

ET
Cold Hardening and Recrystallization of E1617
Alloy, by Ya. M. Oshrimenko, M. S. Taibanova,
11 pp.

RUSSIAN, per, Iz VUZ Chernaya Metallurgiya, No 1,
1962, pp 95-102. 9667380

FED-17-62-1318

Sci - Min/Met
Jan 63

219,959

Electrotransfer Migration of Thallium and
Cobalt Admixtures in Liquid Metallic Solutions,
by D. K. Blashchenko, G. A. Grigoriyev, 11 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zavedni, Chern
Metal, Vol V, No 1, 1962, pp 124-130. 9217182

AEC-Tr-6077

Sci - Mat & Met
Jan 64

248,384

62-27309

Khoroshev, I. I.
MECHANISMUS DER ENTSTEHUNG VON GRAPHIT-
KEIMEN BEIM GLUEHEN VON WEISSEM TEMPER-
GUSS BEI NIEDRIGEN TEMPERATUREN (The
Mechanism of Graphite Nucleation During Annealing of
White-heat Malleable Iron at Low Temperatures).

12p.
Order from TIB \$2.10

Trans. in German of Izvestiya Vysshikh Uchebnykh
Zavedenii. Chernaya Metallurgiya (USSR) 1962, no. 1,
p. 171-176.

DESCRIPTORS: *Graphite. Heat treatment, *Iron
castings, Temperature.

(Metallurgy--Ferrous Metals, TT, v. 9, no. 11)

I. Khoroshev, I. I.
II. Technische Informations-
bibliothek, Hannover
(West Germany)

Office of Technical Services

Effect of Nonmetallic Inclusions on the Properties of
Malleable Cast Iron, by P. N. Bidulya, G. Yu. Shul'te.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met, No 1,
1962, pp 183-189.

HB 6152

Sci - M/M

Mar 64

250,799

Spreading of Slag Along the Surface of Molten
Metal, by S. I. Popel.

RUSSIAN, per, Izvest. VUZ-Chernaya Met. 1962,
No. 2, pp 9-17.
BISI 4014

278,616

Sci-Mat
Apr 65

Special Features of Control of the Thermal Conditions
in the Blast Furnace With Natural-Gas Injection,
by V. I. Loginov, G. G. Efimenko.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal,
No 2, 1962, pp 31-38.

HB 5565

Sci

~~Re~~ Jun 62

Formation and Behavior of Continuously Cast
Steel Sections in the Mold, by L. S. Rudoi.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
No 2, 1962, pp 51-55.

HB 5567

Sci-M/M
Apr 65

229,156

Stresses Due to Concentration Nonuniformity Near
a Growing Spherical Centre of a New Phase in Solid
Solutions, by L. N. Aleksandrov.

RUSSIAN, per, Iz Vysshikh Uchebnik Zaved Chern Metal,
Vol V, No 2, 1962, pp 118-122.

NLL Ref. 5828.4 1963 (5,385)
(loan)

Sci - Phys
Nov 63

242,325

Stability of Alloy Steels in Liquid Tin,
by P. L. Edel'man, V. V. Pokrovskiy.

RUSSIAN, per, Is Vysishikh Ucheb Zaved,
Chern Metall, No 2, 1962, pp 123-124.

HB 5564

Sci - Min/Met
May 262

196,302

Mineral Composition of Fluxed Sinter and Special
Features of Its Reduction. Communication I, by
E. I. Lashchinskaya, S. T. Rostovtsev.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal,
No 3, 1962, pp 12-23.

BB 5626

Sci - Chem

204,761

Jul 62

Uniformity of Particle Size of Blast Furnace Charge
and Utilization of Gas Flow, by V. E. Levchenko,
A. A. Gikmel'farb.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal,
No 3, 1962, pp 30-37.

RB 5628

Sci - Engr

204, 763

Jul 62

Study of the Kinetics of the Solidification
Process in the Axial Zone of Steel Ingots
by the Differential ~~Sound~~^{Sounding} Method, by
S. Ya. Skoblo,

~~RUSSIAN~~ RUSSIAN, per, Iz Vyssh Ucheb Zaved, Chern
Met., 1962, No 3, pp 53-59.

