESCRIPTORS: *Plasma physics, Plasma oscillations,
*Spectrographic analysis, Lighting equipment

The oscillator strength of 10 Ni-multiplets (located in
the wave length range between 5500 and 4000 Å) and of
their components are determined through absolute in
tensity measurements. In this connection the absolute
intensities of a hydrogen and an oxygen line are used
(Physics--Theoretical, TT, v. 8, no. 6) (over)

Megative Photoeffects in Seviconductors, by F.
Stockmann, 18 pp.
GERMAN, per, 2. Phys., Vol 143, 1955, pp 348-356.
P911386967
AEC UCRL-TRANS-10129

Sei-Physics
Dec 67

346,214

Measurement of the Critical Supersamuration in Vapors with the Diffusion Cloud Chamber, by J/P. Franck, H. G. Hertz.

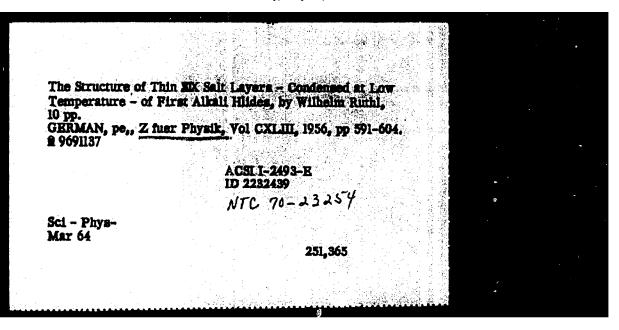
GERMAN, per, Zelt. fur Physik. Vol 143, pp 559-590, 1936

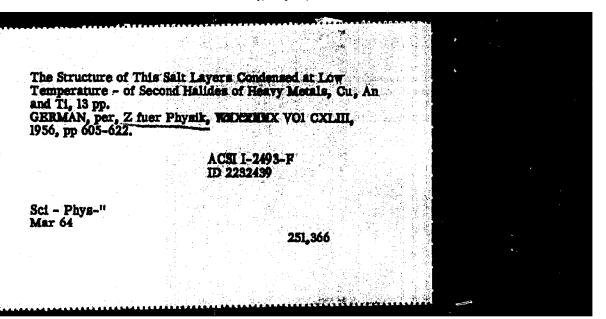
AEC AI-Tr-93

Sci-ES&A

Nov 65

291,971





Studies on Thermoelements From the Rhenium-Iridium System, by G. Haass, G. Schneider, 7 pp.

GEROMA, Der, Z fuer Physik, Vol CXLIV, 1956, pr 356,282

AEC tr 3835

Sei - Phys Jan 60

104,889

Generation of a Stream of Hydrogen Atoms With Unidirectional Bucker Spin, by G. Clauenitzer, R. Floischmann, H. Schopper, P. Pp.

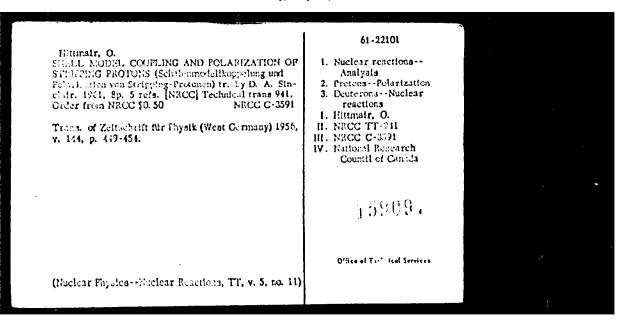
GERMAN, per, Z Physik, Vol CYLIV, 1956, pp 336-342.

AEC AEEE-Lib Tr 768

Sci - Nuc Pays

Sap 58

73,786



Collective and Individual Degrees of Freedom in Helium II., by W. Brenig, 38 pp.

GERMAN, per, Z Physik, Vol CXLIV, 1956, pp 488-508.

ABC UCRL-Trans-681(L)

Sci - Phys 0ct 61

171, 225

List 60

Unified Dynamics and Thermodynamics of a Thormal Plasma, by H. Maecker, Th. Peters, 58 pp.

HERMAN, per, 2 fuer Physik, Vol CXLIV, 1956, pp 586-611. CIA 9031469

Rand Copp T-90

Sci - Phys

Aug \$8

71,369

New Method of Measuring Extremely Small Ion Current in High Vacuum, by W. Schutze, P. Bernhard.

GERMAN, per, Z. fuer Physik, Vol CXLV, No 1, 1956, pp 44-47.

