

The Intensity Distribution of Spectral Lines in
the Fabry-Perot Interferometer, by K. Krebs and
A. Sauer,
GERMAN, per, Annalen der Physik, Ser 6, Vol XIII,
No 6/8, 1953, pp 359-368. 100007066
AFCRL T-6-245

Sci-Phys
Sept 66

309,080

Representation of Gas Currents By Means of
Electron Beams, by B. Schumacher, 31 pp. UNCLASSI-
FIED.

GERMAN, per, Ann Physik, Vol XIII, 1953,
pp 404-420.

19,540

AEC-Tr-1947

Scientific - Physics

Nov 54 CTS/DEX

Two-Ray Interference -- The Principles of
Interference and the Position of Interference
Phenomena, by G. Schulz. UNCLASSIFIED

GERMAN, per, Annal der Phys, Vol XIX, 1953,
pp 421-428.

DSIR/31876/CT

Sci - Phys
Oct 58

74, 437

CEA-tr-A-451 Uncl.

SOURCES D'IONS POUR DES RECHERCHES DE PHY-
SIQUE NUCLEAIRE. { Ion Sources for Research
in Nuclear Physics}. O. Reifenschweiler.
Translated into French from Ann. Physik (6),
14: 33-?(1954). 37p.

Particle Physics MC-34

C-34 NP NSA Dep.(mc)

Production of K α Rays From the Plasma of
Gas Discharges, by O. Reifenschweiler,
45 pp.

GERMAN, per, Annalen der Physik,
Vol XIV, No 6, 1954, pp 33-53.

SLA 60-18050

Sci
Vol IV, No 9
Mar 62

187, 222

Comparison of Graphite Arcs and
Ultraviolet Standards, by J. Euler.
GERMAN, per, Ann Physik, Vol XIV, 1954,
pp 145-173.
NASA TT F-10,265

U. S. GOVERNMENT USE ONLY
Sci-Phys
Dec 66

316,429

Interference Fringes of Equal Depth and
Measurement of Length With Light Waves, by
G. Schulz. UNCLASSIFIED

GERMAN, Ger, Ann Phys, Vol XIV, No 3/5,
1954, pp 177-187.

DBIR/32112/GT

Sci - Phys
Oct 58

74, 436

Eckart, F.
CONDUCTIVITY MEASUREMENTS ON SELENIUM.
[1963] 23p. 35 refs.
Order from SLA \$2.60

63-10912

Partial trans. (p. 233-241, 248-252) of Annalen der Physik (East Germany) 1954 [ser. 6] v. 14 [no. 6] p. 233-252.

DESCRIPTORS: *Selenium, *Electrical conductance, Temperature, Semiconductors, Impurities, Bromine, Solids, Liquids, Vacuum apparatus, Crystal structure.

The dependence of conductivity on temperature of solid and liquid selenium is essentially determined by the purity of the selenium and is substantially influenced by the introduction of oxygen in the case of highly purified selenium. An E-value of 2.2-2.9 ev. was measured from a very reproducible $\log \sigma - 1/T$ straight line (Physics--Solid State, TT, v. 10, no. 2) (over)

63-10912

I. Eckart, F.

Office of Technical Services

Electric "Microdischarges" in the Dynamical
Vacuum, by Robert Arnal, 49 pp.

GERMAN, per, Ann Phys, Vol X, No 12, 1955,
pp 830-873.

AEC Tr 2837

Sci - Physics

45, 113

Mar 57/CTS

STUDY OF ELECTRICAL DISCHARGE BY INDUCTION IN RARE
GASES, BY F. CABANNES.

FRENCH, PER, ANNALES DE PHYSIQUE, VOL X, 1955,
PP 1026-1078.

TIL T 5273

SCI - PHYSICS

NOV 62

216,705

Some Semiconductor Characteristics of Cuprous
Oxide, by C. Fritzsche.

GERMAN, per, Ann Physik, Vol XV, No 3, 4, 1955,
pp 178-181.

