

TT-64-22208

Levin, E. S.
ON THE CONDITIONS FOR BUBBLE FORMATION IN
LIQUID STEEL DURING VACUUM TREATMENT,
AND THE POSSIBILITY OF HYDROGEN ELIMINATION
IN BUBBLES. 24refs.
Order from SIC \$12.00

I. Levin, E. S.
II. Scientific Information
Consultants Ltd.,
London (England)

Trans. of Akademiya Nauk SSSR / Izvestiya / Metallur-
giya i Gornoe Delo, 1963, no. 6, p. 68-73.

(Metallurgy--Ferrous Metals, TT, v. 12, no. 3)

Office of Technical Services

TT-64-22209

Pania, V. V., Borovskii, O. B., Ivakhnenko, I. S.,
and Iodkovskii, S. A.
K-RAY INVESTIGATION OF THE ELECTROSLAG
REMELTING OF STEEL.
Order from SIC \$12.00

Trans. of Akademiya Nauk SSSR Izvestiya Metallur-
giya i Gornoe Delo, 1963, no. 6, p. 90-95.

I. Pania, V. V.
II. Borovskii, O. B.
III. Ivakhnenko, I. S.
IV. Iodkovskii, S. A.
V. Scientific Information
Consultants Ltd.,
London (England)

(Metallurgy--Ferrous Metals, TT, v. 12, no. 3)

Office of Technical Services

TT-64-22211

Alyamovskii (S. I.), Gel'd, P. V. and Shveikin, G. P.
ON THE BETA AND DELTA NIOBIUM OXYCARBIDES.
p. Order from SIC \$8.00

bridged trans. of Academiya Nauk SSSR, Izvestiya,
Metallurgiya i Gornoe Delo, 1963, no. 6, p. 139-145.

I. Alyamovskii, S. I.
II. Gel'd, P. V.
III. Shveikin, G. P.
IV. Scientific Information
Consultants Ltd.,
London (England)

Metallurgy, TT, v. 12, no. 3)

Office of Technical Services

TT-64-22212

Kornilov, I. I. and Myasnikova, K. P.
THE EFFECT OF TEMPERATURE ON THE HARD-
NESS OF BINARY NICKEL-PALLADIUM AND NICKEL-
RHODIUM ALLOYS. Srefs.
Order from SIC \$12.00

Trans. of Akademiya Nauk SSSR, Izvestiya Metallurgiya
i Gornoe Delo, 1963, no. 6, p. 140-151.

I. Kornilov, I. I.
II. Myasnikova, K. P.
III. Scientific Information
Consultants Ltd.,
London (England)

(Metallurgy--Nonferrous Metals, TT, v. 12, no. 3)

Office of Technical Services

Instability in Properties of Certain Bi_2
 Te_3 Based Alloys, by G. N. Gordyakova,
S. S. Shtani.
RUSSIAN, per, Izvestiya Akad Nauk SSSR,
Metallurgiya i Gornoye Delo, No 6,
pp 155-159, 1963 9229807
AEC-Tr-6584

Sci-M&M
Nov 65

291,653

TT-64-22214

Lainer, D. I. and Bai, A. S.
KINETICS OF TITANIUM OXIDATION BY STEAM.
6 refs.
Order from SIC \$12.00

Trans. of Akademiya Nauk SSSR, Izvestiya, Metallur-
giya i Gornoe Delo, 1963, no. 6, p. 166-167.

I. Lainer, D. I.
II. Bai, A. S.
III. Scientific Information
Consultants Ltd.,
London (England)

(Metallurgy--Light Metals, TT, v. 12, no. 3)

Office of Technical Services

TT-64-22215

Plaksin, I. N., Barysheva, K. F., and Zaitseva,
S. P.
ON THE ACTION OF FLOTATION REGULATING
AGENTS ON RARE EARTH. 14refs.
Order from SIC \$12.00

Trans. of Akademiya Nauk SSSR (Izvestiya, Metallur-
giya i Gornoe Delo, 1963, no. 6, p. 168-173.

I. Plaksin, I. N.
II. Barysheva, K. F.
III. Zaitseva, S. P.
IV. Scientific Information
Consultants Ltd.,
London (England)

(Metallurgy--Nonferrous Metals, TT, v. 12, no. 3)

Office of Technical Services

TT-64-22216

A. S. ZAV'YALOV'S THEORY OF AUSTENITE
TRANSFORMATION. 6p.
Order from SIC \$12.00

Abridged trans. of Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1963, no. 6, p. 174-183.

I. Zav'yalov, A. S.
II. Scientific Information
Consultants Ltd.,
London (England)

(Metallurgy--Ferrous Metals, TT, v. 12, no. 3)

Office of Technical Services

High-speed Magnetic Roasting of
Iron Ores in a Two-Stage Vortex
System, by M. I. Gromov and P. Z.
Subeko.

