

Vladzevskii, A. P.
THE PROBABILITY LAW OF OPERATION OF AUTO-
MATIC LINES AND INTERNAL STORAGE IN THEM
[1961] [39]p. 25 refs. [DSIR NLL] M 1924
Order from ODS or SLA \$5.60 61-13467

Trans. of Avtomatika i Telemekhanika (USSR) [1962]
v. 13, no. 3, p. 227-231 (p. 243-246 condensed)

DESCRIPTORS: *Operations research. Industrial
research. *Probability. *Industrial production.
Storage. Automation.

This article deals with certain problems of the theory
of automatic lines, their laws of operation and the
application of these laws to the solution of certain
problems associated with increasing the efficiency of
the lines. The probability law of operation of automatic
lines is found. The problem of the most suitable num-
(Machinery Manufacturing, IT, v. 7, no. 9) (over)

61-13467

I. Vladzevskii, A. P.
II. DSIR NLL M 1924

Office of Technical Services

**Experimental Research on the Effect of
Residual Stresses on the Endurance of Welded
Joints Under Vibratory Loading, by V. V.
Shevernitkiy, V. I. Trufyakov. UNCL**

RUSSIAN, per, Arten Susha, No 4, 1958, pp 5-10.

DSIR LRU ERS 1334

(16a. 01.)

**Sci - Eng
Apr 60**

113,021

Reactions in the Arc Atmosphere During Submerged
Automatic Welding, by V. V. Pudovskii

RUSSIAN, per, Avto Svarka, Vol VI, 1953, No 1,
pp 10-18.

Butcher Order No 3072
Price \$6.80

Scientific - Minerals/Metals

Jan 53 CTO

1235

Spectroanalytical Determination of Small
Quantities of Carbon in Steels and Welds, by
E. S. Kudelya, A. S. Dem'yanchuk, }

RUSSIAN, Avtomat Svarka, Zhurnal Vol VI, No 1,
1953, pp 19-26. }

13,736

Drutcher Tr
No 3270

Scientific - Min/Metals, Chemistry

Effect of Heat Treating Upon the Results of
Spectroanalysis of ~~Iron~~ Steel and Welds, by
E. J. Bialy

RUSLAN, per, Avto Stanka, Vol VI, No 1,
1973, pp 27-33.

Drutcher Tr 3272

15,967

Scientific - Minerals/Metals
Jul CTS/EC Price \$5.40

**Development of Primary Structure of Welds in Low
Carbon and Low Alloy Steels by Electrolytic
Etching, by A. A. Bessonovskii**

**RUSSIAN, per, Arto Svante, Vol 6, 1973, No 1,
pp 78-84.**

Butcher 2r No 3071

Scientific - Metallurgy

Price \$2.75

1376

**Influence of Temperature and Time Upon Intergranular
Corrosion of Welds in 18-8 Type Steel, by
N. Ya. Pal'chuk,**

**RUSSIAN, per, Avtomat Svarka, Vol VI, No 2,
1953, pp 3-14.**

**Butcher Tr No 3233
\$9.00**

21,072

Scientific - Man/Metals

Feb 53 010

Electrodes for the Welding of Acid-Resisting Cr-Ni-Mo-Ti Steels, by G. A. Ukolov.

RUSSIAN, per, Avtomaticheskaya Svarka, Vol VI, No 3, 1953, pp 46-49.

Butcher Tr 3188

Scientific - Minerals/Metals

Price \$1.80

Nov 53 CTS

7340

Influence of Hydrogen, Oxygen, and Nitrogen Upon Formation of Hot Cracks in 18-8 Steel Welds. Part, I. D. Bratcher. UNCLASSIFIED.

RUSSIAN, per, Avtomat Svarka, Vol VI, No 4, 1953, pp 3-9.

SLA R-1920
Bratcher Tr No 3369

Scientific - Min/Metals .

17,375

Influence of Hydrogen, Oxygen, and Nitrogen upon
Formation of Hot Cracks in 18-8 Steel Welds, Part III,
by D. I. Medovar, /

RUSSIAN, per, Avtomat Svarim, Vol VI, No 4,
1953, pp 10-18.