ASLTS GEN25

Sci
Aug 58

68, 256

Ionic Conduction and Disorder of Silver Chloride
With Additions, by Ines Ebert, J. Teltow,
24 pp.

GERMAN, per, Annalen Physik, Vol XV, No 6, 1955,
pp 265-278.

AEC Tr 3554

Sci - Phys
Mar 59

82,905

CEA-tr-A-996 Uncl.

UNE THEORIE DE L'APPAREILLAGE D'OBSERVATION DE
RESONANCES MAGNETIQUES NUCLEAIRES. (A Theory
of Equipment for Observation of Nuclear Mag-
netic Resonances). H. Pfeifer. Translated
into French by P. Monnard from Ann. Physik (6),
15: 311-24(1955). 30p. *9092324*

Instrumentation; Physics; Translations MC-34

C-34 NP NSA Dep.(mc); \$2.00(fs), \$1.10(mf)
JCL

N-4

Modification of the Structure of Evaporated
Ge-Deposits in the Electron Microscope, by
E. W. Fisher and H. Richter.

GERMAN, per, Ann Phys, Vol XVI, No 5-8, 1955,
pp 193-209.

ASLIB-GB4

Sci

Aug 58

72,304

Measurements Concerning the Third-order Homogeneous
Thermoelectric Effect (1st Benedicks Effect). by
G. Kocher.

GERMAN, per, Annalen der Physik, Vol XVI, No 5/8,
1955, pp 210-226.

CSIRO Tr 3978

Oct. 62

The Influence of the Glass Substances, by D.A.G.
Bruggeman.

GERMAN, per, Ann Physik, Vol LKVIII, No 4, 1955,
pp 131-136.

ATS 326-GJ

Sci
Nov 59

100,429

A Modification of the Wiezsacker Correction
in the Statistical Atom, by P. Gombas.
GERMAN, per, Annalen der Physik, Vol 18,
No 1-2, 1956, pp 1-16.
*NASA TT F-11,296

GOVERNMENT USE ONLY
Sci-Phys
Jan 68

A New Method of Measuring the Complex
Dielectric Constant in Centimeter Waves.
Application to the Study of the
Phenomenon of the Adsorption of Water,
by J. LeBot.
FRENCH, per, Annales de Physique,
Vol 1, 1956, pp 463-492.
NTC 72-10159-20C

Apr 72

Mechanical Distortions Due to Electric Discharges,
by O. Bethge, 31 pp.

GERMAN, per, Ann Physik, Jun 1956.

SLA Tr 57-1415

Sci - Electricity

Oct 57

54, 510

Precision of bubble-pressure method for the determination of the surface tension of liquids, by K.R. Cuny. GERMAN, per, Annalen der Physik, Vol 17, 1956, pp 57-77 NASA TT F 13,937 29 pp

sept 71

On the Photo-Electric Properties of Cadmium
Sulphide, by G. Wellerick,

GERMAN, ger, Ann Phys, ⁷¹⁰Vol I, 1958, pp 623-679.

INSDOC-T1888

Sci
Apr 59

84, 440

Semiconductor Properties of ZnS_2 , by C. Fritzsche,
11 pp.

RETMAN, DAN, American Jour Physik, 6th Series,
Vol XVII, No 2/3, 1956, pp 94-101.

Dept of Commerce
Patent Office
Sci Lib (gift)

Sci - Electronics
Sci 99

92,137

Partition Function and Effective Ionization
Potential of an Atom in the Interior of a Plasma,
by G. Ecker, W. Weizel, 19 pp.

GERMAN, 8-times-year, Ann Physik, Vol XVII,
1956, pp 126-140.

AEC Tr 2841

Sci = Physics
Apr 57 CTS/dex

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A Modification of the Weissacker Correction in
the Statistical Atom, by P. Gombas,
GERMAN, per, Annalen der Physik, Vol 18, No 1-2,
1956, pp 1-16.
*NASA TT-F 11,296

Sci-Euc Science
Oct 67

The Axial Temperature Distribution at the
Interior of the Anode of a Carbon Arc and the
Thermal Conductivity of Graphite at High
Temperatures, by J. Euler.
GERMAN, per, Ann Physik, Vol XVIII, 1956,
pp 345-369.
NASA TT F-10,266

U. S. GOVERNMENT USE ONLY
Sz -Phys
Dec 66

316,426

Construction of an Accelerator Tube for Ions at
700 KV. Development of Ion Sources With Oscil-
lating Electrons, by J. Sommeria-Klein, 73 pp.

