

Effect of Correction of the Distribution  
of Temperature in Liquid Metal, by V. O.  
Gogen-Torn, H. B. Gokhshtein.

GERMAN, *per*, *Metallurg*, Vol XX, No 9, 1940,  
pp 19-22.

Sci

Aug 58

~~3185~~  
*Butcher Jr*  
*7/1, 69/6*

The Use of a Torsion Pendulum for Defect and Diffusion  
Studies in Al Alloys, by H. Kostron.

GERMAN, per, Metall, Vol 1, 1948, pp 179-185.

\*NFIIS TT 71-55143

Available NBS Only

June 71

Refining Metal Scrap With Mercury on Separating Agent, by W. Schmidt.

GEMMEL, New, Metall: Wirtschaft, Wissenschaft, Technik  
Vol 111, no 1-2, 1949, pp 10-13.

Dept of Int  
US Bur of Mines  
Eastern Super Sta  
College Park, Md.

Sol - Ings:

May 59

87,747

Selected Observations in the Field of  
Al-Production by the Hg Process, by  
Georg Messner, 7 pp.

NGERMAN, per, Metall, Vol III, No 1/2, 1949,  
pp 14, 15.

Dept of Interior  
TN7 B57 No 646

Sci - Mat & Met

May 63

230,711

Contribution to the Investigation of Four Component Alloys. Investigation of the Aluminum Corner of Quaternary Systems Al-Cu-Mg-Si and Al-Fe-Mg-Si, by Angelica Schrader, 9 pp.

GERMAN, per, Metall, Vol III, No ~~274~~ <sup>7/8, 9/10</sup> 1949, pp 111, 115; 150-154.

34, 274

S.L.A. No 395/1956

Scientific - Minerals/metals

62-16924

Bauer, R. and Eisen, J.  
INDUSTRIAL EXPERIENCE WITH A PHOTO-ELEC-  
TRIC COLORIMETER OF DR. B. LANGE. [1962] 6p.  
(fig. refs. omitted).  
Order from SLA \$1.10

62-16924

- I. Title: Lange colorimeter
1. Bauer, R.
- II. Eisen, J.
- III. Lange, B.

Trans. of Metall (West Germany) 1949, v. 3, June,  
p. 187-192.

DESCRIPTORS: \*Industrial equipment, \*Colorimetric  
analysis, \*Photoelectric cells, Test equipment.

(Engineering--Chemical, TT, v. 9, no. 1)

Office of Technical Services

Structural and Property Anomalies in Manganese  
Containing Aluminum Alloys as a Result of Super-  
Cooling, by K. L. Dreyer, M. Dudek, 4 pp.

GERMAN, per, Metall, Vol III, No 13/14, 1949,  
pp 129-222.  
219

SLA 2303

Sci - Minerals/Metals  
Oct 57

54, 021

Multiple-Mold Casting of Bars and Rods, by W.  
Helling, F. Gassner, 16 pp.

GERMAN, par, Metall, No 22, p 367, 1949, No 23/24,  
p 418.

SLA 2315

Sci - Minerals/Metals  
Oct 57

54,055



<p>Kalpers, H. CONTACT BI-METALS. [1962] 6p. (1 table omitted). Available on loan from SLA                      62-16960</p> <p>Trans. of [Metall] (West Germany) 1950, v. 4 [no. 5] p. 193-195.</p> <p>DESCRIPTORS: *Metals, Economics, Rivets, Silver, Metal coatings, Coatings, Electroplating.</p> <p>(Metallurgy. TT, v: 8, no. 5)</p>	<p>62-16960</p> <p>I. Kalpers, H.</p> <p>Office of Technical Services</p>
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The Chlorine-Nitrogen Refining of Non-ferrous  
Metals, Especially Light Metals, by W. Dautsenberg,  
15 pp.

GERMAN, bino per, Metall, Vol IV, No 7/8, 1950,  
pp 125-129.

S.L.A. Tr 569/56

Sci - Min/Met  
Aug 56 CDE/lex

38,370

The Suitability of Zirconium and Thorium  
Carbide for Sintered Hard Metal Alloys, by R.  
Kleffer. UNCL.

GERMAN, per, Metall, Vol IV, No 7-8, 1950,  
pp 132-136.