HB 5852

229,357

Sci-M/M
Apr 63

EFFECT OF RARE-EARTH ELEMENTS ON THE SURFACE TENSION
OF LIQUID IRON, BY A. F. VISHKAREV, ET AL.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED, CHERN
METALL, NO 3, 1962, PP 60-66.

HB 5600

SCI - MIN/MET
AUG 62

206,992

Automation of Electric Arc Furnace Steelmaking, by
V. M. Vinogradov.

RUSSIAN, per, Izvest VUZ Chern Met, No 3, March 1962,
pp 67-76.

HB 5652

Sci-Min/Met
Jan 63

219,385

Internal Design of the Bath in a Furnace
Melting 45 percent Ferro-Silicon, by
I. T. Zherdev.
RUSSIAN, per, Izv. VUZ Chern. Nat, No 3,
1962, pp 77-87.
BISI 5001

314,493

Sci - Mechanical, Industrial,
Civil, and Marine Engineering
Dec 66

Maksimov, S. K., Skakov, Yu. A. and others.
ROLE OF PHASE COMPOSITION DEPOSITS IN
MAGNETIC AGING OF MILD STEEL (Rol'Fazovogo
Sostava Vydelenii v Magnitnom Starenii Myagkoi Stali).
[1963] [8]p. (foreign text included) 6 refs.
Order from OTS or SLA \$1.10

63-16388

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Chernaya Metallurgiya (USSR) 1962, no. 3, p. 122-124.

DESCRIPTORS: *Steel, Phase studies, Iron alloys,
Nitrogen, Deposits, Chemical analysis, Magnetic
properties, Aging (Materials).

The connection between the intensity of the magnetic
aging by the absolute value of H_c and the phase compo-
sition of the deposit was established. The retarding of
the magnetic aging is not so much related to the ap-
proximation of the dimensions of the deposit to the
(Metallurgy--Ferrous Metals, TT, v. 10, no. 6)

(over)

63-16388

I. Maksimov, S. K.
II. Skakov, Yu. A.

Office of Technical Services

The Rate of Formation and Growth on Non-Metallic
Inclusions in Steel, by S. I. Popel'.
RUSSIAN, per, Izv. VUZ Chern. Met, No 4, 1962,
pp 5-13.
BISI 5314

Sci/Materials
Jun 67

327,580

The Effect of the Gas Flow on the Reduction Rate of
Iron Oxides, Part II, by I. A. Kopyrin, M. YXa. Ostroukhov.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met,
No 4, 1962, pp 29-36.
BISI 3842

CRL/T 1736

Sci-Engr
Feb 65

274,537

The Surface Energy of Certain Oxides,
Sulphides, and Selenides, by S. N. Zadumkin,
V. Kh. Khulamkhanov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 4, 1962, pp 112-114.

NLL Ref: 7831.9 1963 (167) (loan)

May 64

Mineral Composition of Fluxed Sinter and Some Special
Features of Its Reduction, Communication II, by
E. I. Leshchinskaya, S. T. Rostovtsev.

RUSSIAN, per, Izvest Vysshikh Ucheb Zaved Chern Met,
No 5, 1962, pp 5-15.

HB 5662

Sci-Min/Met
Mar 63

Blast Furnace Operating Experience at High
Driving Rates, by N. G. Makhaanek, A. S.
Kukarkin.

RUSSIAN, por, Iz Vysshikh Ucheb Zaved Chern
Met, No 5, 1962, pp 37-43.

HB 6049

Sci-Engr

243,457

Nov 63

The Influence of Barium Oxide on the Viscosity
of Blast Furnace Slags, by L. I. Bol'shakov,
N. I. Zhilo.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 5, 1962, pp 44-450.

BISI 3188

Sci - Chem
Mar 63

226,617

Electromigration in Liquid Binary Alloys
and Its Connection With Electroresistance, by
D. K. B.lashchenko, 15 pp.

