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ANL Tr-5316

Sci - Phys
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On the Theory of the Conversions of Metallic Mixing
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*FTD-TT-63-1161

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37 pp.
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AEC/LA/Tr-67-68

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Anisotropy in the Thermal Conductivity and
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20°K, by E. Gruneisen, H. Adenstedt.
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NASA TT F-11,079

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On the Magnetic Aftereffect in Carbonyl Iron, by
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On the Validity Range of the Resonance Principle of
Charge Transfer, by Franz Wolf, 23 pp. UNCLASSIFIED.

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SLA 57-3155

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Order from SLA \$1.60 63-10676

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*Sodium compounds, Bromides, Chlorides, *Color
centers, Excitation, Absorption spectrum,
Temperature.

The variation of the absorption spectrum of the color
centers in KCl, KBr, and NaCl crystals between 400
and 1000m μ caused by the excitation process is de-
monstrated. The quantum yield for the optical trans-
formation of F-centers to F'-centers exhibits a con-
(Physics--Solid State, TT, v. 10, no. 2) (over)

63-10676

I. Pick, H.

Office of Technical Services

Nucleation During Precipitation in Metallic
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Jan 64

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II. Lowering of the Gamow Peak in Excitation of
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AEC NP Tr-361

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May 60

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*AEC ORNL Tr 1744

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*FTD-TT-63-1160

Sci - Physics
Dec 63

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brilliance" by G. Vaudet; 82 pp.

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94, 416

The Diffraction of ^gX_g X-Rays at Very Small Angles.
Application to the Study of Ultra-Microscopic
Phenomena, 83 pp.

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SLA 57-3073

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Aug 58

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Agency: Air Force *R-4352-E*
A.O.#: AND-0001 70-3 *25 Feb 70*
Title: Über eine experimentell beobachtete
Erscheinung an Wirbelringen bei ...
Author: Krutzsch, C
Source: Annalen der Physik(5) 35, 497 (1933)
Language: German to English *52 pp*
Special Instructions: Please translate and
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Between $+135^{\circ}$ and -253° C. Dependence of Crystal
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Associated Electrical Industries
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Tr No T/454 OE/204

Scientific - Physics, thermal, metals, temperature,
thermo-electric, circuits, unimetallic

Index Aeronauticus

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1941, 55, Vol 39, pp 59-80

ntc 70-25207

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S.L.A. Tr No 57-11

Sci - Physics
Apr 57

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The Variation of Thermoelectric Phenonema in
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NASA TT F-11,049

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Aug 67

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*NBS TT 70-57336

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20 refs.
Order from RIS \$6.00 RIS E-656

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v. 42, no. 4, p. 241-253.

143,128

(Physics--Electronics, TT, v. 5, no. 1)

61-12042

- I. Secondary emission--
Analysis
- I: Geyer, K. H.
- II. RIS E-656
- III. Research Information
Service, New York

Office of Technical Services

Dielectric Constants of Higher Alcohols at the Solidi-
fying Point, by E. Frosch, 32 pp.

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SLA Tr 57-2649

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SLA 57-3387

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Sci - Phys
Sep 59

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Pole, with Applications to Wave Optics and
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ATS 1223-GJ

Sci - Phys
Aug. 67

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NACA Tr 1362

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Aug 54 cts

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ERBIUM. [1961] 23p. 22 refs.
Order from SLA \$2.60

