

Concerning the Width of Spectral Lines, by A. J.
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No 47
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pp 791-808.

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TT 26 TT - 360

Scientific - Physics

Translation on tape Jun 55 CTS

The Cosine law in the Kinetic Theory of Gases,
by M. Knudsen,
GERMAN, per, Ann. Phys., Vol XLVIII, 1915,
pp 1113-1121. *P 910168367*
NASA TT F-486

REC/ORNAL-TR-1852

Sci-Phys
Jul 67

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On the Foundations of Crystal Optics. Part 1 -
Dispersion Theory, by $P. P. Ewald$.

GERMAN, per, Annalen der Physik, Vol 49, No 1,
1916.

AIR/AFGRL/70-0580

Tr No 84, 26 Aug 1970

Sci/Phys
Feb 71

On the Foundations of Crystal Optics. Part II -
Theory of Reflection and Refraction, by E. E. Ewald.
GERMAN, per, Annalen der Physik, Vol 49, No 2,
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Sci/Phys

Feb 71

Towards the Establishment of a Science of Crystal
Optics. Part I. Theory of Dispersion. Part II.
Theory of Reflection and Refraction, by P. P.
Ewald, 89 pp.

Sci. 14
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pp 1-38, 117-143.

SLA Tr 2453

Sci - Physics

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Aug 57

Vegard, L.
ELECTRICAL ABSORPTION IN DISCHARGE TUBES.
[3 July 62] 30p. 28 refs.
Order from SLA S2, 60

63-10088

Trans. of Annalen der Physik (Germany) 1916 [ser. 4]
v. 50, p. 769-795.

DESCRIPTORS: *Discharge tubes, Gas discharges,
Electric discharges, *Absorption, Magnetic fields,
Experimental data, Hydrogen, Oxygen, Helium, Ions.

(Physics, TT, v. 9, no. 12)

63-10088

L. Vegard, L.

Office of Technical Services

Björnstahl, Y.

RESEARCHES ON ANISTROPIC LIQUIDS. [1962] 60p.
51 refs.

Order from SLA \$5.60

63-10163

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v. 56, no. 11, p. 161-207.

DESCRIPTORS: *Liquids, *Anisotropy, *Optical
properties, Electric fields, Electrical effects,
Electrophoresis, Temperature, Refraction, Light.

Contents:

- I. Light extinction in anisotropic liquids
- II. On the influence of an electric field.

(Physics--Optics, TT, v. 9, no. 12)

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I. Björnstahl, Y.

Office of Technical Services

The Vertical Distribution of Condensation
Nuclei in the Free Atmosphere, by Albert
Wigand, 58 pp.

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Scientific - Physics

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R-472-N

Über die Verbreiterung von Spektrallinien,
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GERMAN, ger, Annalen der Physik, Vol LVIII,
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*JPRS for AEC

Sci - Phys
16 Feb 61

Sentfleben, Hermann and Benedict, Elisabeth.
DIFFRACTION OF LIGHT BY CARBON PARTICLES
OF LUMINOUS FLAMES. [1963] [34]p. 37 refs.
Order from SLA \$3.60 63-14686

Trans. of Annalen der Physik (Germany) 1919, ser. 4,
v. 60, no. 20, p. 297-323.

DESCRIPTORS: *Diffraction, *Light, *Carbon, Parti-
cles, Flames, *Optical properties, Brightness, Polari-
zation, Absorption, Optics

(Physics--Optics, TT, v. 10, no. 4)

63-14686

I. Sentfleben, H.
II. Benedict, E.

Office of Technical Services

The Mechanical and Acoustical Construction and
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The Perpendicular Transmission of Electromagnetic
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pp 734-762.

NASA TT F-8043

SLA 63-20849

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Sci
Sep 61

US GOV'T ONLY

Experimental and Theoretical Investigations of
Halo's in Homogeneous Fog Part I, by Reinhard Mecke
34 pp.