RUSSIAN, per, Iz Vysshikh Ucheb-Zavodni,
Chern Metal, Vol V, No 5, 1962, pp 120-130.
9217211

ABC-Tr-6076

Sci - Mat & Met
Jan 64

248,380

Nitridation of Titanium by Use of Induction (HF)
Heating, by Yu. V. Grdina, et al.
RUSSIAN, per, Izvest. VUZ- Chem. Met., Vol 5,
No 6, 1962, pp 128-131.
HB 7984

sci/ materials
nov 69

395,441

Diffusion of Hydrogen in Carbon Steels, by
G. I. Batalin, 8 pp.
RUSSIAN, per, IVUZ Chern Met, Vol 5, No 5, 1962,
pp 131-133.
AEC/UCRL-Tr-10367

Sci/Phy
Mar 70

402,645

Recording Ultrasonic Inspection Results, by
Ya. I. Ioffe.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern
Met, No 5, 1962, pp 200-206.

HB 5924

Sci-Engr

Nov 63

243,450

Specific Heat of Iron Ores and Sinters, by
S. G. Bratchikov, G. A. Toporishchev.

RUSSIAN, par, Iz Vysshikh Ucheb ~~Skhenn~~
Chernaya Metallurgiya, Vol V, No 5, 1962,
pp 16-20.

BISI 3424
CRL/T. 1405

Sci - M/M
Jan 64

246, 376

Effect of Reduced Specific Coke Rates in Blast
Furnace Upon Blast Volume and Top Gas, by N. G.
Makhanek.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal,
Jun 1962, pp 21-25.

HB 5582

Sci - Min/Metals

Sep 62

210.863

Sup 136

Reducing Processes in the Sintering of Iron Ores,
by A. A. Sigov, V. A. Shurkhal.

RUSSIAN, per, Iz Vysshih Ucheb Zaved, Chern Metal, No. 6
Jun 1962, pp 26-31.

HB 5590

Sci - Chem

Sep 62

210,864

Sup 136

Mathematical Concept of the Period From Meltdown
to Tap in the Open-Hearth Furnace, by N. N. Dobrokhotoy.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met,
No 6, 1962, pp 39-50.
HB 5588

Sci - Math
May 64

258,353

Production of Alloys of Calcium and Magnesium With
Silicon, by A. S. Mikulinskiy, I. V. Ryabchikov.

RUSSIAN, per, Izvest Vysshikh Ucheb Zaved Chern Met,
Jun 1962, No 6, pp 344-350.

HB 5592

Sci-Min/Met
Mar 63

Thermodynamics of Fe-Cr Alloys, by B. P. Burylev.
RUSSIAN, per, Izv VUZ Chern Met, No 6, 1962,
pp 5010.
*CFSTI TT 70-58196

Sci-Chem
June 70

On the Problem of Reducibility of Blast-Furnace
Sinter, by N. L. Gol'dshtein.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met,
No 7, Jul 1962, pp 37-45.

HB 5775

Sci-Min/Met
Mar 63

Hanging of Melt in Blast-Furnace Stock Column,
by A. S. Kukarkin, B. I. Kitaev.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met, 1962,
Dec 1962, pp 20-28.

*HB 5882

Sci - M/M
Apr 63

Segregation of Sulfur in Large Rimmed-Steel Ingots,
by B. I. Zayakin, A. M. Bigeev, et al.

RUSSIAN, per, Iz Vyssh Ucheb IX Zaved Chern Met,
No 7, 1962, pp 62-70.

HB 5884

Sci-Materials & Metallurgy
July 63

235,800

Effect of Remelting of Steel on its Contam-
ination by Titanium Nitride, by Yu. G.
Gurevich.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern
Met, No 7, 1962, pp 71-77.

HB 5885

Sci- MEM
May 63

729,839

Vacuum Treatment of Ball-Bearing Steel
Produced Without Ferrosilicon Addition,
by I. A. Baranov, et al.
RUSSIAN, per, Izvest. VUZ-Chern. Met.
No 7, Jul 1962, pp 78-85.
HB 6493

USSR
Sci/M&M
May 65

278,509

Desulfurization of Steel by Injection of
Powdered Reagents, by A. S. Tumarov, A. Kh.
Urazgil'deev, et al.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
Vol VI, No 7, 1962, pp 86-96.

HB 5886

Sci-Materials & Metallurgy
July 63

235804

Effect of Nitrogen and Boron Upon the Properties
of Austenitic Stainless Steel, by A. A. Yaskovich,
A. N. Samarin.