Butcher Tr No 3370

Scientific - Min/Metals

13,728

Influence of Hydrogen, Oxygen, and Nitrogen
Upon the Formation of Hot Cracks in 18-8
Steel Welds. Part III, by D. I. Medover:

RUSSIAN, per, Avtomat Sverdlov, Vol VI, No 4,
1953, pp 18-23.

Brusher Tr
No. 3971

5217 R-1926

4.20

Scientific - Minerals/Metals ORS/DMK

19,503

Electro-Slag Welding, by G. Z. Voloshkevich.

RUSSIAN, per, Arsen Svezka, Vol VI, No 6,
1973, pp 3-10.

HB 4607

Sci - Engr

Nov 59

100,351

**The Sigma Phase in 18-8 Austenitic Steel Welds,
by B. I. Medovar, A. A. Rossoshinskiy,**

**RUSSIAN, per, Avtomat Svyaz, Vol VII VII,
No 3, 1954, pp 25-30.**

24,679

**Butcher Tr No 3316
\$8.60**

SLA - R1949

Scientific - Min/Metals

Jan 55 CTS

On the Nature of Weld Hot Cracking, by B. I.
Molovar.

RUSSIAN, per, Avto-Mashinostroyeniye Svarjka, Vol VII,
No 4, 1974, pp 18-22.

Bratcher Tr
No 900

Scientific - Min/Metals Jun 75 CTR/DEX

20,901

Interaction Between Slag and Metal in Electro-
slag ~~Welding~~ Welding, by Yu. N. Gotal'skiy.

RUSKLAN, per, Avtomat Svarke, No 5, 1954,
pp 32-43.

Henry Bratcher 4437

Sci - Engr

Apr 59

83,670

Formation of Hot Cracks in Butt Welds With
Extension Tabs, by S. L. Mandel'berg, O.S. Zabarilo,

RUSSIAN, per, Avtomat Svarka, Vol VII, No 6, 1954,
pp 29-32.

27,850

Brutcher Tr 3550

Scientific - Min/Metals Oct 55 CIB

Submerged Automatic Arc Welding of Rusty Steel,
by A. G. Masol, B. P. Vasil'kov.

RUSSIAN, per, Avtomaticheskaya Svarka, Vol
VII, No 6, 1954, pp 44-51.

Butcher, Tr No 3591
\$4.20

USSR
Sci - Engineering
Minerals/Metals

29,111

On the Problem of the Reasons for the Development
of Hot Cracks in Welding, by N. N. Prokhorov.
UNCL

RUSSIAN, per, Avton Svyaz, Vol VII, No 6,
1954, pp 28-30.

DSIR 227 N.1376

(Loss)

Sci - Engr
Apr 60

112,676

Reasons for the Hot Cracking of Welds, by
V. V. Podgayetskiy,

RUSSIAN, per, Ann Atomat Svarka, Vol VII, No ⁶ 7,
1954, pp 73-76.

27,827

Exts Bratcher Tr 3536

Scientific - Min/Metals

Oct 55 CTS

On the Nature of Intergranular Cracking of Welds
at High Temperature, by B. A. Movchan, L. A.
Kosnyak.

RUSSIAN, no per, Avtomaticheskaya Svarka, Vol 6,
no 6, 1954, pp 59-72

Butcher No 3572
\$9.40

Scientific - Min/Metals
Tab 56 CTS/box

31,248

Effect of Solubility of Alloying Elements upon Weld
Hot Cracking, by B. I. Medovar, 3700 words.

USSIAN, p. r., Axiomaticheskaya Svarka, Vol VIII, No 2,
1955, pp 79-90.

Butcher No 3554
\$7.40

Scientific - Minerals/metals

26, 728

Sep 55

**On One Form of Interganular Stress Corrosion in Welds
in Stabilised 18-8 Steels (Knife-Line Attack),
by Yu. I. Kazemov,**

**USSIAN, per, Avtomat Svarka, Vol II, No 8, 1955,
pp 91-93.**

26,089

**Bratcher Tr 3552
\$2.50**

Scientific - Min/Metals

Aug 55 CTS

Special Features of Automatic (Semisubmerged)
Arc Welding of Aluminium and Its Alloys, by
D. M. Rabkin, 15 pp.