RUSSIAN, per, Izvestiya Akad Nauk
SSSR, Metalurgiya i Gornoye Delo,
No 1, 1964, pp 15-19.
NLL R 0220, 7817 B. (On Loan)

SIC

Aug 65

2
286,443

The Influence of Small Additions of
Aluminium on the Viscosity of Liquid
Iron, by A. A. Romanov and V. G.
Kochegarov.

RUSSIAN, per, Izvestiya Akad Nauk
SSSR, Metalurgiya i Gornoye Delo,
No I, 1964, pp 41-44.
NLL R 0220, 7817 B. (On Loan)

SIC

Aug 65

286,440

Preparation of Silicon Carbide and Its
Alloys With Boron by Vapour Deposition
on to a Heated Surface, by G. A. Meerson
and L. A. Nisel'son.
RUSSIAN, per, Izvestiya Akad Nauk, SSSR,
Meta'urgiya i Gornoye Delo, No 1, 1964,
pp 67-77.
NLL R 0220, 7817 B. (On Loan)

SIC
Aug 65

286,441

Quenching of Aluminium Alloys in
Hot Media, by N. A. Loktionova.
RUSSIAN, per, Izvestiya Akad Nauk
SSSR, Metalurgiya i Gornoye Delo,
No 1, 1964, pp 85-91.
NLL R 0220, 7817 B. (On Loan)

SIC

Aug 65

286,444

Defect Accumulation and Submicro-Crack Formation
During Static Elongation of Armco-Iron, by
I. A. Oding, Yu. P. Liberov.
RUSSIAN, per, Izv. Akad. Nauk SSSR, Metallurgiya
i Gornoe Delo, No 1, 1964, pp 113-119.
SIC

Sci/Mechan Engr
Jun 67

327,719

Effect of Tungsten Content on the
Properties of High-speed Steels,
by D. S. Kremnev and Iu. A. Geller.
RUSSIAN, per, Izvestiya Akad Nauk
SSSR, Metalurgiya i Gornoye Delo,
No 1, 1964, pp 136-142.
NLL R 0220, 7817 B. (On Loan)

SIC

Aug 65

286,445

Relation Between the Heat of Dissociation
and Creep Resistance of MeM13 Type Inter-
metallic Cpds, by I. I. Kornilov and N. M
Mateeva.

RUSSIAN, per, Izvestiya, Akad Nauk SSSR,
OTN, Met i Gorn. Delo., 1964, No 1, pp
143-150.

NLL 5828.4 1964 (5493) (On Loan)

Aug 65

286,949

Effect of Iron on the Solubility of Lithium
in Aluminium, by Z. A. Sviderskaya and
E. S. Kadaner.
RUSSIAN, per, Izvestiya Akad Nauk, SSSR
Metalurgiya i Gornoye Delo, No 1, 1964,
pp 166-169.
NLL R 0220, 7817 B. (On Loan)

Aug 65

286,442

Effect of Temperature on the Physical Properties of
Tungsten Carbide-Cobalt Hard Metals, by
V. I. Tumanov, x V. F. Funke, et al.
RUSSIAN, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Met i Gorn Delo, No 1, 1964, pp 170-175.
HB 6262

Sci - Mat/Met
May 64

258,377

Use of a mixture of Methyl and High-Molecular Xanthates in
flotation, by I.N. Plaskin. E. A. Anfimova.
RUSSIAN, per, Izv Akad Nauk SSSR Met Gornoe Delo, No 1,
1964, pp 8-184 - 186
CRL/T 1760

Sci -
Sep 67

340,225

Influence of a Vacuum in Increasing the
Deoxidising Power of Carbon in Iron-Carbon
Melts, by Chia-lung Hsu, Yu. A. Polyakov,
A. M. Samarin,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2, pp 17-
25
SIC

Sci - ~~XXXX~~Meta
June 67

327,527

Mechanism of the Removal of Non-Metallic
Inclusions from Drops of Steel During
Their Movement in a Slag, by
V. V. Khlynov; O. A. Esin, et al.
RUSSIAN, per. Izv. Ak. SSR, Met. Corros
Dokl. No 2, 1964, pp 26-30.
BISI 4160

USSR
Sci/221
May 65

278,832

Investigation of the Reaction Rates Between
Sulphides and Oxides by the Method of Anodic
Polarisation, by B. I. Sergin, O. A. Esin,
B. M. Lapinskikh,
RUSSIAN, per, Ak Nauk SSSR, Izvestiya Metallurgiya
i Gornoi Delo, 1964, No 2, pp 45-50
SIC TT-64-25409