GERMAN, per, Ann Phys, Vol I, 1956, pp 344-394.

AEC UCRL-Trans-592(L)

Sci - Phys
19 Jan 61

137,339

Investigations On the Internal Demagnetization
Factor by G. Vogler.

GERMAN, per, Annalen Der Physik Ser. 6, Vol **XIX**, 1956,
pp 229-232.

CSIRO

Oct. 62

Diffusion of Radioactive Ions in Crystals,
by Marius Chemla, 48 pp.
FRENCH, per, Annales de Physique, Vol I, No 13,
1956, pp 959-999. 9226033
AEC-UCRL-Tr-1038 (L)

Sci-Phys
Dec 64

270,153

A New Method of Measuring the Complex Dielectric
Constant in Centimeter Waves, by Jean Lebot

30 pp. *2 D 4712*

per
FRENCH, *may* ~~the~~, Annales de Physique, June 1956, France,
pp 463-492.

ACSI H-6052

Sci - Phys

Mar 60

110,499

Entrainment of Impurities During Crystallisation,
by Jules Pauly, 34 pp.

FRENCH, per, Ann Phys. Vol I, 1956, pp 1003-1039.

AEC Tr 2871

Sci - Chem

47, 415

May 57

Influence of the Initial Copper Material on the
Characteristics of Copper Oxide Rectifiers, b.
F. Eckart, C. Fritzsche, 12 pp.

GERMAN, per, Ann Physik Ser, Vol VI, No 19, 1956,
pp 19-30.

Assoc Tech Serv 65J160

Jul 58

69, 959

Huguenin, Eugene-Louis.

THE PHOTOEMISSION ELECTRON MICROSCOPE.

Doctoral thesis Paris U., 19 June 56. [1960] 50p.

81 refs.

Order from RIS \$45.00

RIS E-655

Trans. of Annales de Physique (France) 1957 [ser. 13, v. 2] p. 214-266.

151883

(Physics--Optics, TT, v. 5, no. 9)

61-12041

1. Electron microscopes--
Operation
2. Photoemission--Analysis
 - I. Huguenin, E. -L.
 - II. RIS E-655
- III. Research Information
Service, New York
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Office of Technical Services

Diffusion of Sb in Ag, by W. Weller 3pp
GERMAN, per, Ann. Physik, 20, 1957
pp. 42-44.

*CFSTI TT 70-58118

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Sci/chem
Apr 70

AEC

SCL-T-710234 Uncl.

BACKSCATTER OF ELECTRONS IN THE 10 TO 100 keV
ENERGY REGION. Kanter, Helmut. Translated by
B. Thayne (Sandia Labs., Livermore, Calif.), from Ann.
Phys. (Leipzig); (6), 20: 144-66(1957). 34p.

physics; translations

ND-34 P RC

Unlimited

Backscattering of Electrons in the Energy Range
From 10-100 keV, by Helmut Kanter.

GERMAN, per, Annalen der Physik, Vol 20, 1957,
pp 144-166.

*AFCRL

Sci/Phys
Feb 70

Effect of Convection on an Electric Arc,
by H. Rother.
GERMAN, per, Ann Phys, Vol XX, 1957,
pp 230-237.
NASA TT F-10,756

GOVERNMENT USE ONLY
Sci-Phys
Mar 67

320,839

APPROVED FOR RELEASE: 2005/08/09 CIA-RDP91-00403R000200730048-3

Breakdown Voltage and Ignition Lag in Nitrogen at
Higher Pressures, by G. 1960, *ibid.*

GERMAN, G., *Annalen der Physik*, Vol. XIA, 1957,
pp 283-297.