RUSSIAN, per, Avtomat Sverka, Vol VIII,
No 3, 1955, pp 13-25.

SLA 59-22671

Sci
3ep 61

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Some Problems of the Metallurgy of Semi-Automatic
Welding of Stainless Steel Using Unfilled Siliceous
Fluxes, by A. I. Akulov.

RUSSIAN, per, Avtomaticheskaya Svarka, Vol VIII,
No 3, 1955, pp 50-54.

Butcher No 379A
\$3.20

Sci - Min/metals

40,650

Oxygen-Free Fluxes for Welding High-Alloy
Steels and Alloys, by B. U. Medovar, S. M.
Gurevich. UNCL

RUSSIAN, per, Avtom Svarka, No 4, 1955,
pp 11-41.

FILE NO. 4767

REF 1335

OTS 62-14315

(Lb 5a.0a.)

114,290

Sci - Min/Mat
Apr 60

Effect of Structure of Flux on Porosity of Weld,
by V. V. Podgayetskiy, A. V. Mal'nik. URCL

RUSSIAN, per, Avton Svarka, No 4, 1955, pp 58-62.

British Iron and
Steel Ind 1336
(12 5n.04.)

Col - Hln/wot
Sep 59

96,027

**Etching Agent for Macrostructure of Welds in
Steel, A. A. Nosochinskiy, V. Ya. Sidlyarskiy.**

**RUSSIAN, per, Avtomaticheskaya Svarka, Vol VIII,
No 4, 1955, p 83.**

Butcher Tr

No 3690

\$1.25

Scientific - Min/Metals

May 56 CIB/DEX

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Methods of Studying the Primary Structure of Welds, by
A. A. Rossozhinskiy.

RUSSIAN, bino per, Avtomaticheskaya Svarka, Vol VIII,
No 4, Kiev, 1955, pp 90-94.

Brutcher Tr 3992
\$2.75

Sci - Min/Met

57,026

Jan 58

Influence of Aluminium on the Properties of Welded
Seams With High Nitrogen Content, by B. S. Kasatkin,
N. I. Kakhovski. UNCL

RUSSIAN^{to} GERMAN
per, Avtom Svarka, Vol VIII, No 5, 1955,
pp 3-13.

Verein Deutscher Eisenhuettenleute
Duesseldorf
Breite Strasse 27
Germany

The Temperature of A Wild Foal, by I. K. Fakhovya,
I. I. Frenan, 11 pp.

RUSSIAN, FOR, ARCADE STANIS, No 3, 1955, pp 11-21.
(980780)

(LOAN) NLL Ref. 0578.1 1963 (1,273)
A.C.S.I.L. Tr 1983

Sci - Eng
Apr 63

229,305

Effect of ... of Current on Interactions of
... with ... in ...
... stability.

... Atlantic ... No 5. 1955.
... 47-40.

Henry Bratcher 4438

Set - Error

Apr 59

83, 671

New Developments in the Welding of Heavy-Gage
Steel Plate, by M. M. Fishkis et al.

RUSSIAN, no par, Avtomat Svarka, Vol VIII, No 5,
1955, pp 74-77.

Henry Bratcher
Tr No 3774
~~\$2.90~~ \$3.90 45,135

Sci - Engineering
Mar 1957 CTS/Gax

On Brittle Fracture of Welded Storage Tanks and
Other Structures, by G. V. Bayevskiy, 28 pp.

RUSSIAN, per, Avtomat Svarka, No 6, 1955, pp 3-18.
9660730

AFIC MEL-569/III

Sci - Phys

Apr 61

147,894

DDO40429-M

Some Problems Related to the Application of Automatic
Hard Facing of Rolls, by G. Patrishenko.
RUSSIAN, per, AVTON. SVETL. No. 6, 1955, pp 74-84.
NISI 5171

Serial Number

331, 923

Sci - Materials
Jul 1967

10 891

GE-1

B. I. MEDOVAR, N. A. LANGER

**Corrosion destruction on the melting line of welds made with
type 18-8 stainless steels**

**Korrosionszerstörung von Schweißverbindungen aus nicht-
rostenden Stählen des Types 18-8 auf der Schmelzlinie**

Avtomat. Svarka, 8, No. 6, 85-95 (1955)

German

E u r a t o m

Low-Silica Fluxes for Automatic Welding and for
Facing, by I. I. Prumin, et al.