British Iron and Steel Ind  
(no number given)

Sci - Min/Inst  
Sep 59

98, 251

Structure and Industrial Manufacture of  
Corrosion-Resistant Magnesium-Manganese Alloys,  
by A. Schneider and H. Stobbe-Scholder, 32 pp.  
GERMAN, per, Metall, Vol 4, May 1950,  
pp 178-183. P911043068  
AEC UCRL-TRANS-10157

Sci-Materiale  
Mar 68

350,667

The Extraction of Beryllium, by G. Jaeger, 21 pp.

GERMAN, per, Metallurg, Vol IV, 1950, pp 183-191.

A.E.R.E. Harwell Lib Tr 703

Sci - Chemistry  
March 57 CIB/aex

44, 471

TT-63-20507

Bungardt, W., and Kallenbach, R.  
THE RELATIONSHIP BETWEEN THE THERMAL AND  
ELECTRICAL CONDUCTIVITIES OF ALUMINUM AND  
MAGNESIUM ALLOYS. [1963] [20p] (figs tables omitted  
omitted) 35refs  
Order from SLA \$1.60                      TT-63-20507

I. Bungardt, W.  
II. Kallenbach, R.

Trans. of Metall (West Germany) 1950, v. 4,  
p. 317-321, 348-369. (Abstract available)

DESCRIPTORS: \*Aluminum alloys, \*Magnesium alloys,  
Thermal conductivity, Electrical conductance.

Recent literature data on the electrical and thermal  
conductivities of light metals were investigated for the  
relationship between the two conductivities from the  
standpoint of whether it is practically possible to  
replace the measurement of the heat conductivity by  
the simpler measurement of the electrical conductivity  
(Metallurgy--Light Metals, TT, v. 11, no. 4) (over)

Office of Technical Services

The ~~ZIEGLER~~ Technological Properties of Mg-Ce-Zn  
Cast Alloys, by G. Siebel, H. Vosskuhler.

GERMAN, per, Metall, Vol IV, No 17/18, Sep 1950,  
pp 370-374.

(A

TPA3/TIB  
T 4354

29,330

Sci - Minerals/Metals  
CTS 75/Dec 55

TT-67-610-7

TT-63-20516

I. Späth, W.

Späth, W.  
THE EVALUATION OF ENDURANCE TESTS IN  
MATERIAL TESTING. [1963] 8p (figs omitted) 4refs  
Order from SLA \$1.10      TT-63-20516

Trans. of Metall (West Germany) 1950, v. 4,  
p. 374-377. (Abstract available)

DESCRIPTORS: \*Loading (Mechanics), Steel, Lead  
alloys, Aluminium alloys, Statistical analysis, \*Fatigue  
(Mechanics), Tests.

It is proposed instead of plotting the time or the applied  
load variation numbers in Wöhler diagrams to introduce  
the reciprocal values, i. e. the speed of destruction. By  
doing this the limiting case of infinitely long lifetime  
can be depicted projectively as the vanishing point of  
the time axis in the finite plane and the desired critical  
load is found as a clear intercept of a straight line with  
(Metallurgy, TT, v. 11, no. 5)      (over)

Office of Technical Services



Occupational Diseases in the Light Metal  
Industry by K. H. Sroka

GERMAN, Metall, No 4 (17/18), 1950, 394-397

Translation issued by the Aluminum Laboratories, Ltd.

B-TM-96-52

OT/343

Index Aeronauticus, Oct. 1952

Material, Rolling Technique and Structural Requirements for the Manufacture of Aluminum Foils, by O. Wicke, 46 pp.

GERMAN, per. Metall, Vol IV, 1950, pp 407-416.

S.L.A.

Scientific - Minerals/Metals

24,775

Rainer, Helmut.  
THE MAGNETIC PROPERTIES OF CU-Fe SINTERED  
OBJECTS (Über die Magnetischen Eigenschaften von  
Cu-Fe-Sinterkörpern). [1963] [16]p. (foreign text  
included) 7 refs.  
Order from SLA \$1.60

63-16775

Trans. of [das] Metall (West Germany) 1950, v. 4,  
19/20, p. 416-420.

DESCRIPTORS: \*Powder alloys, \*Copper alloys, \*Iron  
alloys, Magnetic properties, Density, Sintering.

The residual magnetism, coercive force, saturation  
and demagnetization in relation to copper content and  
sintering temperature were determined for pressed  
bodies of copper and iron which were prepared by two  
different methods. The density and length undergo  
their maximum change between 700 and 900°. Samples  
(Metallurgy, TT, v. 10, no. 7)

(over)

63-16775

I. Rainer, H.

Office of Technical Services

The Recovery of Zinc in Vertical Retorts, by  
A. Reitschwin, 9 pp.