NR00 NT-828

Sci - Electronics
Jan 61

136,430

APPROVED FOR RELEASE: 2005/08/09 CIA-RDP91-00403R000200730048-3

Harrand, Monique.
RAMAN SPECTRA OF VITREOUS SUBSTANCES AT
HIGH TEMPERATURE (Spectres Raman des Corps
Vitreux à Haute Température). [1962] [25]p. (foreign
text included) 11 refs.
Order from SLA \$2.60

62-18537

Trans. of Ann[ales de] Phys[ique] (France) 1957,
ser. 13, v. 2, p. 309-317.

DESCRIPTORS: Ceramic materials, *Glass, *Silicon
compounds, *Dioxides, *Raman spectroscopy, High
temperature research.

Intensity measurements done on Raman spectra of
vitreous silica at 26° C and at 725° C show an increase
of the intensity with increase of the temperature just as
this is expected according to Placzek's theory. - Both
in the vitreous and liquid states the Raman spectrum of
(Materials--Ceramics, TT, v. 9, no. 8) (over)

62-18537

I. Harrand, M.

Office of Technical Services

Schwartz, Wolfgang.
ELECTRON-MICROPIC INVESTIGATION OF MAG-
NETIC POWDER SAMPLES. [1962] 10p.
Order from K-H \$12.50 K-H 6738

Trans. of Annalen der Physik (East Germany) 1957
[ser. 6] v. 19, p. 322-328.

DESCRIPTORS: *Electron microscopy, *Magnetic
materials, *Powders, Powder metallurgy.

(Physics--Magnetism, TT. v. 8, no. 11)

62-22732

- I. Schwartz, W.
- II. K-H-6738
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

On the Problem of Approaching an Ideal Isotope-Separation Cascade by Means of a Sepwise Arranged Cascade in the Case Where Material Losses Are Taken Into Account, by Heinz Barwich, 14 pp.

GERMAN, per, Annalen Der Physik, Vol XX, No 1-6,
15 Jul 1957

ALC/1000-1/00-79
US OPRS/DC-L-8

Sci - Chem

58,881

Feb 58

Schmutzer, Ernest.
MINKOWSKI ELECTRODYNAMICS AS RESULT OF
AN INVESTIGATION OF FIELD THEORY. [1960]
7p. 10 refs.

Order from OTS or SLA \$1.10 60-17368

Trans. of Annalen der Physik (East Germany) 1957,
ser. 6, v. 20, p. 349-354.

DESCRIPTORS: *Electromagnetic fields, Electricity,
Dynamics, *Tensor analysis, Energy, Mass energy
relation, Density, Spheres, Electric fields,
Transformations (Mathematics), Relativity theory.

A general investigation is made of the coupling of the
electromagnetic and matter fields as an analog of
electrodynamics in media. It is found that only a
separation of the two fields in accordance with
Minkowski's electrodynamics is meaningful, a mini-
(Physics--Theoretical, TT, v. 8, no. 2) (over)

60-17368

I. Schmutzer, E.

5-18-62

Office of Technical Services

Pachner, Jaroslav.
ON THE COMPATIBILITY OF THE FIELD EQUATIONS, CONSERVATION LAWS, AND EQUATIONS OF MOTION IN THE UNITARY FIELD THEORY [1960] 14p. 38 refs.
Order from OTS or SLA \$1.60 60-17369

Trans. of Annalen der Physik (East Germany)
1957, ser. 6, v. 20, p. 368-380.

DESCRIPTORS: *Gravity, *Electricity, *Electromagnetic fields, Mass energy relation, Motion, Equations, *Relativity theory, Tensor analysis, Partial differential equations, Differential equations, Differential geometry, Particles.

The problem of choosing the Hamiltonian for the unitary field theory of gravitation and electricity is discussed. Then the compatibility of the field equations is demonstrated. There are 18 equations for 16 (Physics--Theoretical, TT, v. 8, no. 2) (over)

60-17369

1. Pachner, J.

5-18-62

Office of Technical Services

THE TEMPERATURE DEPENDENCE OF THE
PHOTOEMISSION OF THE C-S PHOTOCATHODE
IN THE TEMPERATURE REGION OF -170° UP
TO $+20^{\circ}$ C, BY ZS. NARCY, 5 PP.