RUSSIAN, no per, Avto Svarka. Vol IX, No 1,
1956, pp 3-20.

Scratcher No 3800

\$13.80

41,415

Sci - Engineering
Dec 56 CTS

13KHCQDGA Welding Wire for the Automatic
Welding of 30KHCQA Steel, by Slutskaya.
UNCLASSIFIED

RUSSIAN, per, Avtomat Svarka, ⁷⁰²Mar/Apr 1956,
pp 12-17.

NLL M.4175
Co-op Tr Scheme
Tr 730
(LL.15.0)

Sci - Eng
Apr 58

62,670

Static Strength of Spot-Welded Joints, by A. N.
Dorofeyev,

RUSSIAN, per, Avco Sparks, Vol IX, No 2 (7), 1956,
pp 58-66.

Butcher Tr 3802
\$7.60

Sci - Engr
Jul 58

66,284

Ultrasonic Flaw Detection in Butt Welds, by A. K.
Gurvich. USCL

RUSSIAN, per, Avtom Svarka, Vol IV, No 2, 1955,
pp 68-75.

British Iron and Steel Ind
(no number given)

Sci Phys
Sep 59

98,180

Thermal Expansion as a Basis for Control of Spot
Welding of Duralumin, by A. Pachentsev.

RUSSIAN, par, Avtomat Svarka, Vol IX, No 3, 1956,
pp 65-72.

Brutcher Tr 3978
\$5.40

Sci - Min/Met

Apr 58

61,441

Fixtures for Electroslag Welding, by V. V. Ruzhanskii,
32 pp.
RUSSEAN, par, Avances in Space, No 4, 1964, pp 20-49.
JPRS 24749

Sci-Mat & Mat
Jun 64

240,410

Welded Joints and Residual Stresses, by V. I.
Trufyakov. UNCL

RUSSIAN, per, Avtom Svarka, No 5, Oct 1956.

(Held in TIL -- no other info)

Feb 59

Carbon-Dioxide Shielded, Consumable-Metal Arc
Welding of Alloy Steels, by B. S. Kasatkin,
et al.

RUSSIAN, per, Avtomat Svarka, Vol IX, No 5,
1976, pp 19-21.

HB 4890

OT 12 1976

Sci - Engr

Sep 60

127,041

Flat Coiled Thin-walled Electrically Welded
Tubes, by G. V. Bayevskiy. UNCL

RUSSIAN, Sov. Avtom. Svarka, No 5, 1956,
pp 32-39.

DOIT LRU 103 1282

~~(S)~~ (DL.2a.6a.)

Sci - Eng

Feb 60

100,342

A Method for the Rapid Analysis of Flux
AN-348-A, by W. A. Langer, T. P. Novikova. UNCL

RUSSIAN, per, Avton Smacha, No 5, 1956, p 80-83.

British Iron and
Steel Ind 1284
(12)

Sci - Page
MAY 59

NLL M. 41574

86,776

Ultrasonic Inspection of Fillet Welds,
by A. K. Ourvich.

RUSSIAN, per, Avtomat Svarka, Vol ~~8~~ VIII, II
No 5, 1956, pp 84-89.

HB 4489

Sci - Engf

Jan 62

178, 311

Prumba, I I
**PREVENTION OF PORES DURING SUBMERGED ARC
 WELDING AND WELD SURFACING** (Prezbrovsheniye
 por pri Svarbe i Naplavke pod Plyusom). Apr 61 (49)
 67 refs. RTS 1779.
 Order from OTS or SLA \$4.60 61-19491

Trans. of Avtomaticheskaya Svarka (USSR) 1960 (v. 9)
 no. 6, p. 1-30.

DESCRIPTORS: *Arc welding, *Arc welds, *Hydrogen,
 *Porosity.