GERMAN, pat, Metall, Vol V, 1951, pp 63-67.

S.L.A. Tr 1282

Sci - Min/Metals  
Jan 77 CTS

42,588

GROUP 13: Strength of wrought ALUMINIUM Alloys, by  
H. Vosskuhler. UNCL

GERMAN, per, Metall, Vol V, No 7/8, 1951,  
pp 135-141.

British Iron and Steel Ind  
(no number given)

Sef - Min/Met  
Sep 59

98,424

The Dependence of Mechanical Properties on  
Structure in Two-Phase Alloys, by H. Unckel, 12 pp.

Full translation.

GREENMAN, per, Metall, Vol V, No 7/8, Apr 1951,  
pp 146-150/

CIA/FDD/z-58

Scientific - Chemistry

1332

May 53 CTS

~~SECRET~~  
4  
On the Further Development of Metallographic  
Measurement of Grain-Size, by C Petersen,  
17 pp.

GERMAN, PKZ. Metall, Vol V, 1951, pp 8-13.

ABC Tr 1865

Scientific - Physics  
CTB/DEX

14,377

The Alodine Process, A New Protective Process for  
Aluminium and Its Alloys, by A. Pollack, 5 pp.

GERMAN, per, Metall, Vol V, 1951, pp 19, 20.

SLA 2840

May 58

63,848



Compensation for the Errors in Measurement in the  
Drilling Process by G. Sachs in Order to Detect  
Inner Stresses in Rods and Pipes, by H. Bühler,  
W. Schreiber, 12 pp.

GERMAN, *Ger*, Metall., Vol V, 1951, pp 53-57.

*26, III*

ABC Tr 2192

Scientific Engineering

Aug 55 CTS/DEX

Creep Strength of Wrought Aluminium Alloys, by  
H. Vosskuhler. UNCL

GERMAN, per, Metall, Vol V, No 7/8, 1951,  
pp 135-141.

British Iron and Steel Ind  
(no number given)

Sci - Min/Met  
Sep 59

Influence of Anode Shape on Uniformity of Deposits in  
Nickel Plating, by D. Mojert.

GERMAN, Metall, Vol 5, 1951, No 17-18, pp 388-392.

Brutcher Tech Tr No 2863

The Alodine Process, a New Protective Process  
for Aluminium and Its Alloys, by A. Pollack,  
5 pp.

GERMAN, pat, Metall, Vol V, No 19-20, 1951, pp  
434-436.

SLA Tr 57-1968  
(AEC-Tr-2379)

Sci.

Jul 58

68,025

Rapid Analysis of Aluminum Alloys,, by J. Eisen,

GERMAN,, per,, Metall, Vol V, No 19/20, 1951,  
pp 436-441. \_\_\_\_\_

23,612

Brutcher Tr N. 3428  
#9.80

Scientific - Min/Metals

May 55 CTS

The Bonding of Aluminum to Iron and Steel by the  
Al-Fin Process, by H. Kalpers, 4 pp.

GERMAN, per, Metall, Vol V, Oct 1951, pp 444-446.

<sup>14</sup>  
SLA 2317

Sci - Minerals/Metals  
Oct 57

54,026

Hot Pressing Technique for Metal Carbides and  
a Semi-automatic Hot Press, by J. Rietveld,

GERMAN, *per*, *Metal*, Vol VI, No 3/4, 1952,  
pp 81-82.

Butcher Tr No 3356  
\$2.90

Scientific - Min/Metals      Feb 55 CTS  
21,079

Study of Aluminum-Titanium Alloys High in Titanium,  
by W. Gruhl.

GERMAN, Metall, Vol 6, 1952, No 5-6, pp 134-135

Brutcher Tr no 2901



On the Oxidation of Molten Tin, by W. Gruhl,  
U. Gruhl.

GERMAN, per, Metall, Vol VI, 1952, pp 177-  
182.

Dept of Int  
US Bur of Mines  
Eastern Exper Sta  
College Park, Md.

Sci - Min/Met

May 59

87, 715

Excerpt Part III of "Recent Research Results in the  
Field of High-Melting Hard Materials"), by X  
R. Kieffer, F. Benesovsky

GERMAN, per, Metall, Vol VI, No 7-8, 1952, pp  
243-246.