Sci - Chem
May 67

326,653

The Influence of the Movement of the Liquid
Aluminium, and of its Wetting Power on the
Thermit Reduction of Oxides, by A. S. Dubrovin,
L. N. Rusakov, Yu, L. Pliner,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2,
pp 51-57
SIC

Sci - Eng
May 67

327,386

Estimating the Efficiency of Zone Refining
Processes, by V. N. Vigdorovich, Yu. P. Adler,
A. E. Vol'pian,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2, pp 63-68
SIC TT-64-25411

Sci - Eng
June 67

327,414

Investigation of Gas Combustion in Fluidised
Beds, as Applied to Heating Furnaces, by T. K.
Rubtsov, N. I. Syromyatnikov,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2, pp 69-74
SIC TT-64-25412

Sci - Mat
June 67

327,467

Appearance of Sub-Microscopic Cracks During
Static Deformation of Elastic Metals, by I. A.
Oding, Yu. P. Liberov,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2,
pp 85-91
SIC

Sci - Meta
June 67

327,542

Effect of Cyclic Temperature Changes During
Tensile Stress on the Microhardness Over
the Cross-Section of Technically Pure Iron,
by M. G. Lozinskii, V. Ya. Ferenets,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2, pp 97-
104
SIC

Sci - Meta
June 67

327,532

Dendritic Heterogeneity of Cast E 1401 Steel
and the Chemical Composition of the Carbides,
by P. M. Zhurenkov, T. V. Egorshina,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2,
pp 105-109
SIC

Sci - Meta
June 67

327,550

Non-Axial Segregation of Chromium-Nickel
Castings, by V. P. Stepanov, M. V. Pridantsev,
N. K. Kernich,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2,
pp 110-116
SIC

Sci - Meta
June 67

327,531

The Repeated Graphitisation of Spheroidal
Graphite Iron, by A. A. Baranov, E. D. Glebova,
V. N. L'nyanoi,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2,
pp 124-131
SIC

Sci - Meta
June 67

327,526

Determination of Gases in Copper Ingots,
by V. L. Zyazev, M. N. Furasheva.
RUSSIAN, per, Iz Ak Nauk SSSR Metallurgiyе
i Gornoe Delo, No 2, 1964, pp 132-136.
SIC

May 67 325,019

Electrical Conductance of Solid and Liquid
Chromium, Silicon, and Chromium Disilicide,
by B. A. Baum, P. V. Gel'd, S. I. Suchil'nikov,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2,
pp 149-155
SIC

Sci - Meta
June 67

327,537

Investigation of Creep of Beta Titanium
Zirconium Alloys in Torsion, by K. A. Osipov,
A. L. Sotnichenko,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2,
pp 161-163
SIC

Sci - Meta
June 67

327,535

Properties of Solid Solution Ternary Nb-Mo-Cr
Alloys at High Temperatures, by N. N.
Kurnakov, M. M. Savel'eva,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2, pp 164-
166
SIC TT-64-25402

Sci - Meta
June 67

327,539

Determination of the Methane Capacity of
Coals at Pressures up to 50 ATM. ABS. , by
E. G. Lamba, I. L. Ettinger, V. G. Adamov,
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya
Metallurgiya i Gornoe Delo, 1964, No 2, pp 188-
191
SIC

Sci - Mat
June 67

327,464

Fundamentals of Mining Science, by G. I. Mankovskiy,
5 pp.
RUSSIAN, per, ^{OTN} Iz Ak Nauk SSSR; Met i Gornoe Delo,
No 3, 1964, pp 179-182.
JPRS 26279

Sci - ES & Astron
Sep 64

266,908

The Interaction of Magnesium Oxide and Zirconium
Oxide With Refractory Components at High Tempera-
tures in Vacuo, by G. V. Samsonov, et al.
RUSSIAN, per, Iz Ak Nauk SSSR, Metall i Gornye
Delo, No 4, 1964, pp 106-113.
NASA TT F-9346

Sci-Chem
Jun 68

282,970

NCH-200 543

Field 11F

Kornilov, I. I.; Myasnikova, K. P.
THE PHASE DIAGRAM AND SOME PHYSICAL PROPERTIES OF NICKEL-RUTHENIUM ALLOYS. Dec 64, 21p
(foreign text included) 6 refs. INC-TRANS-64/267;
NLL-M.5637.
Order from NLL as M.5637

Trans. of Akademiya Nauk SSSR. Izvestiya, Metallurgiya i Gornoe Delo. n4 p159-65 1964.
An abridged trans. is available from SIC \$9.00 as TT-65-41079.

I. International Nickel Co.
(Mond) Ltd.,
London (England)

First All-Union Conference on the Physical Metallurgy
and Metal Physics of Superconductivity, by Yu. V.
Yefimov, 4 pp.