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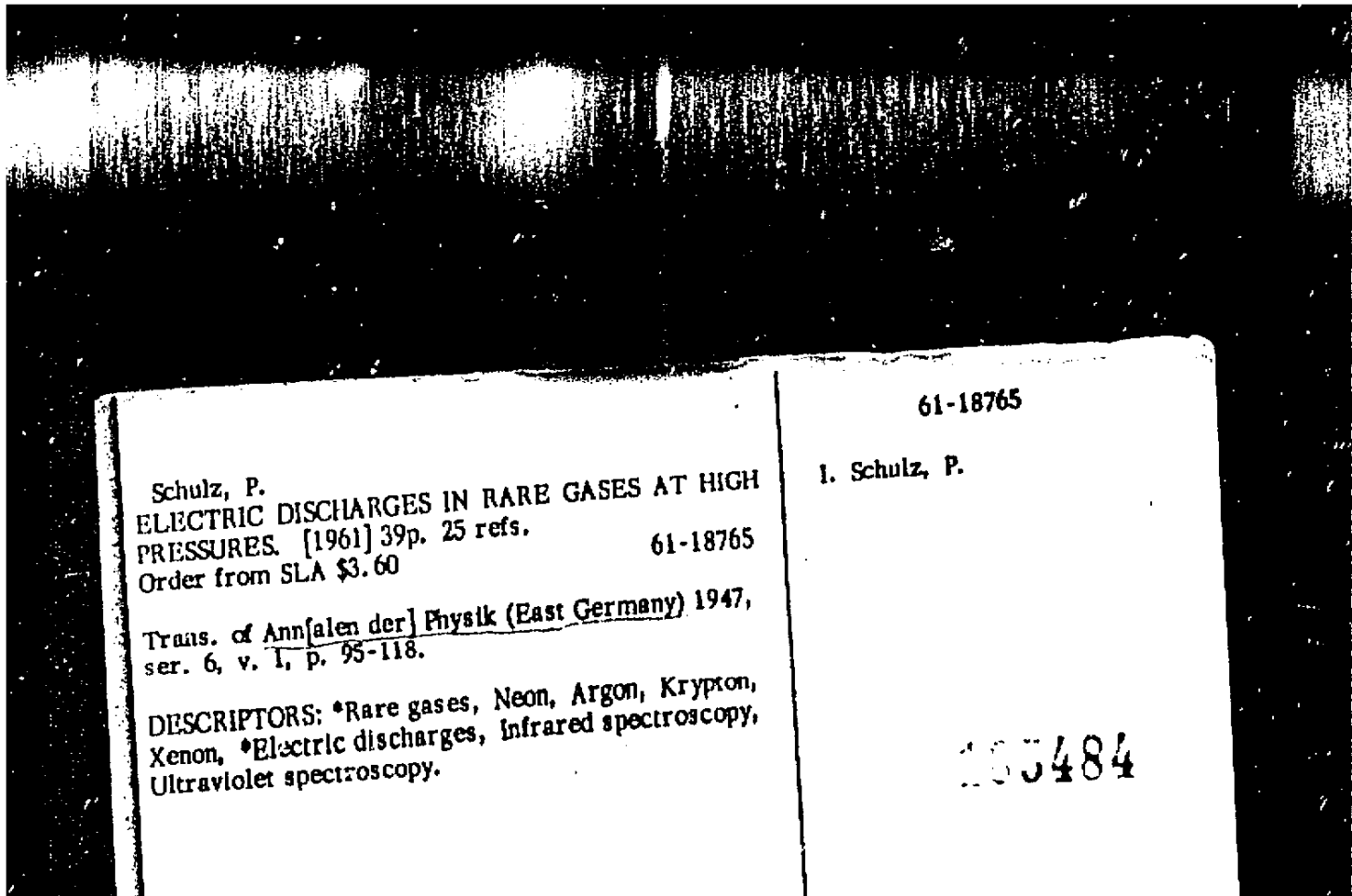
DESCRIPTORS: *Erbium, *Salts, Spectrographic
analysis, Infrared spectroscopy, Electron transitions.

(Chemistry--Inorganic, TT, v. 7, no. 1)

61-20037

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Office of Technical Services



Schulz, P.
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PRESSURES. [1961] 39p. 25 refs.
Order from SLA \$3.60

