

The Effect of Fibre Orientation on the Fatigue
Strength of Hardened Steel, by A. S. Sheyn,
14 pp.

RUSSIAN, per, Metal i Termich Obra Metallov,
No 12, 1957, pp 61-66.

NRC C-3179

Sci

OTS, Vol III, No 6

126,930

Sep 60

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Sci - Min/Nat
Jan 60

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Effect of Ultrasonic Vibration on the Structures of
Eutectic Alloys, by V. V. Zabolneyev-Zotov, G. I.
Pogodin-Makheyev.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
No 1, Jan 1958, pp 2-6.

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Sci - Min/Met

Apr 58

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Influence des Ultrasons sur la Texture des
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the Texture of Eutectic Alloys), by V. V.
Zabolev-Zotov, G. I. Pogodin-Alexeyev, 17 pp.

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No 1, 1958, pp 2-6.

Reverse Trans
CEA Tr-R-957

Sci
26 Apr 61

X-Ray Study of the System Vanadium Carbide (VC)-
Tungsten Carbide (WC), by M. A. Gurevich, B. F.
Ormont.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
No 1, Jan 1958, pp 7-10.

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Sci - Man/Met

Apr 58

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Phase Diagram of Chromium-Mobium System, by V. N. Eremenko, G. V. Zudilova, L. A. Gayevskaya.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov, No 1, Jan 1958, pp 11-16.

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\$4.60

Sci - Min/Met

Apr 58

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Effect of Nitrogen on the Kinetics of Austenite
Grain Growth and the Actual Austenite Grain Size,
by A. M. Turasov.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
No 1, 1958, pp 17-20.

Henry Bratcher *T-4118*
\$4.40

Sci - Eng/Met

Jun 58

66, 119

Molten Metals or Alloys as Heat-Treating Media for Steel, by A. E. Geraschenko, A. P. Gulayev, Z. S. Lameva.

RUSSIAN, per Metallovedeniye i Obrabotka Metallov, No 1, 1958, pp 21-24.

Henry Bratcher, *[Signature]*
\$4.80

Sci - Min/Met

Jan 58

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Heterogenite de la Zone de Fusion des Joints de
Soudure, (Heterogeneity of the Fusion Zone of
Welded Joints), by L. S. Livishits, L. P.
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Metal, No 1, 1958, pp 26-29.

Reverse Trans
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Sep 59

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Composition Variations in Welds, by L. S. Liv-
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RUSSIAN, per, Metall i Obra Metallov, Jun, 1958,
No 1, pp 26-28.

Brutcher 4120

Sci - Min/Met

Jun 59

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Changes in Properties of Ni-Cr Alloy K1765 for
Stationary and Propulsion Turbines During Heating
For Up to 10,000 Hours, by W. Z. Tsaitlin, G. G.
Morozova.

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Sci - Min/Met, Engr

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No 1, 1958, pp 37-38.

Henry Bratcher
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Sci - Min/Mat

Jun 58

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Effect of Preceding Cold Working /and Annealing/
Upon Initial Stage of Plastic Deformation and
/Subsequent/ Recrystallization of Iron, by Y.a. R.
Rausin.

RUSSIAN, per, Metallov i Obrabotka Metall, No 1,
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Sci - Phys, Min/Met

Jun 58

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Grain Growth and Surface Decarburization in
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Karker, M. G. Kogan.

RUSSIAN, par, Metallovedenie i Obrabotka Metallov,
No 1, 1958, pp 46-49.

Henry Bratcher *4.125*
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Sci. & Eng. Mater

Jun 58

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Procedure for Working Out the Heating Conditions
for Steel on the Basis of Scale Thickness, Bark
Thickness, and Grain Size, by I. F. Golovnev.

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Henry Bratcher 4126
\$3.90

Sci - Min/Mint
Oct 58

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Relief of Stresses in Quenched 1.20% Carbon
Tool Steel U12A, by A. A. Gol'denberg.

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No 2, Feb 1958, pp 6-11.