GERMAN, PER, ANNALEN DER PHYSIK, VOL XX,
1957, PP 384-389. 9082392

AEC UCRL TR-698(L)

SCI - PHYS

NOV 61

173,198

On the Magnetic Aftereffect in Carbonyl
Iron, by Gustav Richter, 39 pp.

GERMAN, per, Annalen der Physik, Vol XXIX,
No 5, 1957, pp 604-635. 9769044

AEC SCL-T-436

Sci - Phys
Dec 62

217,464

Investigation on the Existence Ranges of the
Electrodeless Ring Discharge, by H. J. Strauss,
22 pp.

GERMAN, per, Ann Physik, Series 7, Vol. I, No 4-5,
pp 281-295. 1958, 108-1354

AEC SCL-T-381

Sci - Phys
Feb 62

182,530

R-3875-D

Artificially-Created Successive Layers in Argon
Low-Pressure Discharge, by Karl Wojaczek.

GERMANS, per, Annalen der Physik, Vol II, 1958,
pp 57-80.

*JPR S/Air Force

Sci
Feb 64

Electron Temperature and Electron Noise in the
High-Frequency Torch Form of Discharge, by Ludwig
Mollo, 31 pp. UNCL

GERMAN, per, Annalen der Physik, Vol II, No 3/4, 1958,
pp 97-129. 649574

AF (no number)

Sci - Phys
Jan 60

On the Evaluation of Conductivity Glow Curves, by
K. W. Boer, S. Oberlander, J. Voigt, 45 pp.

GERMAN, per, Ann Physik, Vol VII, No 2, 1958,
pp 130-145. 9099887

ARC EP Tr-840

Sci p Phys
May 62

196,807

The Magnetic Properties of Iron, by P. Pauthenet,
44 pp UNCLASSIFIED

FRENCH, per, Annales de Physique, No 5-6, May-Jun
1958.

ACSI H-4789
ID 2149816

Sci - Min/Met, Phys
Oct 60

127,950

Magnetic Investigations on Mixed Crystals of Pd
with Transition Elements, by D. Gerstenberg.
GERMAN, per, Annalen der Physik, Vol VII, No 5, 6,
1958, pp 236-262. 9231927
AEC-ANL-Tr-251

Sci - Phys
Feb 66

295,484

Measurements of Secondary Electron Emission
in Selenium, by G. Oertel.
GERMAN, per, Ann. Physik, Vol 1, No 6-8,
1958, pp 305-18.
ATS 1214-GJ

Sci - Phys
Aug. 67

338,286

R-3876-D

Certain Findings on Successive Layers in Neon
Glow Discharges, by Herbert Achterberg, and
Johannes Michel.

GERMAN, per, Annalen der Physik, Vol II, 1959,
pp 365-379.

*JPRS/Air Force

Sci
Feb 64

R-3874-D

Simplified Diffusion Theory of Successive Layers,
by Karl Wojaczek.

GERMAN, per, Annalen der Physik, Vol III, 1959,
pp 37-47.

*JPRS/Air Force

Sci
Feb 64

Investigation of the Total Reflection of
Soft X-Rays, by R. Groth, 7 pp.

GERMAN, per, Annalen de Physik, Series 7,
Vol II, No 7/8, 1959, pp 380-386.

MDF G-176
9092780

171,521

Sci
Oct 61

Oscillographic Measurements of High-Current Sparks,
by Berthold Kuhn, 17 pp.

GERMAN, per Annalen der Physik, Vol 3, No 5-6, 1959,
pp 241-259.

JPRS: R-521-D

Sci - Geophys

19 Sep 60

W. S. A.

A Nuclear Magnetic Resonance "Maser," by H.
Benoit.

GERMAN, per, Annalen der Physik, Vol IV, Ser 3,
1959, pp 11, 12.