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pp 471-500. 000409

Amer Meteorol Soc. T-G-177

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Mar 63

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The Hydrodynamics of Edge Tones, by E. Schmidtke, 16 pp.
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1919, pp 715-733.

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June 72

R-4543-D

Some Optical Properties of Excited Media,
by Charles Cheveau, Rene Audubert.
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Experimental and Theoretical Investigation of Aurora
Phenomena in Homogeneous Fog. Part II. Theoretical
Investigations, by Reinhard Mecke, 30 p

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*Amer Meteor Soc 7-5-128

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30 pp.

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SLA 58-145

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The Self-Diffusion Rate of Molten Lead, by
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•NBS TT 70-57385

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pp 674-680.

Sci - Phys

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NTC 70-25556

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Calculation of π Optical and Electromagnetic Lattice
Potentials, by P. P. Ewald, 44 pp.
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Sci-Phys
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On the Eddy Currents Involved in the Spontaneous
Change of Magnetization, by B. Vvedenskiy, 10 11

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AEC Tr-4556

NTC 78-25308

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GERMAN, ber. Ann. Physik, 65, 1921, pp 216-222.
*NBS TT 70-57381

Sci-Mat
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A Method for Measuring the Dispersion of Artificial
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Aug 67

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Stability and Turbulence of Liquid Flows, by
Werner Heisenberg, 57 pp.

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FTD-TT-62-1596

NTC 70-24118

Sci-Phys

Sep 63

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MIPR AS-101 66-15(e)

R-6256-D

18 Nov 65

Die Rotation des elektrischen Lichtbogens bei
Atmosphärendruck; vo

By: Halge Stolt

From: ANNALEN DER PHYSIK V. 74 #1(1924):80-103 (24 pp)

(German - est for ads:

Type 1 original and 1 carbon copy. Do not include any
charts, graphs, or drawings. Put captions at the end.
Do include formulas and tables.

Remarks on Mr. Arthur V. Hippel's Article. The
Theory of the Thermomicrophone (1), by J. Friess and
E. H. Haetsmann, 4 pp.

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SLA 57-3023

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Aug 58

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Diffused Radiation of Dielectric Spheres for the
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Medium Possess Almost Equal Diffraction Indices,
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July 69

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Experimental Studies of the Explosive Wave and
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Jun 59

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FRENCH, per, Annales de Physique, Vol IV, Ser
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Sci - Chem, Phys
Jun 59

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Path Computation of Cathode Rays in the
Axisymmetrical, Electromagnetic Fields, by
H. Busch,
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SI-6-76-141

Sci-Phys
Mar 67

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Ghosts Produced by Non-Periodic Defects in Gratings,
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NLL Ref: 5828.4F (12902)

Sci/Mays
Apr 69

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On Wave Propagation in Wireless Telegraphy
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GOFFMAN, H., Annalen der Physik, Vol. 17, 1926, pp. 1155-1156.

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AEC-UCRL-10-150(1)

Ref. - Director

Aug 63

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On the Quantum Theory of Molecules, by Max
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Investigations of Phenomena Associated With Electrodeless Ring Discharge in Hydrogen, by Gerhard Herzberg, 17 pp.

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Jul 61

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Thermal Molecular Pressure in Tubes, by
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NASA TT P-8188

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Investigations Into Electrodeless Ring Current, by
G. Mierdel, 16 pp.

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pp 612-640. *CTA 9012966*

ACSIL Tr: 890

Sci - Chemistry
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Lattice Structure Transformations in Metallic
Solid Solutions, by G. Borelius, C. Johansson,
J. Linde, 35 pp.

GERMAN, per, Ann Physik, Vol LXXXVI, No 10,
15 Jun 1928, pp 291-318.