Brutcher Tr 4146
\$4.90

Sci - Min/Met

Aug 58

68,206

Long Time Strength of Welds at High Temperatures,
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HB-4147

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Sep 59

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Characteristics of Fatigue Failure of Alloys at High
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Sci - Min/Met
Jul 58

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Mechanical Properties of Some Ultra High Strength
/Structural/ Steels, by I. V. Paisov, So Yun Ho.

RUSSIAN, per, Metall^{ov} i Obrabot^{ka} Metall, No 2, 1958,
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Sci - Min/Met

Jun 58

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Induction Heating at 50 CPS of Heavy-Section Parts,
by V. V. Aleksandrov.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
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Sci-M/M
Mar 63

Recrystallization of Low Carbon Steel During Rapid
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RUSSIAN, per, Metal i Obra Metallor, No 2, Feb
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Henry Bratcher 4150

\$7.80

Sci - Engr

Oct 58

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Mechanical Properties of Electrodeposited Copper as
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Sci - Min/met
Jul 58

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US JPRS/DC-L-538

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Eco - Ferrous Metallurgy
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67, 264

Effect of Strain Hardening on the Mechanical
Properties of Carbon Steels, by I. V.
Kudryavtsev.

RUSSIAN, par, Metallov Odra Met., Mar 1958,
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Henry Bratcher 4171
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Sci - Engr
Oct 58

74, 853

Fatigue Strength of Austenitic Steels Exposed to
Corrosive Gases at High Temperatures, by A. V.
Ryabchenko, M. L. Maslennikovskaya

RUSSIAN, *per*, Metal i Obrabot Metallov, No 3,
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Sci - Min/met
Jul 58

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A. V. Ryabchenkov, E. L. Kazimirovskaya, 12 pp.

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Reverse trans
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Nov 59

X-Ray Study of Lattice in Cold-Drawn Steel Wire,
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RUSSIAN, per, Metal i Gore Metallov, No 3, Mar
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Henry Bratcher 4172

\$5.75

Edl - Kapp
Oct 58

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Sci - Min/Met
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Sci - Min/met
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801 - KCM/Mat
Oct 58

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Temporary Changes in Mechanical Properties [of
Steel] During Phase Transformations, by V. G.
Vorob'yev.

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Henry Bratcher 4175
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Sci - Min/Mat

Jan 59

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Study of Alloys of Magnesium With Various Rare-
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RUSSIAN, *Metall. i Obrabot. Metallov*, No 3,
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Brutcher Tr 4166
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Sci - Min/met
Jul 58

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Study of Magnesium Alloys With Various Rare
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Sep 59

Surface Treatment of 14-14 Austenitic Steel to
Improve Its Resistance to Intergranular Corro-
sion, by Yu. N. Gribodov.

RUSSIAN, per, Metal i Obra Metall, No 3, Mar
1958, pp 42-48.

Henry Bratcher 4176
\$5.85

Sci - Min/Met
Oct 58

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RUSSIAN, per, Metal i Odra Metallov, No 3,
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Henry Bratcher 4177

\$4.85

Sci - Min/Mat
Oct 58

74, 928

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by I. P. I. Rusin.

RUSSIAN, per, Metal i Obra Metallor, No 3,
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Henry Bratcher 4278

\$5.60

Sci - Engr
Oct 58

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Henry Bratcher #179
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Sci - Min/Net
Oct 58

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Chromized Steel of Higher Corrosion Resistance, by
N. F. Vyshnikov, A. N. Popandopulo.

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1958, pp 60-61.

Butcher Tr 4169
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Sci - Min/met
Jul 58

66,277

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RUSSIAN, 1957, Metal Obrab Metallov, No 4, 1958,
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HD 4180

Sci - Chem

Jan 60.

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Strain Hardening, Softening, and High-
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RUSSIAN, per, Metal i Obrabotka Metallov,
No 4, Apr 1958, pp 7-9.

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Sci - Min/Met

Aug 58

68, 202

Magnetometric Study of Electric Tempering of Steel,
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RUSSIAN, per, Metal i Obra Metalluy, No 4, 1958,
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HB 4182

Sci - M/M
Apr 64

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Effect of High-Temperature Aging on Structure and Properties of 18% Cr, 8% Ni Steels, by Kh. I. Cheskis, S. I. Vol'fson.