Sci - Phys May 62

Sup 62-16302 /96,425

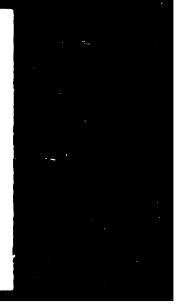
Mechanism of the Energy Transfer in the Sensitized Fluorescence of Organic Mixed Crystals, by H. C. Wolf, 7 pp.

GERMAN, per, Z. fur Physik, Vol CXLV, 1956, pp 116-124. CIA 9004653

A.C.S.I.L. Tr 887

Sci - Chem; Physics May 57 CTS/dex

47, 532



Macroscopic Expansion and Lattice Disorder in Silver Bromide Crystals, by W. Zieten.

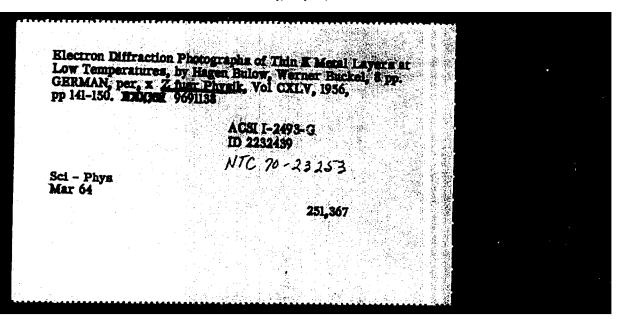
GERMAN, per, Z. Phys. Vol CXLV, No 1, 1956, pp 125-

ASLIB-0B-131

Sci

Aug 58

71,006



Hall Effect and Electrical Resistance of InSb in Strong Magnetic Fields and at High Pressures, by J. Gielessen, K. Klitzing, 5 pp.

GERMAN, per, Z Physik, Vol CXLV, 1956, pp 151-155.

SLA 57-2338

May 58

63,197

In the Edectrical Behaviour of Bi-Crystal Interlayers, by H. F. Matare.

MERMAN, per, 2. fuer Physik, Vol E CXLV, 1956, pp 206-234.

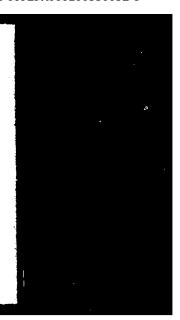
CSIRO

Sci - Thys Jul. 62

201,666

Electron Theory Investigations on Vacancies in Metals: The Association Energy of Vacancy Pairs in Monovalent Metals as in Transition Metals, by A. Seeger. GERMAN, per, <u>7 Physik</u>, No 145, 1956. pp 161-183. *NES TT 70-57514

Sci-Mat Aug 70



Hasse, G. and Schneider, G. INVESTIGATIONS ON THERMOELEMENTS OF THE SYSTEM IRIDIUM-RHENIUM. [1962] 10p. (figs. omitted) 5 refs.
Order from SLA \$1.10 62-18263

Trans. of Zeit[schrift] für Physik (West Germany) 1956, v. 144, p. 256-262.

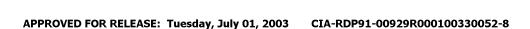
DESCRIPTORS: *Temperature sensitive elements, *Thermocouples, Crystals, *Rhenium, *Iridium, Tungsten, Thermoelectricity, High temperature research.

The thermopotentials of ir, Re, and of alloys of the synttem ir-Re, against W were measured up to 24500C. The upper limit of usefulness of thermoelements of this kind is apparently between 2000 and 2400°C., depending on the combination. Systematic studies covering the entire range of concentrations showed the following to be a (Physics--Thermodynamics, TT, v. 9, no. 3) (over)

62-18263

1. Hasse, G. II. Schneider, G.

Office of Technical Services



On the Transmission of Monochromators, by G. Bauer.

GERMAN, no per, Z Phys. Vol CXLV, 1956, pp 279-2 300.

DSIR/28791/CF

Sci - Physics Sep 57 52,385

Continuum Theory of Dislocations, by E. Kroner and G. Rieder.

GERMAN, per, Z. Phys, Vol. 1956, pp 424-429.

ASLIB-CB4

Sci

Aug 58

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Saturation Magnetization of Nickel Under High Hydrostatic Pressure, by K. H. von Klitzing. GERMAN, per, Zeitschrift fuer Physik, Vol 146, 1956, pp 59-64 NTC 72-12351-200

July 72

APPROVED FOR RELEASE: Tuesday, July 01, 2003

CIA-RDP91-00929R000100330052-8

Waldelich, Wilhelm.
THE QUESTION OF A AgBr STRUCTURAL CHANGE IN THE FORMATION OF THE LATENT IMAGE.
7 'Ar 63, 13p. 14 refs. Order from SLA \$1,60

63-14054

Trans. of Zeitschrift für Physik (West Germany) 1956, v. 146, p. 505-514.

