

On the Calculation of the Elasticity Moduli of Polycrystalline Aggregates With Texture, by G. Kneer.

20 pp.

FRENCH, per, Phys. Status Solidi, Vol 9, 1965, pp 825-838.

NASA TT F 13530

GOVERNMENT AND GOVERNMENT CONTRACTORS USE ONLY. NO NTIS

NTC 71-16884-20L

aug 71

The Magnetic Relaxation of Interstitial Ni Atoms
in Electron-Irradiated Ni, by H. Kronuller.
GERMAN, per. Phys Stat Sol. No 9, 1965, pp 863-
872.

*NBS TT 70-57397

Sci-Mat
Aug 70

Secondary Diffusion Effect on Mn-Zn-Ferrites
Due to Momentary Change of the Internal Stress
Conditions, by D. Schafer.
GERMAN, per, Phys. Stat. Sol., 10, 1965,
pp K25-30.
*NBS TF 70-57333

Sci-Mat
Aug 70

The Scattering Mechanism of Current Carriers in
Tellurium Alloyed Gallium Phosphide, by D. N.
Nasledov, V. V. Negreskul, 10 pp.
GERMAN. per. Physica Status Solidi, Vol 10, No 1,
1965, pp 37-43. FI00371257
FTD-RT-66-460

Sci-Physics
Jan 68

348,604

Spontaneous Recombination of Frenkel Pairs, by
K. Bettmann, 17 pp.
GERMAN, per, Phys. Status Solidi, Vol 10, 1965,
pp 269-282.
AEC ANL-tr-240

Sci/Physics
Apr 67

320,704

Radiation Saturation and Defect Structure in
Solids, by M. Balarin, O. Hauser, 7 pp.
GERMAN, per, Physica Status Solidi, Vol 10,
1965, pp 475-480. P 911146367
AEC ANL Tr-422

324,410

Sci - Nuclear Science
May 67

Magnetic Resonance (ESR- and ENDOR-
spectroscopy) of Color Centers in Alkali
Halide Crystals, by H. Seidel and H. C. Wolf,
ZfH 27, per, Physica Status Solidi, Vol XI, No 1
1965, pp 3-33, 48-66.

Dept of Navy/NRL Tr-1081

CSIRO/No. 8024 pp 3-66

NASA TT F 10,032

Sci-Phys
Nov 66

313,937

Paramagnetic Resonance (ESR and Endor Spectroscopy) of Colour Centres in Alkali Halide Crystals, by H. Sidel, H. C. Wolf.
GERMAN, per, Physica Status Solidi, Vol 11, No 1, 1965, pp 33-48. 9232868
AEC NP-tr-1379

Sci/Physics
Jun 66

301,139

Temperature-and Velocity-Change Experiments
with Alpha-Copper Alloys, by D. Munz. 9 p.
GERMAN, per, Physica Status Solidi, Vol 11,
No 1, 1965, pp K73-K6.
SLA TT-66-10426

Sci-Phys
Jul 66

306,179

ACSI

#91 CN-501

R-9669-D

8 Aug 68

Zur Bestimmung des spezifischen Widerstandes von
Germanium-Epitaxialschichten nach dem Durchburchsver-
fahren

By: H. STRELLER, et al

From: phys. stat. sol. 11 1965: 121-123 (3 pp)

VEB Halbleiterwerk Frankfurt/Oder, Werkteil Stahnsdorf

German - est for wds:

Please translate and type 1 copy only.

Thermally Activated Processes at the
Deformation of Neutron-Irradiated Cu-Single
Crystals, I. Determination of the
Activation Energy, by J. Diehl,
G. P. Seidel, et al. 15 pp.
GERMAN, FOR, Phys Stat Sol, Vol XI,
1965, pp 339-354. 9231980
AEC ANL-Trans 254

GB 48/1/2/2284

Sci-Phys
Feb 66

296,078

Radiation Defects in Semiconductors, by
V. S. Vavilov. 73 pp.
GREN, for, Physica Status Solidi, Vol 11, No2,
1965, pp 447-497.
AIR/FTD/MT-23-55-68

sci/physics
mar 69

377,841

Volume Diffusion in Polycrystalline Sb, by
A. Hassner.
GERMAN, per. Phys Stat Sol. No 11, 1965, pp 575-
583.
*NBS TT 70-57419

Sci-Phys
Aug 70

Reflection of Very Slow Electrons by Metal
Surfaces, by R. Niedermayer, J. Holzl.
GERMAN, per, Physica Status Solidi, Vol 11,
1965, pp 651-656. P100275867
AFCRL T-G-284

Sci-Electr
Oct 67

342, 556

Energy Change of Conduction Electrons
by Point Defects in Metals,
by E. Mann.