*TIL T * 5170

Sci - Nuc Phys

Jan 61

Eggert, J.
THE SPECTRAL SENSITIVITY OF PHOTOGRAPHIC
EMULSIONS. [1963] 5p.
Order from ATS \$9. 25 ATS-73Q67G

Trans. of Ann[alen der] Physik (East Germany) 1959,
ser. 7, v. 4 [no. 1/5] p. 140-144.

DESCRIPTORS: Spectra (Visible and Ultraviolet),
Sensitivity, *Photographic emulsions.

(Materials--Photographic, TT, v. 10, no. 1)

63-17115

- I. Eggert, J.
- II. ATS-73Q67G
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Magnetic Investigations of ~~the~~ Gold-Based Solid
Solutions With Titanium and Vanadium, by E.
Vogt, D. Gerstenberg, 21 pp.

GERMAN, per, Annalen der Physik, Vol ~~XXXXXX~~ IV,
No 7, 1959, pp 145-153.

AEC NP-Tr-471

Sci - Phys
26 Oct 60

130,867

~~XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX~~
R-3950-D

~~XXXXXXXX~~ Theory of Diffusion Waves(Running Layers in
Low Pressure Discharge), by H. Rother.
GERMAN, per, Annalen der Physik, Vol IV, 1959, pp 373-387.

*JPRS/Air Force

Sci-~~Phys~~Phys
March 64

Greiner, Ch.
INVESTIGATIONS OF THE REVERSAL OF THE
SPINORS IN CHARGED 180° BLOCH WALLS.
[1961] 20p. 4 refs.
Order from SLA \$1.60

61-20537

Trans. of Annalen der Physik (East Germany) 1959,
ser. 7, v. 5, no. 1/2, p. 57-69.

DESCRIPTORS: Nickel alloys, Iron alloys, Alloys,
*Ferromagnetic materials, Magnetic materials,
Stresses, Electrostatics, Energy, Thickness,
Magnetic properties.

Based on experimental results, an investigation of
the reversal of magnetization vectors is made for a
plate-shaped pattern of charged 180° Bloch walls on
the assumption of uniaxial anisotropy. The charge
distribution in the Bloch wall is indicated for three
characteristic paths of the reversal, and thick-
(Physics--Magnetism, TT, v. 8, no. 2) (over)

61-20537

1. Title: Bloch walls
2. Title: Spinors
1. Greiner, Ch.

Office of Technical Services

Debnier, A. and Schulz, F.
THE CHANGE IN CONDUCTIVITY OF THIN
CUPROUS OXIDE FILMS UNDER ELECTROSTATIC
CHARGE. [1961] 15p.
Order from ATS \$19.95

ATS-43N48G

Trans. of Ann[alen der] Physik (East Germany) 1960,
ser. 7, v. 5, no. 3/4, p. 113-128.

ATS-903-55

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

61-12972

I. Copper oxide films---Conductivity

I. Debnier, A.

II. Schulz, F.

III. ATS-43N48G

IV. Associated Technical Services, Inc., East Orange, N. J.

105881

Office of Technical Services

R-3950-D

Theory of Diffusion Waves (Amplification Conditions in
Low Pressure Discharge), by H. Rother.

GERMAN, per, Annalen der Physik, Vol V, 1960, pp 252-267.

*JPRS/Air Force

Sci-~~ENCE~~Phys

March 64

Badarau, E[uyien] Popescu, I[onitzu] and Iova, I[ancu].

CONTRIBUTIONS TO AN EXPLANATION OF THE MECHANISM OF THE DOUBLE CATHODE EFFECT
Paper presented at Conference of the German Physical Society, Leipzig, 17 Apr 59. [1961] 35p. 41 refs.
Order from SLA ml\$3.00, ph\$6.30 61-10790

Trans. of Annalen der Physik (East Germany) 1960, 7 Folge, v. 5, no. 5/6, p. 308-326.