DESCRIFTORS: *Photographic images, *Silver compounds, *Bromides, Crystal lattices, *Thotographic chemicals, Photographic film, X-ray photography, Photographic emulsions

In the present work, a search is made with monochromatic X rays for signs of a B 3 structure in Debye-Scherrer diagrams. Photographic films that were moved along through the primary beam to avoid greater exposure to the X ruys during the Debye exposures were used as the sample. In each case, photographs (Materials--Photographic, TT, v. 10, no. 4) (over)

63-14054 I. Waidelich, W. Office of Technical Services

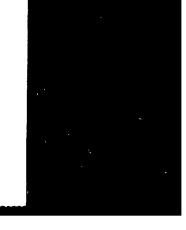
Unified Dynamics and Thermodynamics of A Thermal Plasma, by H. Maicker, Th. Peters, 40pp.

GERMAN, per, Zeitschrift fur Physik, Vol 144, 1956, pp 586-611.

CFSTI TT-64-71351.

322,679

Sci - Physics Apr 67



61-16459 Stroeche, H. THE EPPICIENCY OF CADMIUM SELENIDE LAY-ERS AT SELENIUM RECTIFIERS, II. [1961] 20p. (5 figs. omitted) 34 refs. Order from SLA \$1.60 61-16459 I. Stroeche, H. 61-16459 Trans. of Zeitschrift für Physik (West Germany) 1956, v. 145, p. 397-610. DESCRIPTORS: *Selenium rectifiers, *Selenides, 176527 Cadmium compounds. It was found experimentally that the two structures of the CdSe. i. e. the cubic and the hexagonal one, behave differently with respect to placement of the excess Cd. At the cubic CdSe the placement of excess Cd in the lattice will cut down the electric resistance more than this is the case for the hexagonal CdS. One may raise or lower at will the electric resistance by tempering Office of Tocholeal Services the samples in Se or Cd vapor, respectively. Accord-(Engineering -- Biectrical, TT, v. 6, no. 6) (over)

english title unknown, by H. Rollnik. GERMAN, per, Zeit. fur Physik, Vol 145, 1956, pp 639-653. *NASA TT F 13,302

oct 70

On an Experimental and Theoretical Determination of the Thermal Conductivity of the Plasme in a High-Current Carbon Arc, by R. Wienecke, 24 pp.

GERMAN, per, Z Physik, Vol CXLVI, 1956, pp 39-58.

AEC Tr SCL-T-48

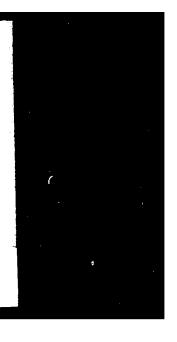
Sci - Phys

Sop 58

73, 739

Electron Theory Investigations about Vacancies inHetals: Influence of Mislocations on Crystals Layers and Applied Problems, by H. Stehle. GERMAN, per. Z Physik, No 146, 1956, pp 217-241. *NBS TT 70-57513

Sci-Phys Aug 70



Ca the Diepersion of the Machings in belt-Quenching Collyunting Juber I., by h. Huster, W. Ziegler. GERMAN, per, Z. Tuer Payeth, Vol Clint, 1956, pp 181-494. CETRO

Sei - Phys
Jo7, 608

VELOCITY ANALYSIS OF LAVAL BEAMS, BY E. W. BECKER, W. HENKES, 15 PP.

GERMAN, PER, Z FUER PHYSIK, VOL CXLVI, 1956, PP 320-332. 9082374

AEC TR-4792

SCI - PHYS

NOV 61

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Beams From Condensed Atoms and Moleculos in a High Vacuum, by E. W. Bocker, K. Bier, W. Henkes, 8 pp.

GERMAN, per, Z fuer Physik, Vol CXEVI, 1956, pp 333-338. 9093605

AEC Tr-4790

Sci - Pays Dec 61 111, 405

On the Ion Reflection and Secondary Electron Emission in the Collision of Alkali Ions with Pure Holybdamum Surfaces, by C. Brunnee. GERMAN, per, Zeitschrift fuer Physik, Vol 147, 1956, pp 161-83. SIA TT-66-11066

332, 211

361 67

A New Microbalance of Quartz for Work - Under Highest Vacuum, by Herbert Mayer, IK Klaus Behrndt, 10 pp.