RUSSIAN, per, Iz AK Nauk SSSR, Metall i Gronoye
Delo, No 4, Jul/Aug 64, pp 176-175.

CIA/FDD-X-5528

Sci
Jan 65

Titanium and Zirconium Carbide Coatings
on Graphite, by A. L. Burykina,
T. M. Yevtushok.
RUSSIAN, per, Izv Akad Nauk SSSR,
Met i Gorn Delo, No 5, 1964, pp 147-149.
NASA TT F-9861

Sci-11/11
Mar 66

297,384

On the rate of all of Solid Particles in a Vibrating
Viscous Medium, by G. D. Krasnov.
RUSSIAN, per, Izv Akad Nauk SSSR Met Gornoe Delo, No 5,
1964, pp 64-179 - 184
CRL/T. 2363

Sci -
Sep 67

340, 09

Scientific Foundations for Developing Higher-
Strength Metals, by M. V. Pridantsev, 9 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR,
Metallurgiya i Gornoye Delo, No 6, 1964,
pp. 3-9.
JPRS 30811
*FTD.TT-65-1384

USSR
Sci-M/M
Jul 65

282,788

NCH-201 314

Field 11F

Pridantsev, M. V.
SCIENTIFIC PRINCIPLES OF THE DEVELOPMENT OF
METALLIC MATERIALS OF INCREASED STRENGTH,
1965, 19p (foreign text included) 3refs.
INC-Trans-85/75; NLL-M.5685.
Order from NLL as M.5685

Trans. of Akademiya Nauk SSSR, (Izvastiya) Metal-
lurgiya i Gornoe Delo, n6 p3-9 1964.
See also 'Translated or Abstracted Publications,' in
TT Vol. 14, No. 8.
Another trans. is available from CFSTI or ETC HC\$1.00,
MF\$0.50 as TT-65-31350.

I. International Nickel Co.
(Mond) Ltd.,
London (England)

NCH-201 313

Field 11F

Syul, T. L.; Kashin, V. I.; Polyakov, A. Y.;
Samarin, A. M.
THE DEOXIDIZING CAPACITY OF CARBON IN MOLTEN
NICKEL. Mar 65, 18p (foreign text included) 7refs.
INC-Trans-65/76; NLL-M.5888.
Order from NLL as M.5688

Trans. of Akademiya Nauk SSSR. Izvestiya Metallurgiya
i Gornoe Delo, n8 p75-80 1964.
See also 'Translated or Abstracted Publications,' in
TT Vol. 14, No. 8.

I. International Nickel Co.
(Mond) Ltd.,
London (England)

NLL/5828.4.1965
(5686)

NCH-201 312

Field 11F

Boronenkov, V. N.; Shurygin, P. M.; Shantarin, V. D.
KINETICS OF METAL DISSOLUTION IN MOLTEN
SULPHIDES. 1965, 18p (foreign text included) 9refs.
INC-Trans-65/77; NLL-M,5687.
Order from NLL aa M,5687

Trans. of Akademiya Nauk SSSR, Izvestiya Metallurgiya
i Gornoe Delo, no p97-102 1964.
See also 'Translated or Abstracted Publications,' in
TT Vol. 14, No. 8.

I. International Nickel Co.
(Mond) Ltd.,
London (England)

Investigation on Catalytical Conversion
of Isopropanol and of Cyclic Hydrocarbons
on Titanium Dioxide (Anatase) by Means of
a Differential Thermocouple, by A. A.
Balandin, A. A. Tolstopyatova, I. R. Konenko.
RUSSIAN, per, Akad Nauk SSSR. Izvestiya.
Otdeleni Khimicheskikh Nauk, No 12,
1960, pp. 2096-2102.
NTC 69-11543-07C

Sci-Chem

July 69

386,624

Investigations on the Physical and
Chemical Properties of WS₂ Catalysts.
Communication No 6. Porous Structure
and Chemical Composition of the Unmixed
WS₂ Catalyst, by S. M. Samoilov.
RUSSIAN, per, Akademiya Nauk SSSR.
Otdelenie Khimicheskikh Nauk. Izvestiya,
No 8, 1961, pp. 1416-24.