GERMAN, per, Physica Status Solidi,
Vol 11, 1965, pp 753-766

NTC 72-11726-20L

NASA TT F-11,912

June 72

Propagation of Low-Frequency Helicon Waves in
Strongly Doped Semi-Conductors, by J. P. Saint-Martin
EUROPEAN, per, Physica Status Solidi, Vol 11,
1965, pp 789-794
NTC 71-15492-20L

feb 72

Interpretation of Electron-Microscopic
Contrast Phenomena in Vacancy Agglomerates
of Neutron-Irradiated Copper, by H. Fuhrle.
GMS:AN, per, Phys Stat Sol, Vol XI, 1965,
pp 819-829. 9252017
AEC-ANL-Tr-259

Sci - Elect, Math
Mar 66

296,517

Study of Some Thermal Properties of the
Compounds HgSe, HgTe and ZnTe, by
F. Kelemen.

FRENCH, per, Physica Status Solidi,
Vol 11, 1965, pp 865-872
NTC 72-12356-20L

July 72

Theory of Interaction of Dislocations With
Coherent Ordered Zones, by H. Gleiter, E.
Hornbogen.

GERMAN, per, Physica Status Solidi, Vol 12,
No 1, 1965, pp 235-250.

*ABC 2557

CRL/T. 3947x

Sci - Nuclear Science
May 67

Observation of Interaction of Dislocations
With Coherent Ordered Zones - II, by H.
Gleiter, E. Hornbogen.
GERMAN, per, Physica Status Solidi, Vol 12,
No 1, 1965, pp 251-264.
Houldsworth School of Applied Science
Leeds University, Leeds 2, England

326,458

Sci - Physics
May 67

On the Mechanism of Dislocation Etching I.
Formation of Two-Dimensional Hole Nuclei at the
Ends of Dislocation Lines, by W. Schaarwachter.
GERMAN, per, Phys. Status Solidi, Vol 12, 1965,
pp 375-382. 9233235
AEC ORNL-tr-1154

Sci/Physics
Aug 66

306,290

Thermally Activated Processes in the Defor-
mation of Neutron-Irradiated Copper Single
Crystals II. Dislocation Motion in the
Presence of an Obstacle Spectra and Eval-
uation of Measurements, by J. Hohl.

G. P. Seidel, et al.

GERMANY, por. Physica Status Solidi, Vol 12,
1965, pp 405-419. 9232369

AEC ANL-Tr-274

Sci/Physics
May 66

500,427

Organic Semiconductors, by C. Hamann.
GERMAN, per, Phys Status Solidi,
Vol XII, 1965, pp 483-532.
NASA TT F-10,227

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

312,249

ACSI #127 CN496

R-9668-D

8 Aug 68

Optische Untersuchungen zur Wasserdampfsorption in
Aufdampfschichten (insbesondere in MgF_2 -Schichten)^{B)}

By: H. KOCH

From: Phys. stat. sol. 12

1965:532-543

(12 pp)

German - est for wds:

Please translate and type 1 copy only.

The Diffusion and the Isotope Effect Fro
 ^{22}Na and ^{24}Na in AgCl, by P. Szeptitz,
GERMAN, per, Phys. Satus Solidi, Vol XII,
1965, pp 555-567.
AEC ANL-Trans-295

Sci-Phys
May 67

326,215

The Mechanical Relaxation of Hantel Interstitial
Atoms in Nickel, by A. Seeger, 28 pp.
GERMAN, per, Phys Stat Sol No 9, 1965, pp 583-
*NAVY/NWL-MALB-Tr-5-72

Nov 71

Geometriefaktoren für Elektrische Leitfähigkeit
und Feldstärke in Symmetrisch Kontaktierten
Quadern, by S. Oberlander.
GERMAN, per, Phys Status xSolidi, No 12,
1965, pp 569-587.
*CFSTI TT 67-59053