GERMAN, per, Z fuer Physik, Vol CXLVII, No 4, 1957.

NACA CM-52538

8c1 - Engr

50,528

Aug 57

Gas Thornometry at High Temperatures I. A New Method of Gas Thornometry, by R. Moser, J. Otto, Thomas.

GERMAN, per, Z Phys, Vol CXLVII, 1957, pp 59-75.

DSIR/31028/CT

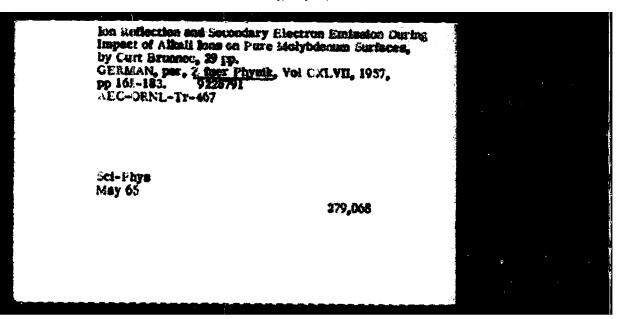
Sci - Physics Feb 58 58,840

Gas Thermometry Moneurements at High Temperatures. II. Determination of the Gold Rin Point, by H. Moser, J. Otto, W. Thomas.

GERMAN, per, Z Phys. Vol CKLVII, 1957, pp 76-91.

DSIR/31027/CT

Sci - Physics Feb 58 58,838



Theory of the Reflection of Positive Ions on Metallic Surfaces, by Oldrig V. Rone, 26 pp. GERMAN, per, Zeitschrift für Physik, Val 147, 1957, pp 184-209. P91122367
AEC NP Tr-1538

331,121

Sci - Muclear Science
Jul 67

Energy Distribution of Secondary Electrons
Released by Protons in Gases, by Erich Blauth.
GERMAN, per, Z. Phys, Vol 147, 1957, pp 228-240.
ANL-Trans-723

July 69

384-709

Absolute & Counting in Samples of Saturation Thickness, by J. Heintze, H. Fischbock, 16 pp.

GERMAE, per, 2 fuer Physik, Vol CXLVII, 1957, pp 277-287.

ARRE LAB Tr 810

Sci - Phys

Ray 59

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Forced Oscillations of a Simple Monlinear System. I. The Differential Equations and Their Steady-State Solutions, by Werner Braunbek, 15 up. UNCLASSIFIED

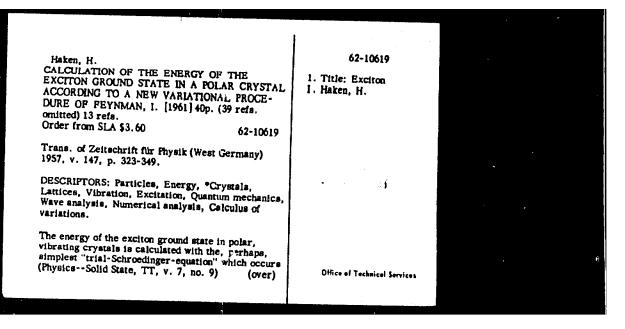
GERMAN, per, Z fuer Physik, Vol CXLVII, 1957, pp 297-306.