Brutcher Tr 3110

Scientific - Minerals/Metals

CTB/DEX

Price \$3.50

5934

Silicides (Part IV of 'Recent Research Results in  
the Field of High-Melting Hard Materials'), by  
R. Kieffer, M. Zenasovsky.

*GERMANY*  
~~USSR~~, germ. Metall, Vol VI, No 7-8, 1952, pp 246-250.

Brutcher Tr 3111

Scientific - Minerals/Metals

Price \$2.75

Nov 53 CTS

7268

Industrial Testing of Coke for Reactivity, by  
S. Traustel.

*Serman*  
RUSSIAN, per, Metall, Vol VI, No 11-12, 1952, pp 298-302.

Brutcher Trans No 2969

Scientific - coke, metallurgy, fuels, reactivity  
Economic - Coke, fuels

V  
Surface Properties of High Purity Aluminium  
Polished by Anodic and Chemical Processes, by  
W. Helling, F. Baumann, 12 pp.

GERMAN, per, Metall, Vol VI, 1952, pp 346-350.

CIA/FDD/z-166

*28,614*

Scientific - Chemistry

Nov 55 CTS/DEX

Cases in Metals, by P. Bardenheuer,

GERMAN, per, Metall, Vol VI, No 13/14, 1952,  
pp 351-356.

23,620

Butcher Tr No 3440  
# 7.80

Scientific + Min/Metals

May 55 CTS

Examining Segregation in High Strength Mg-Al Wrought Alloys, by W. Mannchen, 5 pp.

Full translation.

GERMAN, per, Metal, Vol VI, No 13-14, July 1952, pp 360-362.

S.L.A.

Scientific - Minerals/metals

27,077

Jul 55

Hard Chroming of Aluminum, by E. Meyer-Rassler,  
22 pp. UNCLASSIFIED

GERMAN, per, Metall. Vol VI, Nos: 17, 18,  
Sep 1952, pp 504-509.

Navy Tr 1153/Buships 579

Scientific - Min/Metals May 5; CTS/DEX

24, 016



Remarkable Galvanizing Kettles, by H. Bablik, 5 pp.

GERMAN, per, Metall, Vol VI, Sep 1952, pp 513-515.

SLA Tr 2312

Sci - Min/Met

53,327

Sep 57

German methods of tapping the iron in blast furnaces  
Finishing, by W. Unbeun. URCL

GERMAN, per, Metall, Sep 1952, pp 530-534.

British Iron and Steel Ind  
(no number given)

Sci - Chem  
8ep 59

*— HP 88-1000*

*98,418*

Investigation into the Nature of "Earing" in  
the Continuous Casting of Pure Aluminium, by  
H. Hug, G. Siebel, P. Buser

Full translation.

GERMAN, per, Metall, Vol VI, No 19/20, Oct 1952,  
pp 579-586.

Aluminium Laboratories, LTD Tr No  
B-TM-109-52 OT/500

Scientific - Minerals/Metals  
Index Aeronautics  
Jun 53      CTS/DEX

2303

Hypotheses on the Effect of Size and Shape Under  
Fatigue Stressing, by A. Troost.

GERMAN, per Metall, Vol VI, No 21/22, 1952,  
Metall-Verlag, Berlin-Grunewald.

D.S.I.R./27195

Sci - Min/metals  
Apr 57 CEB/dax

46,685  
1

The Process of Aluminizing Materials for High  
Temperature use, by R. Irmann.  
GERMAN, per, Metall, Vol 6, 1952, pp 608-612.  
\*NTIS/NBS TT 71-55144  
Available NBS Only

June 71

The "Forming" of Electrode and Contact Surfaces by  
Electrical Discharge, by Albert Keil, 16 pp.

GERDIAN, per, Metall, Vol VI, No 21/22, 1952, pp 674-  
679.

S.L.A. Tr 1006/1956

Sci - Electricity

39, 2 26

Metal Science and Technology, by A.  
Troost.

GERMAN, per, Metall, Vol. VI, No 21/22,  
1952, pp 675-686.

ASLIB-GH29

Sci

71, 714

Aug 58

The Cupping Test as a Means for Determining the  
Deep-Drawing Properties of Sheet and Strip, by  
H. Boisswanger

GERMAN, ger. Metall, Vol VI, <sup>9</sup> Dec 1952, pp 744-753.