SLA Tr 57-346

Sci - Physics
Jul 57

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- Experimental Studies on the Theory of
W. Ritz on Transverse Vibration of
Square Plates, by A. Lemke.
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NASA ET F-11,576

Sci/Phys
Oct 68

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Becker, A.
ON THE PASSAGE OF SLOW CATHODE RAYS
THROUGH METAL 5, II. [1963] [13p] 4refs
Order from SLA \$1.60 63-20354

Trans. of Annalen der Physik (Germany) 1929, ser. 5,
v. 2, no. 3, p. 249-263.

DESCRIPTORS: *Thin films, *Metal films, *Nickel,
Permeability, *Electron beams, Velocity.

(Physics--Electronics, TT, v. 10, no. 11)

63-20354

I. Becker, A.

Office of Technical Services

Uncl # 71-17 (LA-tr-71-17) THEORY OF THE RECRYSTAL-
LIZATION OF PURE METALS. Dehlinger, Ulrich. Trans-
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Phys.; 2: 749-93(1929). 52p.

metallurgy; physics (solid-state); translations

MN-25 P RC

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Theory of Ionization in Columns, (Part) II., by
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GERMAN, per, Annalen der Physik, Vol I., 1929,
pp 977-1003.

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Sci - Phys

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The Superposition Law of a Finitely Deformed
Elastic Continuum Subject to Relaxation and
Its Significance for the Exact Derivation
of the Equations for Viscous Liquids in the
Euler Form, by H. Bensky, 11 pp.

GERMAN, per, Ann Physik, 1929, Vol II, No 6,
pp 617-630.

AMS-551290

Sci - Phys
OTS I, 12
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Term Splitting in Crystals, by H. Bethe, 77 pp.

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Scientific - Physics

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(FID 20135)

Kinetic Theory of Heat Conduction in Crystals, by
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Full translation.

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CIA/FID/U-5750

EEur - Germany

Sci - Physics, solid-state physics heat conduction

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Apr 54 CTS

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Study of the Influence of the Curvature of Solids
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Sci - Physics
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On the Charging of Small π Suspended Particles in a
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SIA Tr 1567

Sci - Nuclear physics
Apr 1957

Q 1457

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On the Ionization of Alkali Atoms by Slow Electrons,
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AEC UCRL-Trans-634(L)

Sci + Phys
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Electric Conductivity of Metallic Layers Formed
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SLA 59-20832

Sci
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Vol 3, No 1

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The Soundfield of the Circular Piston Membrans, by
H. Backhaus, 26 pp. 12

GERMAN, per, Ann. der Physik, Vol. V, Series 5, No 1,
1930, pp 1-35.

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S.L.A. No 152/1956

Scientific - Physics

Investigation Into the Physical Processes of the
So-called Electrical Gas Purification Process. Part I.
On the Maximum Charge of Suspended Particles, by
R. Ladsburg, 31 pp.

FRENCH, per, Ann. Phys., MM Vol V, No 4, 1930,
pp 863-897.

S.L.A. Tr 1933

Sci - Engineering
Apr 57

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Acoustic Radiation by Membranes, by H. Stenzel.
GERMAN, per, Annalen der Physik, Vol 7, No 5,
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Dept of Navy NRL 1095

Sci/Physics
Jun 67

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Crystal Structure, Electrical Resistance, Thermo-
electric Power, Heat Conductivity, Magnetic
Susceptibility, Hardness and "Tempering"
Phenomena of the AuPt System in Connection with
the Phase Diagram, 15 p., by C. H. Johansson,
J. O. Linde

GERMAN, par, Annalen der Physik, 1930, [5 ser.]
Vol V, No 6, pp 762-792.

SLA 59-20252

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Sci Mar 60 Vol 2, No 11

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by Flow Experiments, by P. Clausen, 68 pp.

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pp 489-520.

AEC Tr 36

Sci - Phys

Oct 59

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The Adsorption Time and Its Measurement by Flow
Experiments (Conclusion), by F. Clausen, 55 pp.