RUSSIAN, per, Metal i Obrabotka Metallov, No 4, Apr 1958, pp 16-25.

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\$9.35

Sci - Min/Met

Aug 58

68,194

Effect of Relative Contents of Sodium
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Plated, by I. I. Moroz, N. T. Kudryavtsev.

RUSSIAN, per, Metal i Obrabotka Metallov,
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Sci - Chem

Aug 58

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Investigation of the Mechanical and Magnetic
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RUSSIAN, per, Metal i Obrat Metallov, No 4,
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Sci : Chem; Phys
May 60

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Sci-Mat
Sep 68

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Forging Practice and Quality of Steel for Steam-
Turbine and Turbogenerator Rotors, by H. V.
Tikhomirov.

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Henry Bratcher 4186
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Sci - Engr

Apr 59

84, 296

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No 4, Apr 1958, pp 44-45.

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Sci - Min/Met

AUG 58

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Sci - Engr

Apr 61

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Effect of Magnesium on the Graphitization of
White Cast Iron, by A. V. Chernovol, Yu. N.
Taran.

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Sci - Chem

Aug 58

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Uses of High-Frequency Currents, by S. L. Rustem.
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Sci -Phys
May 64

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Change in Strength Coefficient Due to Martensite
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Gaidukov, V. D. Sadovskiy.

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Henry Bratcher 4214
\$4.65

Sci - Min/Met

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Jan 59

Calculation of Springback of Bimetallic Bushings
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Pruehanskiy.

RUSSIAN, per, Metal i Obra Metallov, No 2,
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Sci - Mkt/Mkt

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May 60

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1958, pp 16-20.

Brutcher Tr 4217
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Sci - Metall

Sep 58

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**Study of Austenitic Chrome-Manganese Steels,
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**RUSSIAN, per, Metall i Obrn Metallov, No 5,
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**Henry Bratcher 4219
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Sci - Min/Mat

Jan 59

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Effect of Boron on Austenite Grain Size in Steel,
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RUSSIAN, per, Metal i Obrab Metallov, No 5,
May 1958, pp 28-30.

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Henry Bratcher 4220

\$4.75

Sci - Min/met

Chem

Oct 58

74, 952

Protection of Springs of Steel EI 723 From High-
Temperature Oxidation, by T. I. Volkova, Yu. B.
Griboyedov.

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Henry Bratcher 4/22
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Sci - Engr

Jan 59

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Effect of Technological Factors on the Depth of
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Perninacov, A. G. Yakhontov.

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May 1958, pp 40-43.

Henry Bratcher 4223

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Oct 58

74, 941

Longer Life of Sleeves of Backing-Up Rolls for
Cold-Rolling Mills, by N. M. Kobrin, K. V.
Shishokina.

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Henry Bratcher 4224.
\$4.40

Sci - Engr

Jan 59

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Aluminizing of Iron With Aluminum Monochloride
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RUSSIAN, per, Metal i Odra Metallov, No 5, May
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Bruthcer Tr 4225
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Sci - ~~Handbook~~
Sep 58

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Experimental Research on Some Aspects of Structural Creep Theory, by V. S. Ivanova, L. K. Gordiyenko,

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Econ - Ferrous metallurgy

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Non-Uniformity of Creep, by M. G. Losinskiy,
et al.

RUSSIAN, per, Metal i Obra Metallov, No 6,
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Henry Bratcher 1285
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Sci - Chem

May 59

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Effect of High-Temperature Heating on Some
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HB 4246

Sci - Min/Met

Apr 61

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US JPRS Tr L-572-B

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Econ - # Ferrous Metallurgy
Jan 59

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1780-M

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Resistance of the E1437 Alloy, by S. T. Kishkin,
A. A. Klypin, A. M. Sulima, 5 pp.

RUSSIAN, per, Met i Obrabotka Metallov, No 6,
Moscow, 1958, pp 18-20.

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Econ - Ferrous metallurgy
Jan 59

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in Labyrinth Seals of Steam Turbines Increased
to 640°C (1185°F), by T. I. VIKH Volkova.

RUSSIAN, per, Metal i Oboz Metallov, No 6,
1958, pp 21-25.