Iron and Steel Institute  
466 ON/535

Scientific - Minerals/Metals  
GHS/DEX

8176



Contributions to the Metallography of Light Metals: ( )  
3.-Formation of Texture in Wire Drawing,  
by E. Kostron,      UNCLASSIFIED

GERMAN, per, Metall, Vol VI, Nos 19-20, Oct 1952,  
pp 590-597.           

20,061

~~SECRET~~  
Alum Lab, Ltd,  
B-TM-133-53  
OF 843

Scientific - Min/Metals



The Pressure and Supply of Wind to the Blast  
Furnace, by P. Thierry.

GERMAN, par, Metallurgie, Vol LXXXV, No 1,  
1953, pp 15-19.

Broken Hill Prop Co Ltd  
(GRU./T.157)

Sci - Engr

Apr 62

*BISI 1582*  
*191.711*

Metallography of Light Metals, Part V, The Structure  
of Extrusion Press Materials, by Hans Kostron,  
Margarete Schippers, 8 pp.

GESBMAN, per, Metall, Vol VII, 1953, pp 25-29.

ABC Tr 1793

Scientific - Minerals/Metals  
Jul CIB/DHX

16,476

Friction, Fretting, and Failure of Metals, by W. Spath  
UNCLASSIFIED

GERMAN, per, Metall, Vol VII, No 1, 2, 1953, pp 34-36

ALUMINIUM LABORATORIES, LTD.  
B-TM-129-53  
OT/756

*13,040*

Scientific - Min/Metals

April 54 CTS/DEX

The Corrosion Chemical Behavior of Titanium, by  
M. E. Straumanis, P. C. Chen.

GERMAN, per, Metall, Vol VII, No 3/4, Feb 1953,  
pp 85-92.

TPA3/TIB  
T 4369

29,324

Sci - Chemistry  
TIB 75/Dec 55

Schulze, A. and Eicke, H.  
ELECTRIC BEHAVIOR OF THIN METAL COATINGS.  
I. OUTLINING THE PROBLEM. II. EXPERIMENTAL  
ARRANGEMENT AND MEASURING METHODS.  
[1962] 6p. (figs. refs. omitted).  
Order from SLA \$1.10

62-18578

Trans. of Metall (West Germany) 1953, v. 7, no. 3/4,  
p. 106-108.

DESCRIPTORS: \*Metal coatings, \*Thin films,  
Resistance (Electrical), Temperature.

(Metallurgy, TT, v. 9, no. 6)

62-18578

I. Schulze, A.  
II. Eicke, H.  
III. Title: Outlining...  
IV. Title: Experimental...

Office of Technical Services

New Knowledge on Ear Formation on Deep Drawing  
of Pure Aluminum and on the Possibilities to  
Reduce Flaring, by H.A.J. Stelljes, 7 pp.

GERMAN, per, Metall, Vol VII, Mar 1953, pp 155-  
161.

S.L.A. Tr 689/1955

Sci - Minerals/Metals  
Apr 1957 CTS/dex

30,294



Schulze, A. and Eicke, M.  
ELECTRIC BEHAVIOR OF THIN METAL COATINGS.  
III. RESULTS OF MEASUREMENT. [1962] 23p.  
(figs. refs. omitted).  
Order from SLA \$2.60

62-18639

Trans. of Metall (West Germany) 1953, v. 7, no. 5/6,  
p. 171-182.

DESCRIPTORS: \*Metal coatings, \*Thin films, Resist-  
ance (Electrical), Temperature.

See also 62-18578.

(Metallurgy, TT, v. 9, no. 6)

62-18639

I. Schulze, A.  
II. Eicke, M.  
III. Title: Results...

Office of Technical Services

Highest Permissible Alloys in the Ni-Fe-Cu-Mo  
System, by F. Assmus, F. Pfeifer, 12 pp.

GERMAN, per, Metall, Vol VII, No 5/6, 1953,  
pp 189-191.

SLA 57-2512

Sci

Aug 58

69, 837

62-16988

I. Erdmann-Jesnitzner, F.

Erdmann-Jesnitzner, F. and others.  
STUDY OF STRUCTURE OF VERY FINE COPPER  
WIRES WITH 0.15 TO 0.02 mm DIAMETERS. [1962]  
6p. (formulas tables figs. refs. omitted).  
Order from SLA \$1.10 62-16988

Trans. of Metall (West Germany) 1953, v. 7, no. 7/8,  
p. 250-254.