Jun 67

Ionic Conductivity of Pure and Doped AgBr and
AgCl Single Crystals, by P. Teller.
GERMAN, por. Physica Status Solidi, Vol 12, 1965,
pp 775-794. P911077666
AEC NP-tr-1405

Sci/Physics
Nov 66

311,590

On the Mechanism of Dislocation Etching II.
Formation Conditions for Etch Pits, by
W. Scharwacher.
GERMAN, per, Phys. Status Solidi, Vol 12, 1965,
pp 865-876. 9233236
AEC ORNL-tr-1155

Sci/Physics
Aug 66

306,289
~~306,286~~

Field Emission From Tann Surface.
Conditions in a One-Dimensional Model,
by R. Fischer.
GERMAN, per, Physica Status Solidi,
Vol 13, 1966, pp R5-R8.
NTC 72-11110-295

May 72

Green's Function Method in the Lattice
Dynamics of a Defect Crystal,
by O. Litzman.

GERMAN, per, Physica Status Solidi,
Vol 13, 1966, pp 71-84
NTC 72-11684-20B

NASA TTF-11, S11

June 72

The Transport Mechanism of Cu Ions in AgBr,
by P. Suptits.

GERMAN, per, Phys. Stat. Sol., 13, 1966,
pp K135-136.

*NBS TT 70-57370

Sci-Mat
Aug 70

CSI

175 CN-504

R-9072-D

8 Aug 68

Lebensdauer und Driftbeweglichkeit von Defektelektronen
in AgBr-Kristallen bei Raumtemperatur

By: U. HEUKROTH & P. SUPTITZ

From: Phys. stat. sol. 13, (1966): 205-231 (7 pp)

German - est for wds:

Please translate and type 1 copy only.

Scattering of Conduction Electrons
Due to Point Imperfections in
Metals, by E. Mann.
GERMAN, per, Physica Status Solidi,
Vol 13, 1966, pp 293-306
NTC 72-11927-20L

NASA TTF-11,610 Bu0

June 72

A Possible Interpretation of Stage III Recover in
Ni, by P. Perretto. 6 pp.
FRENCH, par, Phys Stat Sol, Vol 13, 1966,
pp 325-330.
*NBS TT 70-57680

Sci-Chem
Jul 70

Spin-Lattice Relaxation and the Diffusion of
Point Defects in AgBr, by J. Kluge.
GERMAN, per, Phys. Stat. Sol., 13, 1966,
pp 401-411.
*NBS TT 70-57371

Sci-Mat
Aug 70

ACSI

#74 CN-505

R-9673-D

8 Aug 68

Photoelektrische Eigenschaften von Lithiumantimonid

By: R. GOERCIET

From: Phys. stat. sol. 13, 1966: 429-438

(18 pp)

German - est for wds:

Please translate and type 1 copy only.

Investigation of the Interaction of Magnetic
Flux Lines With Dislocations and Surfaces in
Niobium (I), by E. Neubach, 21 pp.
GERMAN, par, Phys Status Solidi, Vol 13, 1966,
pp 543-548. F911191667
AEC ORNL Tr-1600

327,906

Sci - Chemistry
Jun 67

ACSI #118 CN-492-68

R-9665-D
8 aug. 68

Messungen der ionenausgelosten Sekundarelektronenemission
und der Ionenreflexion an kugelformigen Einkristallen

By: H. ZSCHEILE

From: Institut fur Experimentalphysik der Technischen
Universitat Dresden : 15-19

Phys. stat. sol. 14, K15 (1966)

(7 pp)

German - est for wds:

Please translate and type 1 copy.

Theory of Electromagnetic Waves in Metals and
Their Interaction with Ultrasonic Waves, by
J. Mertsching.

GERMAN, per, Phys Status Solidi, Vol 14, No 1,
1966, pp 3-61.

NASA TT F-12,114

Sci-Phys
Sept 69

391,565

Surface Diffusion on Si, by H. Neumann.
GERMAN, par. Phys. Stat. Sol., 14, 1966,
pp K63-64.
*NBS TT 70-57376

Sci-Phys
Aug 70

A Medium in the Electromagnetic Field
of a Laser Wave as an Optical Lattice,
by K. Enderlein.