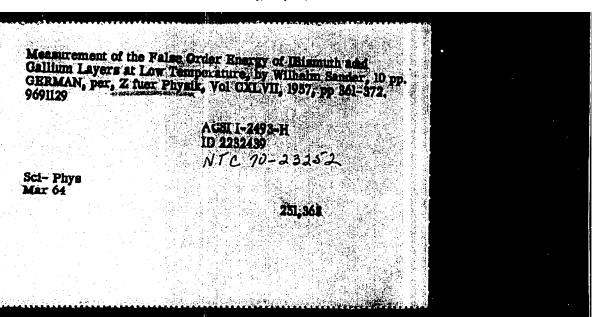
RACA N-57659

Sci - Phys

58,472

Feb 58



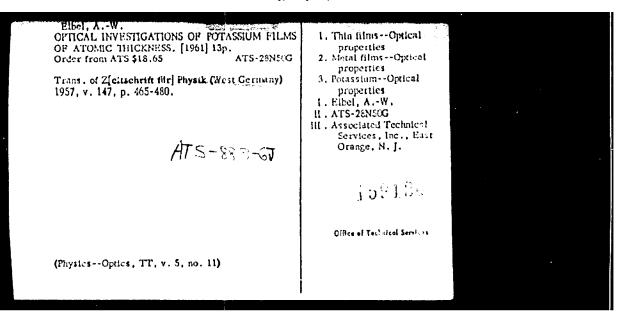


62-16689 Thomas, Harry, OUTER PHOTOELECTRIC EFFECT OF ALKALI I. Thomas, H.
II. Title: Its ...
III. Title: Range ... METALS, L. ITS THICKNESS DEPENDENCE FOR POTASSIUM: RANGE OF THE PHOTON IN THE METAL. [1962] [33]p. 47 refs. Order from SLA \$3.60 62-16689 Trans. of Zeit[schrift für] Phys[ik] (West Germany) [1957] v. 147, p. 395-418. DESCRIPTORS: *Alkali metals, *Photoelectric effect, *Potassium, Thin films, Volume, *Photons, Distribution, *Plasma physics. Earlier work was continued by measuring the thickness dependence of the Motoelectric emission of thin layers of potassium evaporated in highest vacuum onto a quartz support at low temperature. Measurements were made at constant irradiation at wave lengths between (Physica--Solid State, TT, v. 9, no. 2) Office of Technical Services

The External Photoelectric Effect of Alkali
Metals. II. The Spectral Distribution of the
Quantum Yield in Potassium, by H. Mayer,
H. Thomas.
GERMAN, per, Zeitschrift für Physik, Voll47,
1957, pp 419-441.
NASA TT F-10,907

GOVERNMENT USE ONLY
Sci-Phøs
Aug 67

338,708



The Dependence of Photoelectric Currents on the Electric-Piela Strength, by F. Stockmann, 19 pp.

GERMAN, per. 2 für Prysik, Volkalvii, No 5, 1957, pp 544-566.

SIA 6-14199

Sci Jan 62 181,286

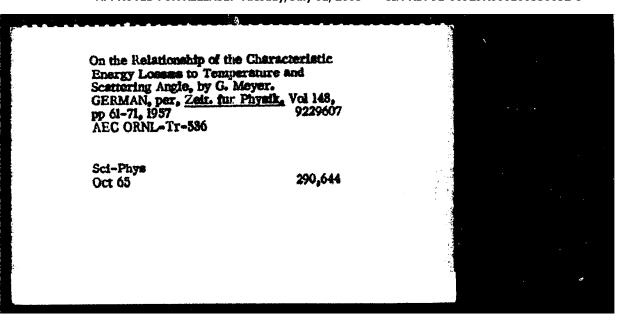
Vol III, Ho 10

Heiland, G.
ON THE INFLUENCE OF HYDROGEN ON THE
ELECTRICAL CONDUCTIVITY ON THE SURFACE OF
ZINC OXIDE CRYSTALS. 14p 21refs.
Order from SLA \$1.60

Trans. of Zeitschrift filt Rhysik (West Germany) 1957,
v. 148 [no. 1] p. 15-27.

(Chemistry--Physical, TT, v. 12, no. 5)

Office of Technical Barvices



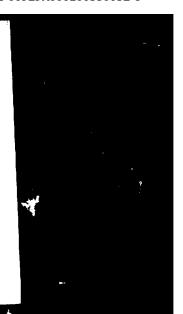
Investigations of the Energy Loss of Slow Electrons in Mitrogen, by (Beas Rudolph, 21 pp.

GERMAN, per, Z. fuer Phovik, Vol CELVIII, 1957, pp 177-191. 9668693

Ler Metodrol Soc T-G-188

Sci - Fays May 63

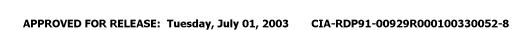
231,949



The Piezoelectric Effect in Selenium, by H. Gobrecht, et al. GERMAN, per, Z. Physik, Vol 148,1957, pp 209-17.
ATS 1210-GJ

Sci - Chex Phy Ang. 67

338,282



Elektronanbeugung Saufnahmen von Neuartigen Zinn -- Wismit-Legierungen, by H. Bulow.

GERMAN, per, Zeit für Physik, Vol CXLVIII, 1957, p 321.

*possibly to be done by ACSI

Sci -Apr 63

Observation of Individual Electron Avalanches and of Their Secondary Processes in Gases, by J. K. Vogel.

GERMAN, per, Z. fur Physik, No 148, 1957, pp 355-373.