RUSSIAN, per, Is Vyssh Ucheb Zaved Chem Mot,
No 7, 1962, pp 97-102.

HB 5881

Sci-M8M
May 63

229,830

Unequal Deformation Which Results When Rolling
Bimetal, by I. M. Pavlov, Yu. N. Ledenev.

RUSSIAN, per, Investiya Vysshykh Uchebnykh Zavedenii
Vostochnaya Metallurgiya, No 7, 1962, pp 110-113.

BIET 3449

Sci - N/M
Dec 63

243,530

Electrotransfer Migration of Nickel Admixtures
in Smelts Molten Metals, by G. A. Grigoriyev,
D. K. Belashchenko, 5 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved. Chern
Metall, Vol V, No 7, 1962, pp 137-139. 921.7194

AEC-Tr-6078

Sci - Mat & Met
Jan 64

248,776

Intensification of the Processes in the Blast-Furnace Hearth, by V. I. Loginov.

RUSSIAN, per, Iz Vysishikh Ushab Zaved, Chern. Metal., No 8, 1962, pp 21-28.

HB 5878

Mat & Met
Oct 63

345, 157

ON THE PROBLEM OF THE EFFICIENCY OF THE
OXYGEN CONVERTER STEELMAKING PROCESS, BY
I. I. KOBLYAKOV, 10 PP.

RUSSIAN, PER, IZVESTIYA VYSSHIKH USHEBNIKH
ZAVEDENIY. CHERNAYA METALLURGIYA, NO 8,
1962, PP 200-206.

JPRS 16417

USSR
ECON
SCI - M/M
DEC 62

217,151

UTILIZATION OF NATURAL GAS IN FERROUS
METALLURGY, BY XX YE. G. KHRIPKO, V. P.
ADRIANOVA, ET AL, 12 PP.

RUSSIAN, PER, IZVESTIYA VYSSHIKH UCHEBNYKH
ZAVEDENIY. CHERANYA METALLURGIYA, VOL V, NO 9,
1962, PP 5-9.

JPRS 16587

USSR

ECON

SCI - M/M DEC 62

218,322

Effect of Gas-Phase Composition on the Reduction
Kinetics of Fluxed Sinter, by P. N. Ostrik,
S. T. Rostovtsev.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
No 9, 1962, pp 17-25.

HB 5755

Sci-M/M

Aug 63

343,502

Investigation of the Magnetic Roasting
Process of Kerchensk Tobacco Ore, Part I, by
A. N. Pokhvisnev, Yu. S. Yusfin.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 9, 1962, pp 49-53.

NLL RTS 2361
(loan copy)

Jul 64

Flow of Slag in Blast Furnace Through Coke
Packings Counter Current to Gas, by
S. V. Shavrin, I. N. Zakharov, B. V. Ipatov.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
No 9, 1962, pp 54-65.

HB 5795

Sci-M/M
Apr 63

229,380

Thermodynamics of the Deoxidation of Steel by Means
of Lanthanum, Cerium Praseodymium and Neodymium, by
G. Kinne, A. F. Vishkarev.

RUSSIAN, per, Izvest Vyssikh Ucheb Zaved Chern Met,
No 9, sep 1962, pp 92-98.

HB 5754

Sci-M/M
Mar 63

Effect of Oxygen on Desulphurization of Liquid
Steel, by A. I. Kondrat'ev, A. M. Savashin.

RUSSIAN, par, Iz Vysshikh Ucheb Zaved Chern
Met, Vol V, No 9, 1962, pp 99-104.

BISI 5441

Sci-M/M

Jan 64

248,764

Effect of Tubular ~~Ext~~ Electrodes on the Thermal Working
of the Steelmaking Arc Furnace, by N. V. Okorov,
L. E. Nikol'skiy, et al.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met,
No 9, 1962, pp 105-110.
HB 5753

Sci - M/M
Apr 64

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STRUCTURAL CHANGES DURING HARDENING AND
RECRYSTALLIZATION OF MOLYBDENUM, BY
A. P. GULYAYEV, S. S. GORELIK, ET AL, 7 PP.