GERMANY, per, Physica Status Solidi,

Vol XIV, No 1, 1966, pp 97-108.

Dept of Navy 4827/APL/JHD T-1900

Sci - Phys
Oct 66

312,850

Propagation of Helicon Waves in InSb and InAs,
by H. Fliether, K. Kliefoth. 10 pp.
GERMAN, per, Physica Status Solidi, Vol 14,
No 1, 1966, pp 181-187.
AIR/FID/AT-23-1571-67

sci/physics
mar 69

377,804

Properties of the Lin Lin Lattice, by G. Bruckner,
K. Kleinstuck, et al.
GERMAN, per, Phys. Status Solidi, Vol 14, 1966,
pp 297-302. 1911125866
AUC UCRL-tr-10060

Sci/Physics
Dec 66

314,600

ACSI

#73 CH-506

R-9674-D

8 Aug 68

Der vektorielle Photoeffekt an Kalium

By: M. BRAUER

From: Phys stat. sol. 14 1966:413-425

(13 pp)

~~From~~ German - est for wds:

Please translate and type 1 copy only.

The Plasticity of Al-Zn-Alloys (I), by
H. Haberkorn, 24 pp.
GERMAN, per, Phys Status Solidi, Vol 15, 1966.
AEC/IS-Tr-79-69

Sci/Phy
Jun 69

383,307

~~382,674~~

The Diffusion Coefficient of Ni in the Beta-Phase
of the Ni-Sb System, by Th. Heumann.
GERMAN, par. Phys Stat Sol. No 15, 1966, pp 95-106.
*NBS TT 70-57390

Sci-Mat
Aug 70

Growth of CuCl Single Crystals from Hydrochloric
Acid Solution, by J. Liebertz.
GERMAN, per, Physica Status Solidi, vol. 15,
1966, pp. K123-K125.
NTC 71-12828-20L

JULY 71

Electron Spin Resonance Investigations
of the Aggregation of F-Centers in
RbCl, by P. Ehret.
GERMAN, per, Physica Status Solidi,
Vol 15, 1966, pp 239-246
NTC 72-11949-20L
NASA TT F 11,298

June 72

Study of the Interpretation of Stage 1 Recovery
of Ni Irradiated by Electrons at 20°K, by
P. Peretto. 7 pp.

FRENCH, per, Phys Stat Sol, Vol 15, 1966,
pp 281-287.

*NBS IT 70-57679

Sci-Chem
Jul 70

Injection-Determined Hole Currents in
Anthracene Crystals, bt N. Riehl, G.
Becker, H. Bassler.
GERMAN, per, Physica Status Solidi, Vol
15, No 1, 1966, pp. 339-46.
NTC 69-11166-20L

Sci-Phys
July 69

388,825

Twin Propagation in Highly Work-Hardened Metals
by G. Fontaine, 18 pp
FRENCH, per, Phys. Status, Solidi, Vol 15, 1966,
pp 603-615. P911356067
AEC ORNL-Tr-1758

Sci-Chemistry
Nov 67

344,266

Minority Carriers in CdS. Part 1.
Photo-Voltage for Optical Excitation
Inside and Outside of Eigen
Absorption Considered as a Minority
Carrier Effect, by W. Palz.
GERMAN, per, Physica Status Solidi,
Vol 15, No 2, 1966, pp 649-663
NTC 72-11947-20L
NASA TT F-11,364
June 72

Minority Carriers in CdS. Part II.
Concentration and Lifetime of
Majority and Minority Carriers,
by W. Palz.

GERMAN, per, Physica Status Solidi,
Vol 15, 1966, pp 665-674

NTC 72-11948-20L

NTC 72-11948-20L

June 72

Further Investigations Regarding Relaxation
Phenomena in Fe-Si-C(N) Alloys, by
J. W. Moron, B. Pilch.
GERMAN, per, Physica Status Solidi, Vol 16,
No 2, 1966.
*BISI 6771

Sci/Materials
Jan 69

Anisotropic Electron Distribution in Pure
Semiconductors in the Neighborhood of the
Avalanche, by R. Granger, 14 pp.
POLISH, per, Phys Stat Sol, Vol XVI, 1966,
pp 599-611.
CIA/FDD X-6122

Sci - Elect & Elec Engr
Mar 67
FOR OFFICIAL USE ONLY

320,074

Concentration of Vacancies Around the Interface
of a Diffusion Couple Due to Temperature and
Electric Potential Gradients, by D. A. Blackburn.
FRENCH, per, Phys Stat Sol, Vol 17, 1966,
pp 3-9.