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AEC NF-90-698

Sci.
Aug. 1930

169, 886

The Quantized Loss of Velocity by Slow Electrons in
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No 1, 1930, pp 50-36. 9695777
Amer Meteorol Soc
T-G-203

Sci - NS
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Experiments (Conclusion, by P. Clausen, 71 pp.

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AEC NP-Tr-693

Sci
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Temperature Measurement With the Platinum Resistance
Thermometer Up to 1100 C, by H. Moser, 26 pp.

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SLA 57-2356

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*NASA TT F-12,810

Sci-Phys
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Spectroscopic Investigations on Nitric Oxide and
Nitrogen Peroxide, by ~~Joseph H. Kestel~~
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pp 95-184, 1930

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Scientific - Physics

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Acoustic Radiation by Membranes, by H. Stenzel,
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pp 947-982. P500182967
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Jul 67

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1931, 55, Vol 8, pp 475-499

ntc 70-25206

The Effect of Secondary Emission ^{on} Tube
Characteristics, by H. Bittmann, 45 pp.

GERMAN, per, Ann Physik, Vol VIII, No 6, 23 Mar
1931, pp 737-776.

S.L.A. Tr 57-305

Sci - Electricity
May 57

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Göppert-Mayer, Maria.
ELEMENTARY ACTIONS WITH TWO QUANTUM
LEAPS. Thesis Göttingen U. (Germany). [1963] 15p
(formulas figs omitted)
Order from SLA \$1.60

63-20480

Trans. of Ann[alen der] Physik (Germany) 1931,
ser. 5, v. 9, p. 273-294.

DESCRIPTORS: *Quantum mechanics, Atoms,
Excitation, Atomic energy levels, Light, Electrons,
Raman spectroscopy.

(Physics--Theoretical, TT, v. 10, no. 12)

63-20480

I. Göppert-Mayer, M.
II. Göttingen U. (West Germany)

Office of Technical Services

On the Conduction of Electricity and the Resistance of
Thin Metallic Layers. III. Functional Relations between
Specific Resistance and Thickness of Layer (Referring
Metal Sulphides or Low Temperature), by G. L. ...
50 pp.

GERMAN, per: Ann Physik, Vol. 2, Aug 1921, pp 789-800 .

SLA 50001 1546

Sci
Jul 50

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On the Electrical Conductivity and Structure of
Thin Metallic Layers. III. ~~Specific Resistance and Structure~~
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Hamburger, 30 pp.

GERMAN, per, Ann Physik, Vol X, No 5, 1931, pp
905-926.

SIA 58-358

Sci
Jul 59

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Propagation of Light in Inhomogeneous Media,
by K. W. Forsterling, 49 pp, UNCLASSIFIED

GERMAN, per, Annalen der Physik
No 1, 1931, pp 1-39. CIA D 146570

Air Res. and Dev Command

T-71 Q U T

Scientific - Physics

Jan 55 CTS

21,343

On Elementary Acts with Two Quantum Jumps, by
Maria Goppert-Mayer.

GERMAN, per, Annalen der Physik, Vol 4, No 3,
1931, pp 273-294.

Dept of Navy/ APL/JHU TG 230-T523

Sci-Physics

Nov 67

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Electron Diffraction and Bremsung, by A. Sommerfeld,
80 pp.
GERMAN, per, Annalen der Physik, 5 Series, Vol XI,
No 3, 1931, pp 257-330. 9696517
Amer Meteorol Soc
T-G-217

NASA TT F-8411
GUO

Sci - Physics
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Electric Properties of Dilute Alloys of Mixed Crystals.
Part I, Gold Alloys, by J. O.K. Linde, 18 pp.
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pp 52-70.
Navy 4032/NRL 1004

Sci-Phys
Feb 65

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Passage of Electricity Through Fine Metallic Wires,
by Werner Weiden, 29 pp.