DESCRIPTORS: \*Copper wire, Drawing (Machine processing), Radiography, Crystals, Scattering, Photoengraving, Dies, \*Lattices, \*Structures, Mathematical analysis.

Texture of very fine copper wires were tested with particular reference to the independence on the degree of drawing. In agreement with previous work of similar nature there is found a double fiber texture with the two preferred positions of the crystallites along (111) and (Metalurgy--Structural, TT, v. 9, no. 2) (over)

Office of Technical Services

Liquid Honing of Metals, by H. H. Finkelburg.

GERMAN, per, Metall, Vol VII, No 9/10, 1953,  
pp 330-334.

Brutcher Trans ~~818~~ 3596  
\$4.80

Sci - Minerals/Metals

29,607

Kollmar, M.  
LIQUID NOBLE METAL SOLUTIONS FOR METALLIZ-  
ING CERAMIC MATERIALS, GLASS, AND PLASTICS.  
[1962] 5p. (fig. omitted).  
Order from SLA \$1.10

62-18406

Trans. of Metall. (West Germany) 1953 [v. 7] June,  
p. 427-429.

DESCRIPTORS: Liquid metals, \*Metal coatings, \*Gold,  
\*Platinum, \*Silver, \*Ceramic materials, \*Glass,  
\*Plastics, Electronic equipment, Soldering alloys,  
Electrolytes.

The composition, method of working up, and application  
of noble metal preparations for the production of noble  
metal coatings on porcelain, ceramic specialty materi-  
als, glass, quartz, mica, and plastics are described;  
these are used chiefly in high-frequency technique for  
(Materials, TT, v. 9, no. 4) (over)

62-18406

I. Kollmar, M.

Office of Technical Services

Relation Between Ludwik's Hardness and Yield  
Curve by Means of the Energy Balance, by  
R. Boklen, 21 pp.

GERMAN, per, Metall, Vol VII, 1953, pp 436-441.

AEC Tr 2216

Scientific - Minerals/Metals  
Physics

CIS 73/Oct 1955

27,152

Practical Experiences Gained in the Ultrasonic  
Inspection of Turbo Generator Rotor Forgings as  
Acceptance Test, by R. Schinn

GERMAN, per, Metall, Vol VII, RESEARCH no 13-14,  
1953, pp 502-506.

Bratcher Tr 3230

Scientific - Minerals/Metals  
CTS/DEX Price \$4.90

11,403

The Problem of Sampling for the Spectrum Anzlysis  
of Light Metals, by K. E. Mann, 4 pp.

GERMAN, no par, Metall, Vol VII, No 15/16, Aug 1953,  
pp 602-603.

S.L.A. Tr No 385/1955

Sci - Minerals/Metals  
Jan 1957 CTS/dex

45,008



The Reaction of Solid Iron With Molten Aluminum  
Alloys Containing Zinc, by K. Schneider,  
H. Kessler

GERMAN, For, Metall, Vol VII, No 15-16, 1953,  
pp 608-610.

Brutcher Tr 3168

*S-A 57-2685*

Scientific - Minerals/Metals  
CTS/DEX      Price \$3.90

*7854*

On Some Problems of High-Vacuum Metallurgy,  
by W. Scheide,

GERMAN, per Metall, Vol VII, No 19/20,  
1953, pp 751-754.

23,619

Brutcher Tr No 3488

\$ 3.00

T.L.Ta 4603

Scientific - Min/Metals

May 55 CTS

The Accumulator Industry, by D. Everts.

GERMAN, par, Metall, No 7, 1953,  
pp 881-885.

CSIRO

WIEBUR - Germany (?)

Econ  
Jul 62

207,679

Sintered Nickel-Copper Alloys (Model), by  
F. Bensusovsky.

GERMAN, per, Metall. Vol VII, Nos 21, 22,  
1953, pp 894-895.

Brutcher Tr  
No 3363

Scientific - Min/Metals      Jan 55 CTS/DEX

*20,894*

The Disposal of Sulphuric Acid Pickling Solutions,  
M. Puschner. UNCL

GERMAN, per, Metall, Nov 1953, pp 896.

British Iron and Steel Ind  
(no number given)

Sci - Chem  
Sep 59

98,349

Contribution to System Tungsten Carbide - Titanium  
Carbide - Chromium Carbide, by O. Rudiger

GERMAN, per, Metall, Vol VII, No 23-24, 1953,  
pp 967-969.