*Nat Bur Stand TT 70-57893

Sci-Phys
Jul 70

ELECTRIFICATION OF Polyethylene and Polystyrene
After Gamma Radiation, by M. G. Asch, et al.
GERMAN, per, Phys Stat Solidi, Vol XVII, No 1
1966, pp 49-57.
NASA TT F-10,423

U. S. GOVERNMENT USE ONLY

Sci-Phys

Dec 66

314,945

Fundamental Consideration of a Nonlinear Theory
of Initial Susceptibility of Uniaxial Ferromagnetic
Layers, by H. Hoffmann.

GERMAN, per, Physica Status Solidi, vol. 17,
1966, pp. K105-K107.

NTC 71-12827-20L

JULY 71

The Non Local Classic Theory of
Dielectrics, by E. Kroner, D. Kessal.
GERMAN, per, Phys Stat Sol, Vol XVII,
No 1, 1966, pp 211-220.
NASA TT F-10,424

GOVERNMENT USE ONLY

Sci-Phys

Mar 67

320,320

Investigation of the Decomposition of Vacancy
Agglomerates in Neutron-Irradiated Nickel by
Means of the Critical Shear Stress, by D.
Ast, J. Diehl, 21 pp.
GERMAN, per, Physica Status Solidi, Vol 17,
1966, pp 269-284. P911106967
AEC-ANL-Tr-420

324,316

Sci - Nuclear Science
Ajr 67

The Study of Point Defects Formed by Neutron
Bombardment in Iron Containing Some Impurities,
by P. Vigier.

GERMAN, per. Phys Status Solidi, Vol 17, 1966,
pp 317-321.

HLI Ref: 9022.09 (4560)

Sci-Phys
Aug 68

362,034

A Method for Determining Partial Diffusion
Coefficients from the Kirkendall Effect over the
Entire Concentration Range, by H. Wever.
GERMAN, per, Phys Stat Sol. No 18, 1966, pp K25-27.
*NBS TT 70-57399

Sci-Phys
Aug 70

Diffusion of Sn and Zn in Sn in Homogenous Sn-Zn
Alloys, by D. Bergner.
GERMAN, per. Phys Stat Sol., No 18, 1966, pp 67-74.
*NBS TT 70-57410

Sci-Mat
Aug 70

Volume and Grain Boundary Diffusion of Sn and
Zn in Heterogeneous Sn-Zn Alloys, by D. Bergner.
GERMAN, per. Phys Stat Sol. No 18, 1966, pp 75-84.
*NBS TT 70-57398

Sci-Mat
Aug 70

Edge Dislocation Core Structure and the
Peierls Barrier in Body-Centered Cubic
Iron, by R. Chang, L. J. Graham,
POLISH, per, Physica Status Solidi,
Vol XVIII, No 1, 1966, pp 99-103.
Tech Information Homer
Research Lab Bethlehem Steel Cor
No 2719

Mar 67

320,583

The Critical Shear Stress in Cubic Crystals with
Defects Having Tetragonal Symmetry -
III Electron and Neutron-Irradiated Aluminum
and Electron-Irradiated Copper, by W. Frank,
10 pp.
GERMAN, per, Phys. Status Solidi, Vol 18, 1966,
pp 459-464. P911390967
AEC BNL-TR-162

Sci-Physics
Dec 67

346,200

The Effect of Excess Antistructural Bi on the
Heat Conductivity of Crystal Lattice Bi_2Te_3 ,
 $\text{Bi}_2\text{Te}_3\text{-Sb}_2\text{Te}_3$ and $\text{Bi}_2\text{Te}_3\text{-Bi}_2\text{S}_3$ with Added
Iodine, by V. A. Kutasov, I. A. Skimov. 18 pp.
GERMAN, per, Physica Status Solidi, Vol 18, No 1,
1966, pp 479-488.
AIR/IND/IN-23-505-68

sci/physics
apr 69

379,985

English Title Unknown, by D. Schmid.
GERMAN, per, Physica Status Solidi, Vol 18,
No 653, 1966, pp 653-666.
*NASA TT F-11,278