Descriptions are given of theoretical and experimental results relating to the phenomena which take place at double and single cathodes during glow discharges in argon. The importance of the resonance charge transfer process in the kinetics of the positive ions in specific gases and, in particular, in the theory of the cathode fall is stressed. It is also demonstrated, under conditions of anomalous discharges at any rate, that the majority of excitations and ionizations takes place in front of the cathode in the negative glow, this formation constituting a practically
(Physics--Electronics, TT, v. 5, no. 9) (over)

61-10790

1. Cathodes--Theory
2. Argon--Spectra
3. Glow discharges--Theory
- I. Badarau, E.
- II. Popescu, I.
- III. Iova, I.
- IV. Title: Conference ...

151860

Office of Technical Services

An Experimental Study of the Piezoelectric-
Constant Variations Related to Phase Change,
by Serge Le Montagner, 46 pp.
FRENCH, per, Annales de Physique, Vol V,
1960, pp 469-508. 923414
AEC-PC T-55-707

Sci-Phys
Apr 65

010,137

To the Study of Light Sources in the Far Ultraviolet
and Application to Spectrochemical Analysis, by
G. Balloffet
FRENCH, per, Annales de Physique, Series 13,
Vol 5, 1960, pp 1243-1259
NTC 71-15493-20F

feb 72

(NY-5729/1)

~~XXX~~ Spontaneous and Forced Growth Direction in,
Growing of Ferrite Crystals, by Ulrich Roesler¹,
3 pp.

GERMAN, per, Annalen der ~~AM~~ Physik, Vol VI,
No 5-6, 1960, pp 236-240.

JPRS 9690

Sci - Phys
Aug 61

163, 111

(UNCLASSIFIED)

On the Theory of Nuclear Reaction, I.
The Nuclear Force Interaction. German
Experiments. by W. Brunner. Harry Paul.
25 pp.

GERMAN, Ger. Annalen der Physik, vol. 17.
No 5/6, Sep 1960, pp 267-287.

JPRS 9691

Sci - Nuc Phys

17 9, 1960

Jan 62

(NY-5729/3)

Experimental Determination of the Components of
Permeability Tensor and the Spectroscopic
Splitting Factor of Mg - Mn Ferrites in the
Microwave Area. I, by K. H. Gothe, 18 pp.

HE GERMANY, per, Annalen der Physik, Vol VI,
~~NOVEMBER~~ No V/6, Sep 1960, pp ~~298-306~~ 298-306.

5

JPRS 9692

Sci - Phys
Aug 61

163,116

(NY-5729)

The General Form of the Law Governing the
Propagation of Shock Waves of the Gravitational
Field, by H. Treder, 6 pp.

GERMAN, per, Annalen der Physik, Vol VI,
No 5/6, Sep 1960, pp 307-310.

JPRS 7911

Sci - Phys

142,457

Mar 61

The Temperature Dependence of the Short-Wave-
Length Part of the Absorption of MgO in the
Infrared, by R. Groth, 22 pp.

GERMAN, per, Annalen der Physik, Vol VI, No 7,
1960, pp 328-344. 9207250

AEC/UNRA Ex-920(L)

Sci - Phys

May 63

232,209

Döring, W. and Simon, G.
THE DIRECTIONAL DEPENDENCE OF MAGNETO-
STRICTION (Die Richtungsabhängigkeit der Magneto-
striktion). [1963] [32]p. (foreign text included) 8 refs.
Order from SLA \$3.60 63-14927

Trans. of Ann[alen der] Phys[ik] (East Germany)
1960 [ser. 7] v. 5, no. 7/8, p. 373-387.

DESCRIPTORS: *Magnetostriction, *Single crystals,
Crystal lattices, Symmetry (Crystallography),
Functions, Tensor analysis, Magnetic properties.

In a single crystal the magnetostriction can be ex-
pressed by means of a second order tensor, the com-
ponents of which depend on the magnetization direc-
tion. With the aid of group-theory method, this
dependence is expressed for all crystals in such a
form that the symmetry of the crystals will suffice for
(Physics--Magnetism, TT, v. 10, no. 4) (over)

63-14927

I. Döring, W.
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