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1931, pp 579-605. CIA 600898

Air Res & Devel Cmd
Amer Meteorol Soc
for Geophys, Res Dir
ASTIA

Sci - Electricity

Jul 57

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The Determination of the Elastic Modulus of
Bars with the Aid of Bending Oscillations,
by E. Goens.

GERMAN, per, Annalen der Physik, Vol 11, No 6,
1931, pp 649-678.

NLL Ref: 9091.9F (CA trans 207)

Sci-Phys
Oct 69

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1932, S5, Vol 12, No 5, pp 529-561 ntc 70-25205

(FDD 27141)

Concerning the Ξ Flow of Greatly Rarefied Gases Ξ
Through Tubes of Arbitrary Length, by P. Clausius,
39 pp.

GERMAN, per, Annalen der Physik, Vol XII, No 5, 1932,
pp 961-989.

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CIA/FDD U-8127

Sci - Physics, Aerodynamics

Apr 56

LA 6-1-10721

Researches on Ultra-short Wave Tubes, by H. Collen-
busch, 29 pp.

GERMAN, per, Ann Physik, Vol XIII, No 2, 8 Apr 1932,
pp 191-211.

JLA 57-2136

Sci
May 58

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The Continuous and Continuously-Discrete X-Ray
Spectrum (According to Kramers' Theory and According
to Wave Mechanics), by A. W. Maue, 35 pp.

GERMAN, per, Ann Physik, Vol XIII, No 5, 1932,
pp 161-190.

AEC Tr 3245

Sci - Physics
Jun 58

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Fredlund, Ernst.
THE MEASURING RANGE OF KNUDSEN'S MANOMETER. [1963] [14]p. 13 refs.
Order from SLA \$1.60

63-14688

Trans. of Annalen der Physik (Germany) 1932, ser. 5, v. 13, no. 7, p. 802-810.

DESCRIPTORS: *Vacuum apparatus, *Pressure gages, *Manometers, Gases, Pressure, Measurement.

Measurements with a Knudsen manometer of a new type have shown that it is possible to obtain a linear relation between the manometer deflection and the gas pressure, until the mean free path is only approximately 10-12 times greater than the plate distance. Depending on the type of gas, the manometer shows a deviation which is incompatible with the simple theory, although this deviation can be easily explained by means of the theory of the accommodation coefficient. (Author)

63-14688

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manometers
1. Fredlund, E.

(Engineering, TT, v. 10,
no. 5)

Office of Technical Services

Measurements by the Aid of Liquid Helium, Investigations of the Alloying Series Pb-Tl and Pb-Bi with Reference to Super-Conductivity, by W. Meissner and H. Franz, et al, 22 p.

GERMAN, per, Annalen der Physik, Vol XIII No 5 s, 1932, pp 967-984.

SLA TT 66-10713

Sci-Phys
Jul 66

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The Use of Acoustic Filters for Noise Reduction, by
K. Schuster, M. Kipnis, 4 pp.

Full translation.

GERMAN, no per, Annalen der Physik, Vol XIV,
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X CIS/FDD Z-39

Scientific - Physics, Acoustics

Electrical Properties of Dilute Alloys of Mixed Crystals.
Part II. Resistance of Silver Alloys, by J. O. Linde, 14 pp.
GERMAN, per, Annalen der Physik, Vol XIV, No 4,
1932, pp 353-366.
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Sci-Phys
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Angular Distribution in the Dispersion of Slow
Electrons in Gas Molecules, by Ven C. Ramsauer,
R. Kollath, 22 pp.

GERMAN, per, Annalen Der Physik, No 5, 1932,
pp 529-561.

ACSI E-8983
ID 2163980

Sci - Physics

Jun 61

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Line Emission and Absorption of Chromium Phosphors,
Part I, by Otto Deutschbein, 24 pp.

GERMAN, per, Annalen der Physik, Vol XIV, No 5,
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Hummer Coli Res Lang Ctr
H-T-G-63-17

Sci - Phys
Aug 63

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Line Emission and Absorption of Chromium Phosphore
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