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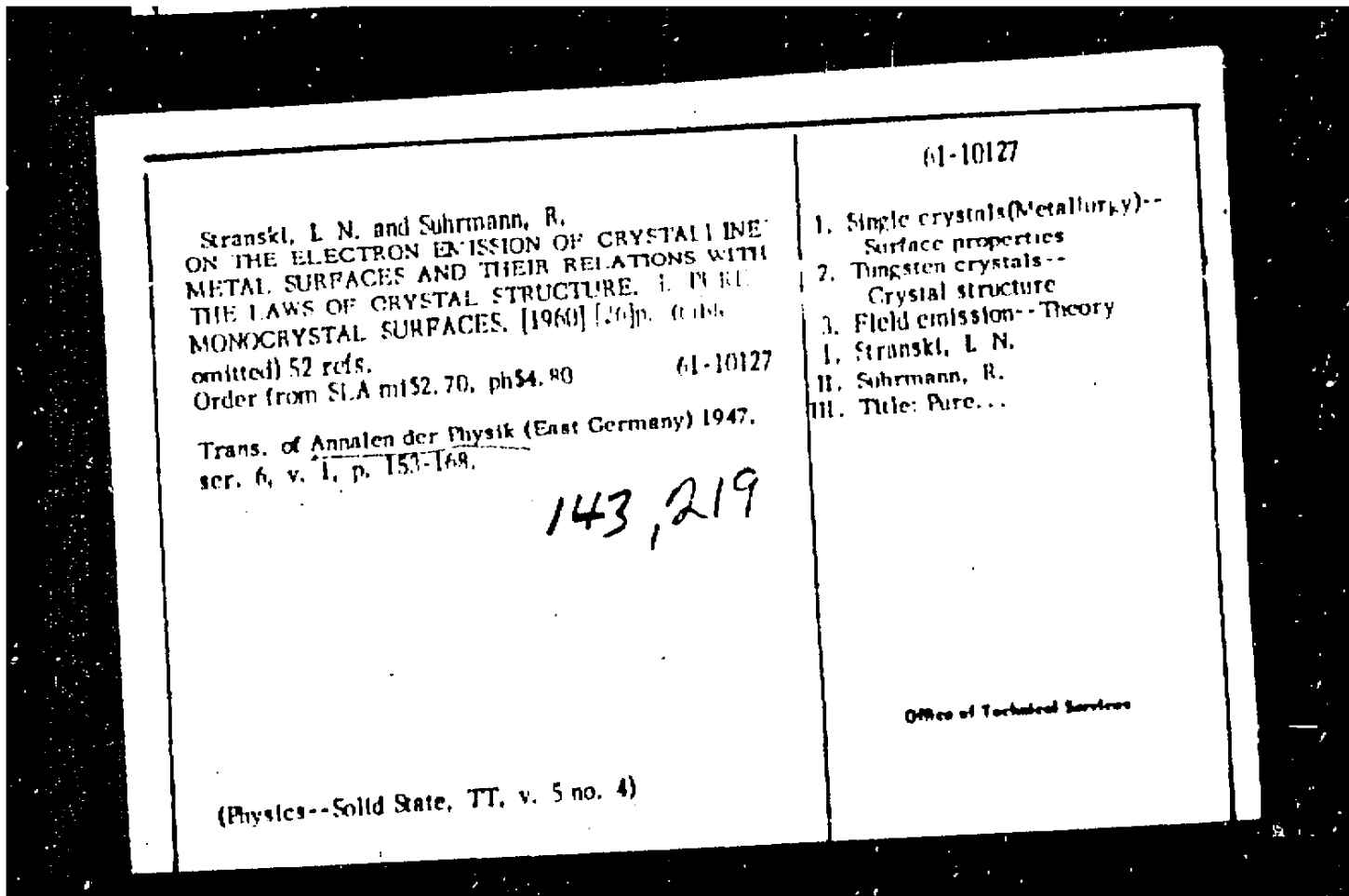
I. Schulz, P.

61-18765

Trans. of Ann[alen der] Physik (East Germany) 1947,
ser. 6, v. 1, p. 95-118.

DESCRIPTORS: *Rare gases, Neon, Argon, Krypton,
Xenon, *Electric discharges, Infrared spectroscopy,
Ultraviolet spectroscopy.

163484



63-14465

I. Rausch, K.

Rausch, Konrad.
STUDIES ON ANTIMONY SINGLE CRYSTALS WITHIN
TRANSVERSAL MAGNETIC FIELDS (ELECTRICAL-
AND THERMAL RESISTANCE: THERMOELECTRIC
POWER) [Untersuchungen an Antimon-Einkristallen im
Transversalen Magnetfeld (Elektrischer und Thermischer
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[1963] 24p. 30 refs. 63-14465
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Trans. of Annalen der Physik (East Germany) 1947
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DESCRIPTORS: *Single crystals, *Thermocouples,
*Antimony, Nickel alloys, Copper alloys, *Magnetic
fields, Crystal lattices, *Thermal conductivity,
Resistance (Electrical), *Thermoelectric generators.