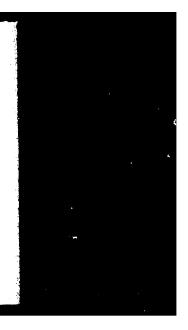
CSIRO

Sc1 - Phys Mar 62

189,289

Electrical Conductivity Measurements on Ag-Halide Single Crystals, by R. Matejac.
GERMAN, per, Z. Physik, No 148, 1957, pp 454-495.
*NBS TT 70-57443

Sci-Mat Aug 70



The Microfield in Total Units With Reciprocal
Effect According to Coulomb's Law, by G. Beker,
17 pp.

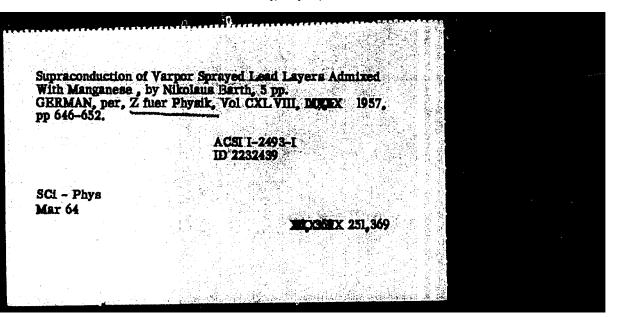
GERHAN, per, Z. fuer Favaik, Vol CXLVIII, 1957,
pp 593-606. 649795

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Soi - Phys
Nov 59

102,113

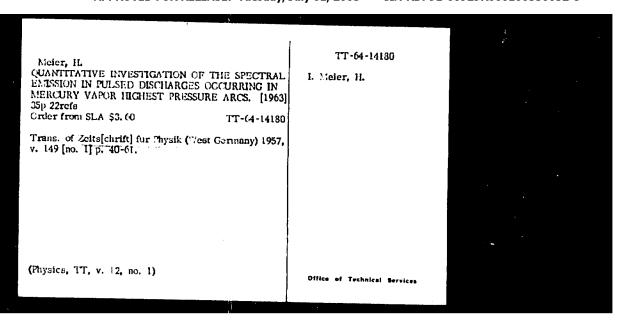


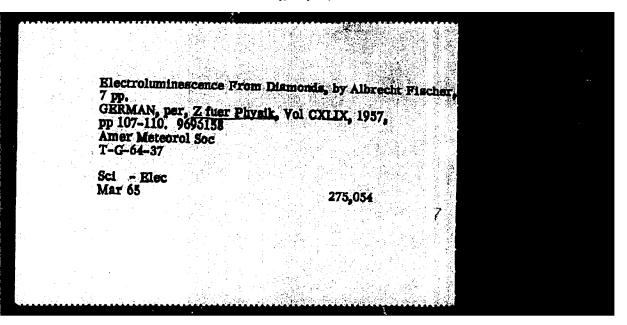
Die Stabilisierung des Zwischenzustandes der Supraleitung Durch Kritische Streme, by W. Bucket, R. Hilsch.

GERMAN, per, Zeit fur Physik, Vol CXLIX, 1957, p 1.

*possibly to be done by ACSI

Sci Apr 63





The Elastoplastic Behavior of a Cationic Exchanger, by D. Rhysheleng. Schloegl.
GERNAN,per, Z. Phys, Vol 11, 1957, pp 137-49.
AEC ORNL-tr-1663

Sci - Chem Oct 67

342,341

Schonheit, Eberhardt.

MASS SPECTROSCOPIC INVESTIGATION OF PHOTO-IONIZATION IN GASES (Massenspektroskoplache Universuchungen der Photoinisation in Gasen). [1960] [29] p. 88 refs.

Order from SLA mi\$2.70, ph\$4.80 61-10706

Trans. of Z[eitschrift fllr] Physik (West Get many) 1957, v. 149, p. 153-179.

Mass spectra were photographed for air, nitrogen, oxygen, argon, water vapur, mercury vapor, and illuminating gas. The photoionization was produced by a vacuum spark the light from which was not decomposed spectrally. The ionization products which were found can be explained by simple photoionization, respectively by dissociation. Compared to oxygen, nitrogen shows under similar conditions a weaker photodisaociation. For purposes of comparison the photoionization was investigated also with light which was filtered through lithium fluoride. (Author)

(Chemistry--Physical, TT, v. 5, no. 9)

Changes in the Holtsmark Profile of the Salmer Lines in Plasma, by G. Hoker, 11 pp.

GERNAH, per, 2 Physik, Vol CIL, 1957, pp 254-266.