<sup>c</sup>  
Brutäher Tr 3220

Scientific - Minerals/Metals  
CTS/DIEK                      Price \$3.00

9283

Experiments on the Solubility of Titanium in  
Magnesium, by H. Eisenreich,  
GERMAN, per, Metall, Vol VII, No 23/24, 1953,  
pp 1003-1006.

Sept 66

311,272

Preparation and Constitution of Copper-  
Boron Alloys, by F. Lihl, O. Fleischl.

GERMAN, per; Metall, Vol VIII, Nos 1, 2, 1954,  
pp 11-19.

Brutcher Tr  
No 3309

Scientific - Min/Metals Jan 55 CRS/DEX

20,895



The Position and Probable Development of ~~Cobalt~~  
Cobalt, by W. Gehr,

HERMAN, per, Metall, Vol VIII, No 3/4, 1954,  
pp 143-146.

TPA3/TIB Tr No T 4410

Scientific - Min/Metals      Mar 8 55 CTS

*21,825*

Investigations of Electrolytic Capacitor Foils,  
by L. Holik, H. Nowotny, 16 pp.

*Vol*  
GERMAN, par, Metall, No 8 VIII, No 5/6, Mar 1954,  
pp 180-184. *p*

*Tr*  
SLA 2305

Sci - ZENEK Minerals/Metals  
Oct 57

54,025

63-10002

Waldura, W.  
PROGRESS IN CONSTRUCTION OF METAL ROLLING  
MILLS. [5] Sp. (figs. omitted).  
Order from SLA \$1.10                      63-10002

I. Waldura, W.

Trans. of Metall (West Germany) 1954, v. 8, no. 7/8,  
p. 280-282.

DESCRIPTORS: \*Rolling mills, Construction, Metals,  
Mechanical working.

(Metallurgy, TT, v. 9, no. 9)

Office of Technical Services

Hot Pressing of Copper Powders, by R. Palme.  
UNCLASSIFIED.

GERMAN, per, Metall, Vol VIII, Nos 9, 10, 1954, pp 369-371.

Brutcher Tr No 3351

Scientific - Min/Metals

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The Alodine Process, a New Protective Process  
for Aluminum and Its Alloys, by A. Pollack

GERMAN, pat., Metall, Vol V, 1954,, pp 434-436.

AEC Tr 2379

Scientific - Min/Metals  
Feb 56 CTS/dex

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62-16989

Finkelburg, H. H.  
MODERN METHODS FOR MECHANICAL FINE  
FINISHING OF METALS. [1962] 7p. (figs. refs.  
omitted).  
Order from SLA \$1.10                      62-16989

I. Finkelburg, H. H.

Trans. of Metall (West Germany) 1954, v. 8, June,  
p. 459-462.

DESCRIPTORS: \*Metals, \*Precision finishing, Machine  
tools, Machining, Casting, Surfaces, Ultrasonics.

(Metallurgy, TT, v. 9, no. 2)

Office of Technical Services

Electrical Contracts of Noble Metals, by A. Keil,  
10 pp.

GERMAN, per, Metall, Vol VIII, 1954, pp 611-614.

ABC Tr-4360

Sci - Min/Met  
Apr 61

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Ferro-Alloys and Cast-Iron Melts.

GERMAN, per, Metallurgie, Vol X, 1954,  
pp 733-740.

CSIRO

Sci - Min/Met  
May 62

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Gas Emission and Gas Transmission of Metallic  
Vacuum Materials, by E. Waldschmidt, 20 pp.

GERMAN, per, Metall, Vol VIII, No 19/20, 1954,  
pp 749-768. 9090533

A.C.S.I.L. No 1353

Sci- Min/Metals

Aug 62

211,508

Leaching of Sulphide Minerals Under Oxygen Pressure, by  
G. Bjorling.  
GERMAN, per Metall, Vol. 8, 1954, pp 781-784  
EZ

Sci -  
Aug 67

339-662

62-18426

I. Melchior, P.

Melchior, P.  
MODULUS OF ELASTICITY AND YIELD POINT OF  
COPPER AND COPPER ALLOY SPRING SHEET. [1962]  
6p. (figs. formulae omitted).      62-18426  
Order from SLA \$1.10

Trans. of Metall (West Germany) 1954 [v. 8, no. 21/22]  
p. 850-852.

DESCRIPTORS: Sheets, \*Copper alloys, \*Copper,  
\*Stresses, Plasticity, Deformation, \*Elasticity, Wire.