The relative change of electrical and thermal resistance
in transversal magnetic fields up to 12 kOe is measured
(Physics--Solid State, TT, v. 10, no. 6) (over)

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AEC (CERN-Trans-72-3) NEW AND FUNDAMENTAL EX-
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Translated by J. Nicholls (CERN, Geneva, Switzerland), from
Ann. Phys. (Leipzig); 1: 333-46(1947). 25p. Dep. NTIS (U. S.
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MN-34 NP NSA

Intermolecular Energy Transference and Fluorescence,
Part III. The Mechanism of Energy Transition, by
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AEC Tr 1875

Scientific - Physics
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The Degeneracy of the Electron Gas Resulting From
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ABC USRL TR-760(L)

Sci - Phys
May 62

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Various Types of Changes Suffered by Pure
Substances, by J. Jaffray.

FRENCH, per, Annales de Physique, Vol. 3, 1948,
pp 128

CSIRO/No. 7001

Sci -
Aug 67

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Magnetic Properties of Ferrites, Ferromag-
netism and Antiferromagnetism, by L. Neel,
46 pp.

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pp 137-198.

SLA 57-3472
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Aug 58

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Study of Cerium-magnesium Alloys, by Francoise Mahn,
107 pp.

FRENCH, per. Ann. de Phys. Vol III, Ser. 12, 1948,
pp 393-457.

S.I.A. Tr No 374/1955

Sci - Minerals/Metals, *Physics*
Jan 1957 CTS/dex

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Electronic Energy Levels and Radiation of Atoms in
Crystals, (Parts I Thru V), by K. H. Hellwege, 119 pp.

GERMAN, per, Ann Physik, Vol VI,^{1/1} 1948, pp 95-163.

AEC UCRL Tr-399(L)

Sci - Phys
Aug 62
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THE ELECTRICAL CONDUCTIVITY OF ZINC
OXIDE. [1961] 7p.
Order from ATS \$11.20

ATS-57N49G

Trans. of Ann[alen der] Physik (East Germany) 1948,
ser. 6, v. 3, p. 223-229.

01-12984

- I. Zinc oxides--Conductivity
- I. Mollwo, E.
- II. Stockmann, F.
- III. ATS-57N49G
- IV. Associated Technical Services, Inc., East Orange, N. J.

1961

Office of Technical Services

(Physics--Solid State, TT, v. 5, no. 10)

Mollwo, E.
DATA ON THE PHOTOCONDUCTIVITY OF ZINC
OXIDE. [1961] 9p.
Order from ATS \$13.75

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Trans. of Ann[alen der] Physik (East Germany) 1963,
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- II. ATS-58N49G
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1963

Office of Technical Services

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2. Zinc oxide--Photoconductivity
- I. Mollwo, E.
- II. Stockmann, P.
- III. ATS-59N3G
- IV. Associated Technical Services, Inc.,
East Orange, N. J.

159141

Office of Technical Services

(Chemistry--Physical, TT, v. 5, no. 11)

Pulse Generation of Intense Magnetic Fields, by
Gaston Raoult.

DE GEDMAN, par, Annalen der Physik, Vol IV, 1949,
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NASA TT F-8223

Sci - Engr
Jan 63
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219,858

On the Reflection of Spherical Waves, by H.
Ott, 13 pp.

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N Vol IV, 1948-1949, pp 432-440.

S.L.A. Trans 958

Sci - Physics

29,894

Path of Determined Fragments of Uranium Fission
in Various Materials, by Francis Suzor, 44 pp.

French
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AEC Tr-3646

Sci - Phys
14 Oct 60

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Pulse Generation of Intense Magnetic Fields.
Applications to Phenomena of Rotational
Polarization and Magnetic Birefringence, by
G. Raoult.