149,

Assoc Sech Serv 675276

May 59

039, VI, No 6

67K 27G

86,285

English Title Unknown, by Herbert Mayer and Harry Thomas, GERMAN, per, Zcitschrift für Physik, Vol CXLVII, 1957, pp 419-441.
*NASA TT F-10,907

Apr 67

The Condensation Behaviour of Substances With High Boiling Points, by K. G. Gunther.

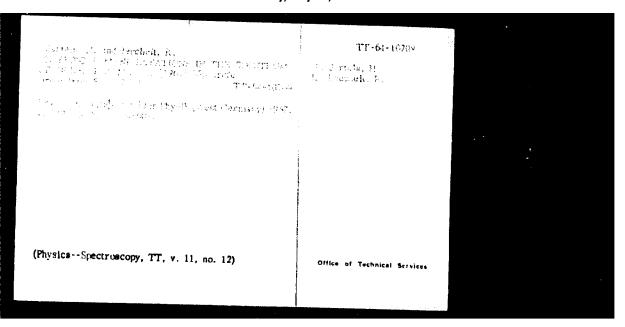
GERMAN, per, 2 fuer Physik, Vol CXLIX, 1957, pp 538-549.

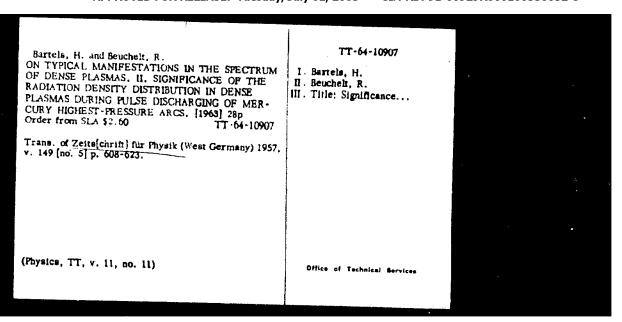
*TIL T-5123

Sci - Chem

Jul 60







Theory of the Low Temperature Peak of the Internal Priction of Metals, by Hand Donth, 33pp.

GERMAN, per, Z Physik, Vol CXLIX, 1957, pp 111-130.

AEC 3390

8c1 - Phys

Jet 58

75,587

Physical Processes During Electrical Wire Explosions, by Erwin David, 18 pp.

GERNAN, per, Z fuer Physik, Vol CL, 1958, sp 162-171. 649773

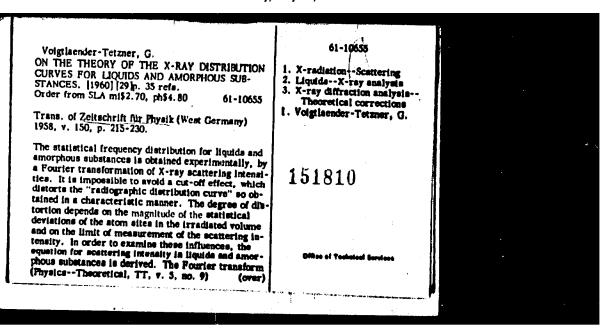
AEC/8CL-T-242 OTIA 4754

Sci - Phys

May 59

X-3716

88,046



On the Appearance of Jets in Carbon Arcs of a High Current Intensity, Part I., by R. Wienecke, 18 pp.

GERMAN, per, Z Physik, Vol CL, 1958, pp 231-241.

ABC-tr-3737

Sci - Phys Aug 59

94,728

The Influence of Impurity Surface Films on Structural Changes of Thin Evaporated Metall Films During Anneeling, by K. J. Hanszen, Ez 21 yp.

GERMAN, per, Zeitschrift für Physik, Vol CL, 1958, pp 527-550. (9202875)

A.C.S.I.L. Tr 1221

Sci - Phys Apr 63

226,532

The Line Profiles of Thermally Excited Helium Lines, by H. Hulff. GERMAN, per, Zeit Physik, Vol GL, 1958, pp 614-631.

NASA TT F-10,255

Sci-Phys Oct 66

312,259

U. S. GOVERNMENT USE ONLY

Kranz, J. and Drechsel, W.

ORSERVATION OF THE WEISS REGIONS IN POLY-CRYSTALLINE MATERIALS BY INCREASED MAGNETO-OPTICAL KERR ROTATION. [1963] 11p. 4 refs.