RUSSIAN, PER, IZVESTIYA VYSSHIKH UCHEBNYKH
ZAVEDENIY, CHERNAYA METALLURGIYA, NO 9,
1962, PP 160-164.

JPRS 17306

SCI - CHEM, M/M

JAN 63

220,916

COMBUSTIBILITY OF TITANIUM AND ITS ALLOYS,
BY N. V. MANUYEV, 8 PP.

RUSSIAN, PER, IZVESTIYA VYSSHIKH UCHEBNYKH
ZAVEDENIY, CHERNAYA METALLURGIYA,
NO 9, 1962, PP 197-205.

JPRS 17306

SCI - CHEM, M/M
JAN 63

220,917

Experiments on the Top Blowing of Metal Baths,
Based on Models, by V. I. Baptizmanskiy.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
No 10, 1962, pp 31-41.

HB 5784

Sci-M/M

243,529

Nov 63

Basic Factors Governing the Melting Loss of
Chromium in High-Chromium ~~Stk~~ Steel Baths During
Oxygen Lancing, by E. I. Kadinov, S. I. Khitrik.

RUSSIAN, per, Iz Vyssh Ucheb Zaved, Chem Met,
No 10, 1962, pp 50-57.

HB 5778

Sci- M & M
May 63

329,846

Use of Thermoelectric Method for Investigat-
ing the Processes Taking Place in Austenitic
Steels, by A. P. Shadrinova.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern
Mat, No 10, 1962, pp 107-110,

HB 5779

Sci-MRM
May 65

229,832

Effect of Cold Treatment of Tool Steels Upon
Their Mechanical Properties, by Yu. G. Vyshkovskiy.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
No 10, 1962, pp 111-~~112~~118.

HB 5780

Sci-M/M
Apr 63

229, ~~357~~ 364

Possibilities of Improving the Red Hardness of
High-Speed Steel, by N. A. Nesterov, Yu. V. Grdina.

RUSSIAN, per, Is Vyssh Ucheb Zaved Chern Met, No 10,
1962, pp 125-130.

HB 5781

Sci- MM
May 63

229,813

Supercooling of Magnesium-Treated Cast Iron, by
A. Ya. Khrapov, V. I. Bedarev.

RUSSIAN, per, Izvest Vyssikh Ucheb Zaved Chern Met,
No 10, Oct 1962, pp 131-136.

HB 5782

Sci-M/M
Mar 63

Injection of Compressed Air or ~~MM~~ Oxygen into
The Open-Hearth Bath for Automatic Control of
The Carbon Elimination Process, by M. Ya. Med-
shchinskii.

RUSSIAN, ~~pat~~, Invent VOZ, Chern Met, No 10,
1962, pp 166-170.

EB 5783

Sci-M/H
Jan 64

246, 346

Mechanism of the Low-Temperature Reduction of
Ferric Oxide, by L. N. Rudenko, S. T. ~~Rostovtsev~~
Rostovtsev.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
No 11, 1962, pp 5-11.

HB 5827

Sci- MM
May 63

229,938

Thermodynamic Conditions for the Formation of
Aluminum Nitride in Liquid Iron, by ~~I~~
V. F. Isnev, A. N. Morozov.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern
Met, No 11, 1962, pp 57-60.

HB 5828

Sci-M/M
Apr 63

229,365

Phase Composition of Slag in Basic Arc Furnace
Melting of Stainless Steels, by E. I. Kadinov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 11, 1962, pp 61-69

~~HB 594~~

Sci - M/M
Mar 63

HB 594

226,668

Batulin, G. I. and Tkachenko, M. S.
ON THE QUESTION OF NITRIDING OF MANGANESE
[1963] 6p 5refs
Order from OTS or SLA \$1.10 63-20130

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
[Chernaya Metallurgiya] (USSR) 1962, no. 11, p. 76-79.

DESCRIPTORS: *Manganese, *Hardening, Particle
size, Ammonia, Reaction kinetics, Metallography,
Phase studies.