GOVERNMENT USE ONLY
Dec 67

A High-Resolution Method of Investigating the Magnetic Structure of Superconductors, by H. Traeuble.
GERMAN, per, Physica Status Solidi,
Vol 18, 1966, pp 813-828
NTC 72-11716-20C
NASA TTF-11,728

June 72

The Critical Shear Stress in Cubic Crystals
with Defects Having Tetragonal Symmetry -
IV. The Lower Yield Stress of α -Iron, by W.
Frank, 18 pp.
GERMAN, per, Phys. Status Solidi, Vol 19, 1967,
pp 239-250. P911387867
AEC BNL-TR-161

Sci-Physics
Dec 67

346,202

Electron Microscopy of Small Defect Clusters in
Irradiated Metals. I. The Theory of Contrast
and Experimental Methods for Determination of
the Type of Defect, by H. Rohle.

GERMAN, per, Physica Status Solidi, Vol 19,
1967, pp 265-278.

*AEC 2540

*NBS TT 70-53105

AVAILABLE NBS ONLY

Sci/Methods & Equip.
Mar 67

Electron Microscopy of Small Defect Clusters in
Irradiated Metals. II. Investigations on
Neutron-Irradiated Nickel, by E. Ruhle, 12 pp.
GERMAN, per, Physica Status Solidi, Vol 19,
1967, pp 279-295. P911266868-V
AEC-AERE-Tr-1087

NBS TT 70-5310

Available NBS Only

Sci/Mat
Nov 68

352,969

Elastic Constants in the Flux Line Lattice in
Type II Superconductors, by R. Labusch.
Physica, ser. Phys. Status Solide, Vol 19, No 2,
1967, pp 715-719.

CXCB

C. S. trans 5170

sci/physics

mar 70

404,478

Observation of Magnetic Structures
of Superconductors of the Second
Type, by H. Traeuble.
GERMAN, per, Physica Status Solidi,
Vol 20, 1967, pp 95-111
NTC 72-11718-20L
NASA TTF-11,727

June 72

Formation of Flux Threads in Type II Superconductors, by S. Takacs.
GERMAN, per, Physica Status Solidi, Vol 21,
1967, pp 709-716.
NTC-69-16119-20L

Sci-Phys
Feb 70

403,054

Study of the Activation Curve and the Diffusion
Mechanism in Soft Metals, by P. Reimers.
GERMAN, per, Phys Stat Sol., Vol 22, 1967, pp K27-32.
*NTIS/NBS TT 71-55117

Available NBS Only

June 71

Remarks on Weiser's Theory of Diffusion of Interstitials in the Diamond Lattice, by L. Matyas.
GERMAN, per, Phys Stat Sol. No 22, 1967, pp K141-145.
*NBS TT 70-57432

Sci-Phys
Aug 70

Self-Diffusion in the Grain Boundaries of a
Bi-Crystal of Ag Under Hydrostatic Pressure,
by G. Martin.

FRENCH, per, Phys. Stat. Sol., No 23, 1967,
pp 223-228.

©MBS IT 70-57682

Available MBS Only

Sci/Phys
Sept 70

Thermo and Electrotransport in Beta-Ti and Beta-Zr, by H. Dubler.
GERMAN, per. Phys Stat Sol, No 25, 1968, pp 109-118.
*NBS TT 70-57441

Sci-Mat
Aug 70

Defects in the Lattice of Flux Lines
of Superconductors of the Second
Type, by H. Traubel.

GERMAN, per, Physica Status Solidi,

Vol 25, 1968, pp 373-393

NTC 72-11685-20L

NASA TT F 11,726

NLL Ref: 5828.4F (7179)

June 72

The Direct Detection of Flux Line
Motion in Current-Carrying Super
Conductors, by H. Traeuble.
GERMAN, per, Physica Status Solidi,
Vol 25, 1968, pp 395-402
NTC 72-11717-20L
NASA TT F-11, 729

June 72