FRENCH, per, Annales de Physique, Vol IV,
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Sci -- Phys

21 Mar 62

Fassbender, J.
THE PHOTOELECTRIC PROPERTIES OF SINGLE
CRYSTALS OF CADMIUM SULFIDE. [Feb 63] 17p.
Order from ATS \$23.50 ATS-28P66G

Trans. of Annalen der Physik (East Germany) 1949,
ser. 6, v. 5, p. 33-50.

DESCRIPTORS: *Single crystals, *Cadmium com-
pounds, Sulfides, *Photoelectric effect.

(Physics--Solid State, TT, v. 9, no. 7)

63-12767

I. Fassbender, J.
II. ATS-28P66G
III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

New Measurements of the Radiation Dislocation
Effect During Total Reflection, by F. ~~Goos~~ Goos,
H. Hanchen, 4 pp.

GERMAN, per, Annalen der Physik, Vol V, No 3-5,
1949, pp XX 251, 252. 9226430

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*AEC - SC-T-64-2000

Sci
Sep 64

New Measurements of the Radiation Dislocation
Effect During Total Reflection, by F. Goos,
Hilda Lindberg-Haenchen. 4 p.
GERMAN, per, Ann. Physik, Vol 5, No 6, 1949,
pp 251-252.
AEC SC-T-64-2000

Sci/Electronics
May 66

300,473

Ionic Conduction and Disorder of Silver Bromide
With Additions of Bivalent Cations. I. Con-
ductivity Measurements and Phase Diagrams, by
J. Taltow, 19 pp.

GERMAN, per, Ann Physik, Vol VI, No 6, 1949,
pp 63-68.

AKC Tr 3596

Sci - Phys

May 59

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Grüneisen, E., Rausch, K., and Weiss, K.
STUDIES ON ELECTRIC AND THERMAL CON-
DUCTIVITY OF BISMUTH SINGLE CRYSTALS WITHIN
A TRANSVERSAL MAGNETIC FIELD. [1962] 24p.
10 refs.

Order from SLA \$2.60

63-10741

Trans. of Annalen der Physik (East Germany) 1950,
ser. 6, v. 7, no. 1/2, p. 1-17.

DESCRIPTORS: *Bismuth, *Single crystals, *Electrical
conductance, *Thermal conductivity, Magnetic fields,
Crystal lattices, Metallic crystals.

The influence of transversal magnetic fields on the
electric- and thermal conductivity of Bi-S-crystals
(main axis \perp rod axis) is studied particularly with re-
gard to the so called reversal effects (resistance
changes on field reversal). Lattice and electronic con-
tributions to the thermal conductivity are separated.
(Author)

63-10741

I. Grüneisen, E.
II. Rausch, K.
III. Weiss, K.

(Physics--Solid State,
TT, v. 9, no. 11)

Office of Technical Services

Some Observations on Methods of Current - Voltage charge
Measurement Using Electronic Valve Amplifiers, by W. Doe

GERMAN

~~XXXXX~~, Ann. Phys., Lpz., Vol VII, Nos 3,4, 1950,
pp 193-308.

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11/3/5/93
p 22005T

Scientific
~~SECRET~~ - Physics

Gobrecht, H.
THE OPTICAL ABSORPTION SPECTRUM OF THULIUM SULFATE. [1961] [7]p. 9 refs.
Order from SLA \$1.10 61-20209

Trans. of Ann[alen] der Physik (East Germany) 1950,
ser. 6, v. 7/8, p. 88-92.

DESCRIPTORS: *Thullum compounds, *Sulfates, Rare
earth compounds, *Ultraviolet spectroscopy,
Absorption spectrum.

(Physics--Spectroscopy, TT, v. 10, no. 5)

61-20209

I. Gobrecht, II.

Office of Technical Services

Rigorous Theory of the Refraction of Plane Electro-
Magnetic Waves at a Fully Conducting Circular Plate
and at a Circular Opening in a Fully Conducting
Plane Screen, by ~~Dr. Meixner~~ J. Meixner,
W. Andrejewski.

GERMAN, DEX, Annal Phys, Vol VII, 1950, p 157.