Sci-Chem
July 69

706 647

Catalytic Properties of Rhenium Sulfide
Earth Alkaline Catalysts in the Reaction
of Cyclohexane Dehydrogenation under
Pressure, by Kh. M. Minashev, M. A.
Nyazentseva, Yu. A. Afanaseva.
RUSSIAN, per. Akademiya Nauk SSSR. Otdelenie
Khimicheskikh Nauk Izvestiya, No 9, 1961,
pp. 1673-6.
NTC 69-11751-07D

Sci-Chem
July 69

386,644

Reaction of Metal Oxides and Sulphides with
Metal Chlorides, by G. C. Frents.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR
OTN Tekhnichiskiye Nauk, No 2, 1948, pp 235-8.
NLL RTS 2653

Sci - Chem
Oct 67

x324 342,716

The Dependence of the Heat Transfer From
Tubes on the Direction of Heat Flux and on
Natural Convection, by I. T. Alad'ev, et al.
RUSSIAN, per, Izvestiya Akad Nauk SSSR, OTN,
Tekhnicheskikh Nauk, 1951, No 1, pp 53-66.
NLL RPS 2644 (On Loan or Purchase)

Aug65

286,974

*Circuits with capacitor connection of bridge converters
of DC power transmission lines, by N. M. Melgunov.
RUSSIAN, per, Izvestiya Akad Nauk SSR, Otdeleniye
Tekhnicheskikh Nauk, No 6, 1957.
SDI 25652*

apr 72

Rupture Strength of Austenitic Welds Made Under a
Flux Submerged Arc, Under Argon and Carbide
Dioxide, by B. I. Medovar, et al. UNCL

RUSSIAN, per, IZ Ak Nauk SSSR, Otdel Tekh Nauk,
Met Topliva, No 6, 1958, pp 13-31.

EB 4804

115,644

Sci - Min/Wat
May 60

S-163/60

(NY-3716).

Concerning the Production of Single Crystals of
Germanium-Silicon Alloys, by I. M. Beolkurova,
M. G. Kikua, D. A. Petrov, A. D. Suchkova, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metal i Toplivo, No 1, 1959, pp 9-~~11~~ 12.

JPRS 2613

Sci - Min/Met

116,487

May 60

CERTAIN PROBLEMS IN THE CARBOTHERMIC REDUCTION
OF NIOBIUM PENTOXIDE, BY P. V. GEL'D,
G. P. SHVEYKIN, 12 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, OTDELENIYE
TEKHNICHESKIKH NAUK, METALLURGIYA I TOPLIVO,
NO 1, 1959, PP 44-49.

JPRS 18287

USSR
ECON
AR

63

225,700

Conditions for the Occurrence of Superplasticity in
Cast Eutectics, by A. A. Presnyakov, G. V. Starikov, 5 pp
UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metall
Toplivo, No 1, 1959, pp 75-77.

ACSI H-8790
ID 2163978

151,351

Sci - Min/Metals
May 61

<p>Priselkov, Yu. A., Sapozhnikov, Yu. A., and Tseplyayeva, A. V. PRESSURE OF SATURATED ALUMINIUM VAPOUR. [1961]. Order from FRI</p>	<p>61-22421</p>
<p>Trans. of Akad[emiya] Nauk SSSR. Otd[eleniye] Tekh- n[icheskikh] Nauk. Seriya: Met[allurgiya] i Toplivo, 1959, no. 1, p. 106-109.</p>	<p>I. Priselkov, Yu. A. II. Sapozhnikov, Yu. A. III. Tseplyayeva, A. V. IV. FRI Trans-143 V. Fulmer Research Inst., Ltd. (Gt. Brit.)</p>
<p>DESCRIPTORS: *Vapor pressure, *Aluminum, *Vapor</p>	<p>101875</p>
<p>(Chemistry--Physical, TT. v. 6, no. 1)</p>	<p>Office of Technical Services</p>

Investigation of the Microbiological Oxidation
of the Pyrite of Coal, by Z. M. Zarubina, N. N.
Lyalikova, Ye. I. Shmuk,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metal i Toplivo, No 1, 1959, pp 117-119.

Dept of Interior
TN7, B57, No 293

118,651

Sci - Min/Met

2018 244 M-1855

Jun 60

Structural Changes in Steel During Resistance Annealing,
by V. N. Gridnev, V. I. Trefilov. UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Met i
Toplivo, No 2, 1959. 62-67

*BISI 1732

Sci - Min/Met

May 60

NLU M 6367

Melting of Laboratory Specimens of Metal in
Vacuum or an Inert Gas by the Levitation
Technique, by A. A. Fogel'.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metal i Topliva, No 2, 1959, pp 24-34.

MB 4702

Sci - Engr - E Min/Met

Jan 60

105,427

Effect of Aluminum, Silicon, and Chromium on
Primary Structure of Low-Carbon Steel, by O. D.
Moldavskiy, A. P. Pronov.

RUSSIAN, par, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Met i Topliva, No 2, 1959, pp 40-42.

EB 4738

Sci - Min/Met

10,225

Nov 59

Effect of Molybdenum, Chromium, and Aluminum on
[Transverse] Strength of Hard Metals Bonded With
Nickel or Cobalt, by A. I. Baranov, et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Met 1 Topliva, NO 2, 1959, pp 43-47.