Henry Bratcher 4249
\$2.80

Sci - Min/Met

May 59

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The Chemistry Concerning of Amorphous Solids at
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Blizner, A. V. Rybchenkov, 10 pp.

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1958, pp 25-32.

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Sci - Minerals, Metals
Jan 59

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1780-M

Protective Coatings of Heat Resistant Alloys, by
V. A. Parfenov, 7 pp.

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Sci - Minerals, Metals
Jan 59

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Sigma Phase in Austenitic Steel K1448, by
S. I. Uryupina, A. P. Likina.

RUSSIAN, per, Metal i Odra Metallor, No 6,
Jun 1958, pp 37-41.

Henry Bratcher 4252
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Sci - Min/Met
Oct 58

74,948

Creep-Resisting Stainless Steels for Steam Power
Plants Operating at up to 600°C (1110°F), by
E. S. Ginzburg.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
No 6, 1958, pp 47-52.

HB 4254

Sci-Min/Met
Mar 63

Corrosion of Titanium-Base Alloys by Gases
When Heated in Furnaces or by Induction, by
V. A. Yakovlev, Ya. I. Spektor.

RUSSIAN, per, Metal i Obra Metallov, No 6,
1958, pp 52-56.

HB 4255

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Sci - Min/Net

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Creep-Resisting Steels and Alloys, by A. P.
Gulyayev.

RUSSIAN, per, Metallov Obra Mez, Jul 1958, p 2.

Henry Bratcher 4274
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Sci - Min/Met
Oct 58

74, 856

Kinetics of Isothermal Austenite Transformation
in Plain Carbon Steel Being Induction Heated, by
I. N. Kidin, Yu. A. Bashnin.

RUSSIAN, per, Metali Obrn Metallov, Jul 1958,
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*Henry Bratcher
\$4.25

Sci - Engineering, Minerals/Metals
Jan 59

79,937

Kinetics of Isothermal Transformation of Austenite
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by I. N. Kindin and Yu. A. Bashnin.
RUSSIAN, per, Metallovedenie i Obrab Met., No 7,
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HB 4275

Sci-Mat
Apr 68

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Solution of Graphite in Austenite, by K. P.
Bunin, A. A. Baranov,

RUSSIAN, par, Metall i Obrab Metallov, No 7,
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Henry Bratcher 4276
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Sci - Chem

Jan 59

78,632

Effect of Cathodic and Anodic Polarization on
Rate of Stress Corrosion of Austenitic Stainless
Steel, by V. V. Romanov, V. V. Doholyubov.

RUSSIAN, per, Metal i Obrabotkiv, No 7, 1958,
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Henry Brubaker 4264
\$3.35

Sci - Chem

Jan 59

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Aging of Creep-Resisting Nickel-Base Alloy NI437B
Accelerated by Action of Ultrasound, by V. S.
Ermakov, E. A. Al'tan.

RUSSIAN, per, Metallov Odra Met., Jul 1958, p 22:

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Henry Bratcher
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Sci - Min/Mat
Oct 58

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Dispersion of Ferromagnetic Precipitate in Austenite
Compositions, Studied by Demagnetization Curves, by
N. I. Ermin.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov,
No 7, Jul 1958, pp 27-30.

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Sci-Min/Met
Mar 63

Ductility of Creep-Resisting Alloys in Dependence
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Rastegayev.

RUSSIAN, per, Metallov Odra Met., Jul 1958, p 30.

Henry Bratcher 4280
\$3.80

Sci. - Min/Art
Oct 58

74, 850

Structure and Properties of Alloys [and Steels]
After Vibrational Working, by U. N. Shestakov,
M. Ya. Karnov.

RUSSIAN, per, Metal i Obra Metallov, No 7, 1958,
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Henry Bratcher 4281
\$3.25

Sci - Min/Met

Apr 59

84,263

Nitriding of High-Strength Magnesium-Treated Cast
Iron, by Yu. M. Lakhtin, D. S. Pinchuk.

RUSSIAN, per, Metallov Odra Met, Jul 1958, p 39-40

Henry Bratcher 4282
\$2.75

Sci - Min/Met
Oct 58

74, 851

Improved Heat Treating Practice of Cold Rolled
of 0.90% C, 0.65 Cr, 0.22 V Steel, by E. E.
Brainin.