Both in the case of copper and copper alloys (except  
brass), the elastic modulus known usually only as a  
constant value has proved to be strongly dependent on  
the breaking strength, or the degree of cold work. This  
relationship depends on the preferred crystal direc-  
tions; yet these directions have not been closely studied.  
In the mono crystal the elastic modulus is known to be  
(Metallurgy, TT, v. 9, no. 3)      (over)

Director of Technical Services

Heated Ingot Containers for Extrusion of Light  
and Ferrous Metals, by H. M. Hiller, 13 pp.

GERMAN, per, Metall, Vol VIII, 1954, pp 923-929.

**EDX** AEC Tr 2189

Scientific Minerals/Metals  
CIS 72/Sep 1955

*26, 562*

Magnetic Anisotropy, by H. Hesselbach. UNCL

GERMANY, Ger, Metall, Vol VIII, No 23/24, 1954,  
pp 929-935.

British Iron and Steel Ind  
(no number given)

Sci - Min/Inst  
Sep 59

98, 195

Evolution of Gas and Permeability to Gas of  
Constructional Metals for Vacuum Systems, by  
E. Waldschmidt, 16 pp.

GERMAN, per, Metall, No 19, 20, Oct 1954.

S.L.A. Tr 57-111

Sci - Engineering  
May 57

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SLA TR 57B363

Kroll, W. J.  
PROBLEMS OF TITANIUM METALLURGY. [1962]  
[18]p. 41 refs.  
Order from SLA \$1.60

62-20095

Trans. of Metall (West Germany) 1955, v. 9, no. 1/2,  
p. 1-6.

DESCRIPTORS: \*Titanium, Metallurgy, Oxides, Iron  
compounds, Titanium compounds.

(Metallurgy--Light Metals, TT, v. 9, no. 10)

62-20095

I. Kroll, W. J.

Office of Technical Services

Behavior of Metal Heater Wires When Tested for  
Service Life, by A. Schulze, D. Ender

GERMAN, bimbo per, Metall, Vol IX, No 1/2, 1955,  
pp 9-13.

Brutcher Tr 5722  
\$9.80

Sci - Min/Metals  
Sep 56 GTS

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Nondestructive Testing of Metals With Electro-  
magnetic Instruments Using Probes, by H.  
Breitfeld.

GERMAN, par, Metall, Vol IX, No 1/2, 1955,  
pp 14-22.

Henry Bratcher 4408  
\$19.00

Sci. - Engr, Electron

Jan 59

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62-14055

Pahlitsch, G. and Windisch, H.  
SOME WAYS OF ECONOMICAL BELT POLISHING.  
[1961] 7p. (7 figs. 11 footnotes refs. omitted).  
Order from SLA \$1.10                      62-14055

I. Pahlitsch, G.  
II. Windisch, H.

Condensed trans. of Metall (West Germany) 1955,  
v. 9, no. 1/2, p. 27-33.

DESCRIPTORS: \*Belts, Grinders, Abrasives, Coats,  
Manufacturing methods.

(Machinery--Machine Parts, TT, v. 8, no. 2)

Office of Technical Services

What Reactions Cause Frothing of Slag in the Basic  
Open-Hearth (Process), by K. Felloht.

GERMAN, per, Metallurgie, Vol V, Mar 1955,  
pp 85-102.

BIBI 2537

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May 62

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Non-slip Point in Boiling, by  
Z. Wasatowski.

GERMAN, per, Metallurgie, 1955,  
pp 103-114.

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Sci - Engr  
Jan 62

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Conditions for the Deposition and Structure of  
Compact Electrolytic Metal Deposits. Part II.  
Electrolytic Nickel Deposits in the Range of the  
Ft and U<sub>d</sub> Type, by J. Elye, 15 pp.

GERMAN, per, Metall, Vol ~~XX~~ IX, 1955, pp 104-109.

AEC Tr 3167

Sci - Min/Met

May 58

62, 640

The Influence of Carbon Bricks in Blast-furnace  
Hearths, ~~The~~ Heat Engineering Viewpoint, by R.  
~~Eng~~ Banke, J. Tischendorf.

GERMAN, per, Metallurgie, Apr 1955, p 123-127.

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Jul 59

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Attack by Pig-Iron and Slag on Carbon Refractories  
for Blast Furnaces, by W. Kuntacker, J. Holzhey.

GERMAN, per, Metallurgie, Apr 1955, pp 128-132.

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