HB 4736

Sci - Min/Met

Nov 59

101,224

Study of the Distortion of Nickel During Creep,
by E. A. Minkitta, N. V. Pregbrajenskaya, et al.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk
SSR, Met i Toplivo, No 2, 1959, pp 46-55.

AEC-Downreay Tr No 100
(On loan only)

Sci
Nov 64

Structural Changes in Steel During Resistance
Annealing, by V. N. Gridnev, V. I. Trefilov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metal i Toplivo, No 2, 1959, PP 62-69.

BISI 1732

Sci - Min/Met

Sep 60

127,207

Fr-1 *UK-23

16 415

NIKOLAEVSKII V. N.

Motion of two miscible liquids in a porous medium

Mouvement de deux liquides miscibles dans un milieu poreux

*Izv. Akad. Nauk SSSR, Otdel. Tekhn. Nauk: Met. i Toplivo,
No. 2, 64-69 (1959)

Fr-1: R. 1261 - French

*UK-23: English

E u r a t o m

Use of the Ionized Stream of an Electric Arc for
Heating Materials, by I. D. Kulagin, A. V. Nikolayev.
UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metallurgiya i Toplovo, No 2, 1959, pp 78-81.

ATS-RJ-2720

*ATIC
ATS-72M39R

Sci - Phys
Dec 59

Telecom IC 42572 Item 8

Magnetic Characteristics of Sinter as Function
of Its Ferrous Oxide Content, by N. A. Gladkov,
et al.

RUSSIAN, per, Iz Ak. Nauk SSSR, Otdel. Tekh. Nauk,
Met i Topliva, No 2, 1959, pp 86-89.

BB 4752

Sci - Min/Mat

101, 229

Nov 59

<p>Kubichek, L. THE EFFECT OF CERTAIN ELEMENTS ON THE SURFACE TENSION OF ALUMINUM ALLOYS. [1951] [17]p. (6 figs. omitted) 17 refs. Order from OTS or SLA \$1.60</p>	<p>61-16115 L. Kubichek, L..</p>
<p>Trans. of <u>Akad[emiya] Nauk SSSR</u>, [Otdeleniye] Tekhn[icheskikh Nauk], <u>Izvesti[ya]</u>, <u>Met[allurgiya]</u> i <u>Toplivo</u> 1959, no. 2, p. 96-103.</p>	<p>103570</p>
<p>DESCRIPTORS: Surface tension. • Aluminum alloys. Alloys.</p>	<p>Office of Technical Services</p>
<p>(Metallurgy--Structural, TT, v. 6, no. 2)</p>	

12 541

US-14

SHTEIN V. K.

Light reflection patterns from tungsten crystals

Izv. Akad. Nauk SSSR, Otdel. Tekhn. Nauk, Metallurg. i

Topl., No. 2, 90-95 (1959)

RJ-2725. \$ 11.75 - English

E u r a t o m

Alloys of Metal Borides With Silicon, by K. I.
Frolov, G. V. Semenov, K. I. Frolov.

RUSSIAN. DOK. Iz Ak Nauk SSSR, Otdel Tekh. Nauk.
Met i Toplivo, No 2, MAR/APR 1979,
pp 117-121.

BB 4111

Sci - Chem, Min/Met

Nov 59

109,350

Condensation Method of Dust Separation for Precipitation of Mining Dust, by B. V. Deryagin, M. L. Mikhelson.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Met Topliva, No 2, 1959, pp 124-138.

BISI 1883

Sci- Engr

129,119

Oct 60

Ways of Obtaining High-Grade Concentrates From
Lean Magnetites, by D. S. G. Yevslovich. UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metall Toplivo, No 3, 1959, pp 7-12.

HB 4757

Sci - Chem

Dec 59

103,068

Mechanism of Desulphurization of Hot Metal
With Solid Lime, by M. I. Gromov, L. M. Toylev.
UNCL

RUSSIAN, per, Iz Ak. Nauk SSSR, Otdel. Tekh. Nauk,
Metall Toplivo, No 3, 1959, pp 25-28.

IB 4758

Sci - Min/Met

Dec 59

103,067

Effect of Primary Structure of Steel on Propensity
to Hot Tearing, by O. D. Moldavskiy, A. P.
Pronov. UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metall Toplivo, No 3, 1959, pp 47-51.