RUSSIAN, per, Metallov Oora Mat, Jul 1958,
p 43.

Henry Bratcher 4283
\$3.90

Sci - Min/Mat
Oct 58

74, 852

Effect of Heat Treating on [Abrasive] Wear Resis-
tance of Steels for Earth-Moving Equipment,
by N. M. Beryak, M. M. Kantor.

RUSSIAN, per, Metal i Obr Metallov, No 7, 1958,
pp 46-70.

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Henry Bratcher 426A
\$3.35

Sci - Min/Mat

Jan 59

79,669

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Carburizing Compounds, by L. K. Luksha.

RUSSIAN, per, Metall i Obra Metallov, No 7,
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Henry Bratcher 4285
\$1.90

Sci - Chem

Jan 59

78,635

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RUSSIAN, par, Metall i Obrab Metallov, No 7, 1958,
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Henry Bratcher 4286
\$2.30

Sci - Chem

Jan 59

80,673

Effect of Heat Treatment on Notch Sensitivity of
Chrome-Molybdenum-Vanadium Steel, by E. N.
Petropavlovskaya.

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Henry Bratcher 4287
\$4.35

Sci - Min/Mat

Jan 59

80,674

Physical-Chemical Properties and Fields of Appli-
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RUSSIAN, per, Metal i Obra Metallov, No 8, 1958,
pp 2-13.

Henry Bratcher 4313
\$10.60

Sci. - Min/Mat

OTS 59-1314

May 59

86,629

Grain Refinement on High-Temperature Heating, by
Ya. R. Rauzin.

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No 8, 1958, pp 14-17.

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Sci-M/M
Mar 63

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Titanium Welds, by S. N. Gurevich.

RUSSIAN, per, Metal i Obra Metallor, No 8,
1958, pp 18-21.

HB 4315

Sci - Chem

Apr 61

147,430

Effect of Grain Size on the Resistance of Steels
to Cavitation Erosion, by I. N. Bogachev, R. I.
Mints.

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1958, pp 26-29.

Henry Bratcher 4317
\$2.80

Sci - Chem

Jan 59

79,595

Effect of Nickel on Transformations Occurring
in Aluminum-Copper Alloys at Elevated Temperatures,
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Henry Bratcher 4319
\$3.90

Sci - Ingr

84,308

Apr 59

Localized [Induction] Heat Treating of Electro-
Slag Welds, by V. N. Novikov, et al.

RUSSIAN, per, Metal i Chra Metallor, No 8,
1958, pp 38-43.

Henry Bratcher 4320
\$3.85

Sci - Engr

May 59

86,636

Softening of Carburized Alloy Steels Preparatory to
Machining, by Yu. G. Vyshkovskiy.

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HB 4321

Sci-M/M
Mar 63

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RUSSIAN, per, Metal i Odra Metallov, No 8, 1958, pp 46-51.

Henry
Brutcher 4322
\$4.80

Sci - Engineering
May 59

86,690

Study of Ductile-Brittle Transition Temperature
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Timofeyev.

RUSSIAN, per, Metal i Obrabotannyye, No 8,
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Henry Bratcher 4324
\$2.00

Sci -- Engg

May 59

86,633

Tempering Characteristics After Induction Hardening, by I. N. Kicin, E. V. Astaf'yova, A. N. Marshalkin.

RUSSIAN, per, Metal i Obra Metallov, No 9, 1958, pp 2-12.

Henry Bratcher 4348
\$9.50

Sci - Min/Mot

84,262

Apr 59

Study of Impact Fatigue Strength, by W. M.
Davidenkov, E. I. Belyayeva.

RUSSIAN, Tr. Metal i Obrab Metalloy, No 9,
Sep 1958, pp 12-15.

Henry Bratcher 4349
\$2.80

Sci + Engr

May 59

86,641

Some Properties of Iron-Copper Alloys Made by
Infiltration Process, by I. N. Frantsevich,
O. K. Medvedevich.

RUSSIAN, per, Metal i Obra Metallov, No 9,
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Henry Bratcher 4351
\$3.90

Sci - Engr

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Apr 59