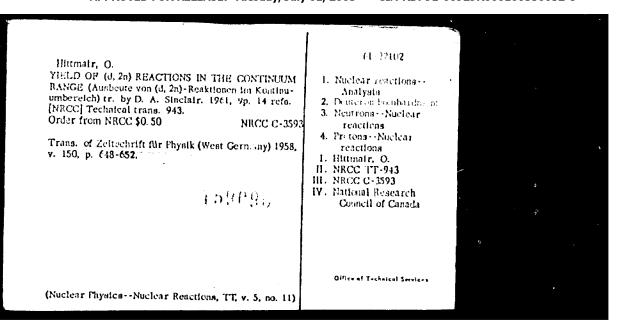
Order from SLA \$1.60

Trans. of Zeitschrift filr Physik (West Germany)

1958. v. 150. p. 632-639.

DESCRIPTORS: *Ferromagnetism, Crystals, *Domains (Crystallography), Visibility, *Magneto-optic effect, *Zinc compounds, Sulfides, Thin films, Vapor plating.

A ZnS layer of specified thickness is vaporized on a polished ferromagnetic specimen. The magneto-optical Kerr rotation of linearly polarized monochromatic light with meridional magnetization of the specimen is increased by multiple reflections in the layer and by (Physics --Solid State, TT, v. 10, no. 5) (over)



The Ruclear Resonance Gamma-Ray Fluorescence in $1n^{191}$, by findoir L. Mossobanar, 30 pp.

GERMAN, per, Z. Physik, Vol CLI, 1958, pp 124-143.

AEC-Tr-3685

84 - Nuc Phys

Jul 59

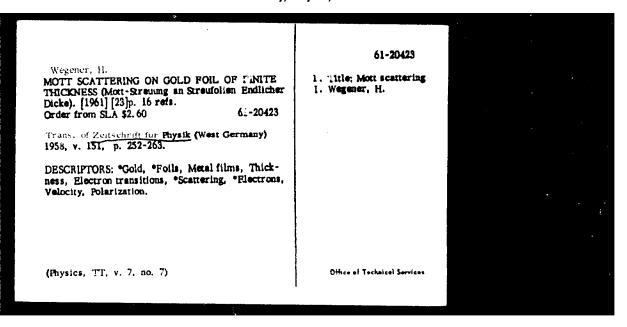
92,053

On the Occurrence of Vapour Jets in High-Current Carbon Arcs, by R. Wienecke. GERMAN, per, Zeitschrift für Physik, Vol 151, No 2, 1958, pp 159-173. BISI 4574

AEC TR- 3745

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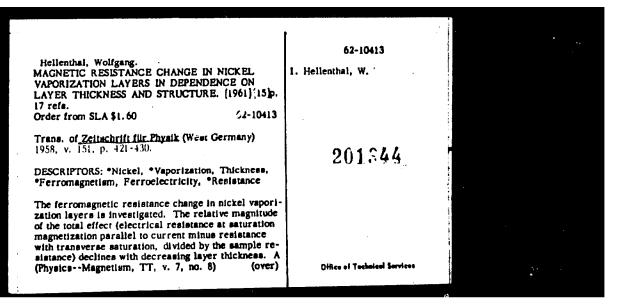
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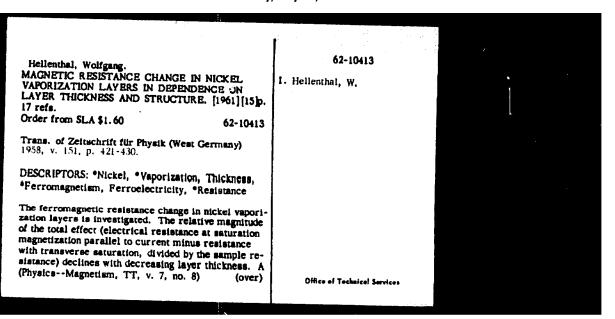
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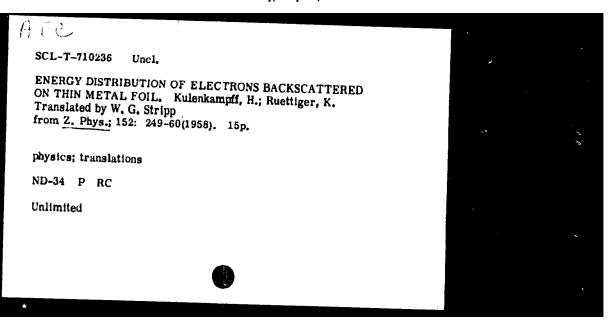
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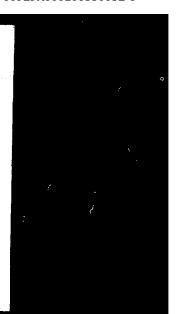
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