HB 4756

Sci - Min/Met

103069

Dec 59

Reticular Substructure of Ferrite Grains and Its
Effect on the Deformation and Failure of Engineering
Iron, by B. S. Kasatkin.
RUSSIAN, per, Iz Ak Nauk SSSR Otdel Tekh Nauk
Metal i Toplivo, No 3, 1959, pp 62-69.
BISI 3632

Sci - M/M
Jun 64

260,266

Mechanism of Oxidation of Some Ni-Cr-
Based Alloys, by D. V. Ignatov,
R. D. Shangunova, 10 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, OTN,
Metall i Toplivo, No 3, 1959, pp 83-87.
FI00061566
FTD-TT-65-1919

Sci - Materials
Oct 66

312,881

Change in Structure and Properties of Aluminum
and Its Alloys When Treated With Ultrasonic
Vibrations, by M. B. Al'tman, et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metal i Toplivo, No 3, May/June, 1959, pp 88-92.

HB 4776

Sci - Min/Met

Apr 60

114,259

Strength, Hardness and Tenacity of Cermet Tungsten-
Cobalt Alloys in Relationship to Their Composition
Structure and Testing Temperature, by N.A. Alekseyeva,
A. I. Baranov, G.S. Kreymar.

RUSSIAN, per Iz Ak Nauk SSSR, Otdel Tekh Nauk, Met. i
Toplivo, No 3, 1959, pp 92-98. CIA 9660855.

ATTC MCL 641

Sci - Min/Met; Chem

May 61
T60-17104
Ref DC-12

15-2, 421

Phase Diagram of a Tungsten-Rhenium System and the Properties of Its Alloys, by E. M. Savitskiy, M. A. Tytkina, L. I. Shishkina, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metal i Toplivo, No 3, 2 1959, pp 99-107. 9099898

AEC Tr-5023

Sci - Min/Metals
May 62

196,789

Determination of Titanium Oxide Inclusions,
by Yu. T. Lukashovich-Duvanova, V. A. Urazova.
UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metall Toplivo, No 3, 1959, pp 108-112.

HB 4754

Sci - Chem

Dec 59

103,455

On the Nature of the Roughness of a Polycrystal,
by L. B. Erlikh, 4 pp.

RUSSIAN, per, Iz. Ak Nauk SSSR, Otdel Tekh Nauk,
Metal i Toplivo, No 3, 1959, pp 134-135.

MDF E-105
9092697

Sci

171,689

Oct 61

Values of Activation Energy and Destruction of Aluminum
During Expansion, by K.A. Osipov, A.L. Sotnichenko.

RUSSIAN, per Iz Ak Nauk SSSR, Otdel Tekh Nauk, Met 1
Toplivo, No 3, 1959, pp 139-141. CIA 9660855

ATTC MCL 641

Sci - Min/Met; Chem

May 61
T60-17104
Ref DC-12

152,422

61-25710

Kubichek, L. and Mal'tsev, M. V.
THE EFFECT OF SOME ELEMENTS ON THE
SURFACE TENSION OF MELT ALLOY. [1961] 2p.
Order from ATS \$3.75 ATS-91N55R

Trans. of Akademiya Nauk SSSR. Otdel[ente]
Tekhnicheskikh Nauk. (Izvestiya) Metallurgiya i
Toplivo, 1959, no. 3, p. 144-145.

DESCRIPTORS: *Aluminum alloys, *Zinc alloys,
*Manganese alloys, *Magnesium alloys, Alloys,
*Surface tension, Metals, Lithium, Calcium,
Antimony, Strontium, Lead, Barium, Bismuth.

(Metallurgy, TT, v. 6, no. 12)

I. Kubichek, L.
II. Mal'tsev, M. V.
III. ATS-91N55R
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RT-4/60

17210

Office of Technical Services

Structure of Surface Layer on Uranium Obtained
by Electrosparking, by B. V. ~~Shamshin~~ Sharov. ~~Ural~~

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metall-Topolivo, No 3, 1959, pp 148-150.

HB 4755

Sci - Chem

103,456

Dec 59

S-100/00

(S-100/00)

Vapor Pressure of Oxides of Lithium, Boron,
Boron, Silicon and Lead, by An. N. Nesmeyanov,
L. P. Firson, 5 pp.

RUSSIAN, ibid., Iz Ak Nauk, Otdel Tekh Nauk, Metal
i Toplivo, No 3, 1959, pp 150, 151.

JPRS 2570

REC 100-TR-762 (L)

115,529

Sci - Min/Met
May 60

Accuracy and Correlation of Various Methods of
Determining Aerosol Concentration, by P. V.
Cherenkov.

RUSSIAN, per, Iz Ak Nauk, Otdel Tekh Nauk Metal
i Toplivo, No 3, 1959, pp 184-186. CIA 9071058

USDA

Sci - Chemistry
Sept 69

124,721

Effect of Small Additions of 'Modifiers'
on the Mechanical Properties of Alloy
Cast Steel, by M/ P. Braun.