D.S.I.R./10439/CT

Scientific - ~~Electronics~~ *ELECTRICITY*

DEX ONLY

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On Reflection in an Inhomogeneous Medium, by K.
Forsterling, H. O. Wuster,

GERMAN, per, Ann Physik, Vol VIII, No 6, 1950,
pp 129-133.

NASA TT F-8039

Sci
Sep 61

168, 438

Reflection of a Lightwave Bounded on the Side
at the Less Dense Medium at Some Distance From
the Critical Angle of Total Reflection, by
Kurt Artmann.

GOVERNMENT USE ONLY

GERMAN, per, Annalen der Physik, Vol 8, No 6,
1951, pp 285-290. P200262767

RSIC-682

Sci-Phys
Sept 67

341,353

Benoit, H.
CONTRIBUTION TO THE STUDY OF THE KERR EFFECT EXHIBITED BY DILUTE SOLUTIONS OF RIGID MOLECULES. [1961].
Order from AC \$37.50

Trans. of Annales de Physique (France) 1951 [ser. 12] v. 6, p. 561-609.

DESCRIPTORS: *Molecules, Solutions, Refraction, Relaxation time, Molecular rotation, *Electric fields, Optics.

This study furnishes the following results: (1) The birefringence disappeared exponentially with a time of relaxation $1/6 D$ (D being the constant of diffusion of rotation of molecules) independently of the initial conditions. (2) The law of establishment of the field depends on the nature of the couple of orientation and there can (Physics--Molecular, TT, v. 7, no. 1) (over)

61-25899

- I. Title: Kerr effect
- I. Benoit, H.
- II. Capelo, A., Hollywood, Calif.

Office of Technical Services

TT-65-12337

Field 201

Seeliger, R.; Wichmann, A.
INVESTIGATIONS ON THE POSITIVE COLUMN OF THE
GLOW DISCHARGE IN OXYGEN, I, 15p, 6refs.
Order from SLA: \$1.60 as TT-65-12337

Trans. of Annalen der Physik (East Germany)
v9(s6) n5 p235-44 1951.

I. Seeliger, R.
II. Wichmann, A.

MR 630

Refraction and Reflection of a (Light-) Wave
Bounded on the Side at the Plane Interface of
Two Media Near the Critical Angle of Total
Reflection, by K. Artmann.

GOVERNMENT USE ONLY

GERMAN, per, Annalen der Physik, Vol 8, No 6,
1951, pp 270-284. P200249867

RSIC-6851

Sci-Phys
Sept 67

341,351

Electrical and Optical Behavior of Copper Sulphides, by L. Kissmann.

GOVERNMENT USE ONLY

GERMAN, per, Ann Physik, Vol 10, No 5, 1952, pp 129-152.

NASA TT F-12,225

Sci-Phys

Aug 69

390,10

Harry Dia. Bab. DAAG39-68F0943

R-8868-D

7 Nov 67

Innere Feldemission aus lokalisierten Fehistellen
isolierender Kristalle

By: Walter Franz

From: pp 2-24 Annalen der Physik 6. Folge Band 11, 1952
(21 pp)

German - est for wds:

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Specular Systems with Grazing Incidence as a
Image Optics for X-Rays, by H. Wolter, 22 pp.
GERMAN, Annalen der Physik, Vol 10, No 6,
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Sci/Phy
Dec 68

354,954

Contribution to the Study of the Kinetic Theory
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FRANCE
~~GERMANY~~, par, Ann Phys, Vol VII, No 12, 1952,
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*Sci
Jul 56*

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Absolute Measurement of Beta Activities, and its
Application for the Determination of Neutron Den-
sities, by Rene Cohen

FRENCH, Annales de Physique, Vol VII, no. 12, pp
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Ame. Nuclear Soc
T-48 FU T-45 FU
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10/10/62

Internal Conversion; Study of Some Excited States
of Heavy Nuclei Through Their Conversion Radiation,
by Jean Teillac, 51 pp. UNCLASSIFIED

Full translation.

FRENCH, per, Ann Phys, Vol VII, No 12, 1952,
pp 396-450.

AEC Tr 2042

Scientific - Nuclear Physics

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