Investigation of the influence of manganese metal par-
ticle size, temperature and feed gas velocity on the
course of the nitriding process in a stream of ammonia
has shown that feed gas velocity, under conditions of
these tests, has no effect on the reaction rate. A re-
lation between manganese particle size and the gain in
charge weight was developed. It was shown that the
(Metallurgy--Nonferrous Metals, TT, v. 10, no. 12)
(over)

63-20130

I. Title: Nitriding
I. Batulin, G. I.
II. Tkachenko, M. S.

Office of Technical Services

Study of Cooling of Wire Rod From Continuous
Rolling Mill, by V. I. Gubinskiy.

RUSSIAN, Ser, Iz Vysshikh Uchet Zaved Chern Metal,
No 11, 1962, pp 128-132.

HB 5835

Sci - Engr
Mar 63

226,469

Special Features in the Manufacture of Thin Walled Tubes
of Cold Reducing Machines, by Yu. F. Shevakin,
F. S. Seidaliyev.

^{Nov}
RUSSIAN, per, Invest VUZ Chern Met, 1962, pp 133-139.

BIBI 3257

Sci - M/M
Sept 63

345,128

Residual Stresses in Surface of Steels Impreg.
With Various Alloying Elements by G. N. Dubinin,
L. Griboevskiy.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metel,
No 11, 1962, pp 170-174.

HB 5836

Sci - M/M, Engr
Mar 63

226,670

Study of Physico-Chemistry of the Ternary
 $\text{Cr}_2\text{O}_3\text{-ZrO}_2\text{-SiO}_2$ System, by V. F. Smachnaya.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 11, 1962, pp 191-195.

HB 5837

Sci - Chem, Phys
Mar 63

226671

Comparative Analysis of the Technical-Economic
Indices of Open-Hearth Plants With 500- and
250-M. Ton Furnaces, by V. A. Komenets, Yu E.
Tuntov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 11, 1962, pp 202-208.

HB 5854

Sci - Engr
Mar 63

226,664

Hold-Up of Molten ~~MAKRYLAKS~~ Materials in the
Blast-Furnace Stock Column, by A. S. Kukarin,
B. I. Kitayev.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met,
No 12, 1962, pp 20-28.

HB 5882

Sci-Engr

Nov 63

243,455

Investigation of Gas Flow in the Blast Furnace with
the Use of Helium, by I. A. Kopyrin et al.

RUSSIAN, Iz Vysishikh Ucheb Zaved, Chern. Metal.,
No 12, 1962, pp 29-40

HB 5879

Mat & Met
Oct 63

345,155

Special Features of the Structure of the Bath of
a Rotary Ferrosilicon Furnace, by I. T. Zherdev,
et al.

RUSSIAN, per, Iz Vysishikh Ucheb Zaved, Chern.
Metal., No 12, 1962, pp 61-65.

HB 5819

Mkt & Met
Oct 63

345, 156

On the Effect of Phosphorus Upon the Temper
Brittleness of Steel, by V. N. Svechnikov,
S. S. Golubev.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern
Met., No 12, 1962, pp 117-119.

HB 5871

Sci-MAM
May 63

229,831

Structural Characteristics of High-hardness Twin-Layer Rolls From Chromium-Nickel Cast Iron, by A. B. Krivosheev, Y. N. Taran.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met, Vol V, No 12, 1962, pp 131-137.

N

NLL Ref. 5828.4 1963 (5,379)
(Loan)

Sci - M/M
Nov 63

242,271

THE MECHANISM OF CRYSTALLIZATION OF RIMMING STEEL
DURING CONTINUOUS CASTING, BY V. B. GANKIN,
G. N. OYKS, 12 PP.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED, CHERNAYA
METALLURGIYA, NO 1, 1963, PP 34-41.

JPRS 18710

SCI - MAT-MET

APR 63

228,383

DEVELOPMENT OF IMPROVED DESIGNS OF NOZZLES AND
STOPPED HEADS FOR ~~XXXXX~~ CONTINUOUS CASTING OF
STEEL, BY YE. I. ISAYEV, I. T. KUSHNAREV, 8 PP

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED, CHERNAYA
METALLURGIYA, NO 1, 1963, PP 42-48.

JPRS 18710

SCI - MAT-MET

48 5909

APR 63

228,354

Effect of Some Elements on the Seizing of Steel
During Hot Working, by G. I. Bel'chenko,
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