RUSSIAN, per, Iz Ak Nauk SSSR,
Otdel Tekh Nauk, Met i Topliov,
No 4, 1959,

HB 4829

Sci - Min/Met
Feb 62

182.769

(DC-4776)

Aleksandr Aleksandrovich Skochinskiy,

RUSSIAN, per, Iz Ak Nauk SSSR - Otdel Tekh Nauk,
Metal i Topliva, No 4, 1959, pp 5-7.

*JPRS

USSR - Biog
4 Nov 60

Reduction of Iron Ores With Mixtures of Petroleum
Gas and Water Vapor, by M. Z. Enikeyeva, et al, 10pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metal i Toplivo, No 4, 1959, pp 32-41.

HB 4826
ATS RV-2721 n 63M42R

Sci - Min/Met

Sep 60

127,049

RUSSIAN to FRENCH
LTS TT-62-28218

Reaction Properties of Carbonaceous Materials,
Ore-Coal and Coal-Lime Pellets, by B. A.
Onusaitis, A. I. Petrovich.

RUSSIAN, per, Iz Ak Nauk SSSR, Otel Tekh Nauk,
Met i Topl, 1959, No 4, pp ~~44~~ 42-45.

HB 4827

Sci - Min/Met
Oct 61

15 372

Fr-1 * UK-23

MIKHEEV V. S.

Heat-resistance of Fe-Cr-Al alloy No. 2 at 600 to 1200°C

Propriétés réfractaires de l'alliage fer-chrome aluminium
n° 2 aux températures de 600 à 1200°C

* Izv. Akad. Nauk SSSR, Otdel Tekhn. Nauk: Met. i Topl., No. 4,
66-72 (1959)

Fr-1: R. 1235 - French

* UK-23: English

Abs.: NSA, 14, No. 6A, ref. 5598 (1960) - English

Investigations of High Temperature Creep of Nickel
Solid Solutions by Method of Hot Hardness, by K. A.
Osipov, (UNCL).

RUSSIAN, per, Iz Ak Nauk SSSR Otdel Tekh Nauk, Metal
i Topliva, No 4, 1959, pp 73-81. 9662621

*ATIC MCL-625/V.

Sci - Min/Metals

Apr 60

Ref: T60-12954

On the Accuracy of Parametric Dependences of
Long Lasting Strength, by V. N. Geminov,
I. A. Oding.

RUSSIAN, per, Iz Akad Nauk, SSSR Otdel Tekh,
Nauch Metal i Toplivo, No 4, 1959, pp 73-76.
9662621

ATIC MCL 625/1

Sci - Min/Metals

159, 526

Jul 61

Examination Into High-Temperature Creep of
Nickelic Solid Solutions by Hot-Hardness
Method, by K. A. Osipov, Tyan' De-Chen.

RUSSIAN, per, Iz Akad Nauk, SSSR Otdel Tekh,
Nauk Metal i Toplivo, No 4, 1959, pp 77-81.
9662621

ATIC MEL-625/1

Sci - Min/Metals

159, 528

Jul 61

Effect of Strain Cycling on the Structure of
Deformed Pure Metals, by Gal'perin, Kostyukova,
et al, 8 pp. M. Ya Ye. P.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metall i Toplivo, No 4, 1959, pp 82-87. 9691493

ACSI I-3866
ID 2253807
525th MI Gp

Sci / M/M
Feb 64

248,429

(NY-5000)

Properties and Treatment of Alnico Type Alloys,
by Ya. M. DOVGALOVSKIY, Ye. I. Sokolovskiy, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Met i Toplivo, No 4, Jul/Aug 1959, pp 99-105.

JPRS 5806

Sci - Min/Metals

Oct 60

129,608

Manufacture and Properties of Cermet Ferro-
Nickel-Aluminum Magnets, by P. A. Gladyshev,
V. L. Menslov.

RUSSIAN, per, Iz Akad Nauk, SSSR Otdel Tekh,
Nauk Metal i Toplivo, No 4, 1959, pp 106-110.
9652621

ATIC MCL-625/1

Sci - Min/Metals

Jul 61

159, 527

Metallic Magnetic Recording Media, by M. N. Krayevskaya,
11 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh. Nauk
Metal i Toplivo, No 4, 1959, pp 114-123.

CIA/FDD XX-1030
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Electron

ATS/RT-3361

Jul 61

161, 016

USIS INTERNAL USE ONLY

Thin Iron Powder Base Permanent Magnets,
by A. S. Eysurovich.

RUSSIAN, per, Iz Akad Nauk, SSSR Otdel Tekh,
Nauk Metal i Toplivo, No 4, 1959, pp 130-137, 134/
9552621

ATIC MCL-625/1

Sci - Min/Metals

159, 529

Jul 61