The paper examines experimental data on the formation
 of pores, and the most important technological and
 metallurgical factors. It shows the part played by hy-
 drogen as the main cause of porosity, as well as the
 part played by nitrogen, carbon monoxide and water
 vapour. A theoretical analysis is given of the processes
 in the gas phase, the weld pool and in the slag which
 lead to the appearance of pores; methods of preventing
 (Machinery-Manufacturing, TT, v. 6, no. 1) (over)

61-19491

I. Prumba, I I.
 II. RTS-1779
 III. Department of Scientific
 and Industrial Research
 (Cl. Brit.)

161813

Office of Technical Services

Effect of Composition of Iron-Chromium-Carbon
Alloys on Weld Hot Cracking Susceptibility, by
I. K. Pokhodnya.

RUSSIAN, per, Avtomat Svarka, Vol IX, No 6, 1956,
pp 55-63.

Butcher Tr 4168
\$7.35

Sci - Engr

Aug 50

68,204

Segregation in Fusion Zone and in Solidification Layers
as Related to the Diffusion Between Solid and Liquid
Phases in the Freezing of Welds, by A. M. Makara, A. A.
Rososhinskiy.

RUSSIAN, bino per, Avtomaticheskaya Svarka, Vol IX, No 1
(51), Kiev, 1956, pp 65-76.

Bratcher Tr 3991
\$9.80

Sci - Min/Mst

57,025

Jan 58

The Spectral Analysis of Fused Welding Fluxes,
by E. S. Kibelya. UNCLASSIFIED

RUSSIAN, per, Arten Sparka, No 1, 1957,
pp 73-76.

ML 11.9.57
British Iron and Steel Ind 1033

Sci- Phys
Jan 59

78,435

Mechanism of the Formation of Crystalline Cracks
During Welding and Hard Facing, by I. I. Frumin,
24 pp.

RUSSIAN, per, Avtomat Svarka, No 1 (52), 1957,
pp 88-102. 9660807

ATIC MCL-467
ATS-22L36R

Sci - Engr

May 61

150, 192

The Mechanism of Formation of Crystallization Cracks
During Welding and Depositon of Beads, by I. I.
Frumin, 14 pp.

RUSSIAN, per, Avtomat. Svarka, Vol X, No 1(52),
1957, pp 88-102.

ATS-22L36R

Sci

Jun 60

SCIA AT-11 MCL 476
CIP 9680 801
118,305

Effect of Columbium on the Structure of Welds in
Austenitic 18-8 Steel, by G. G. Makha, N. Ya.
Pal'chuk.

RUSSIAN, per, Avtomat Svarka, Vol X, No 2, 1957,
pp 1-10.

Henry Bratcher 4412
\$9.65

Sci - Eng

28 Jan 59

79,589

All-Austenite Welds Not Susceptible to Hot
Cracking, by B. I. Medovar, Yu. V. Latash.

RUSSIAN, per, AVIACIONAL SVAROKA, Vol 1, No 2,
1957, pp 32-45.

EB 4464

Sci -Engr
Dec 59

British Welding Research Association
Abington Hall
Abington, Cambridge
BWRA/Tr 5/59

104,351

10 892

OE-1

B. I. MEDOVAR, N. A. LANGER, Yu. V. LATASH

Intercrystalline corrosion in sulphuric acid of fully austenitic steels and welds caused by deformation under pressure

Interkristalline Korrosion in Schwefelsäure von vollaustenitischen Stählen und Schweißungen bedingt durch Druckverformung

Avtomaticeskaya Svarka, 10, No. 1, 46-50 (1957)

German

E u r a t o m

Ultrasonic Fault Detection in Electroslag Welding
Joints, by N. B. Khimtchemko, V. P. Esileoskiy,
V. A. Tsechal.

RUSSIAN to GERMAN, per, Avtos Svarka, No 2, 1957,
pp 70-78.

ID-U 687

Institut fuer Dokumentation-
Übersetzungsnachweis
Berlin, W 8
Unter den Linden 8

Doc 59

The Multiple-Pass Welding of Thick Metal in a
Protective Medium of Carbon-Dioxide Gas,
by D. A. Dudko, et al. URCL

RUSSIAN, per, Avton Svarke, No 3, 1957,
pp 58-63.

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Sci - Engr
Nov 59

100,757

Some Problems in the Electroslag Welding of
Titanium, by S. M. Gurevich, V. P. Didkovskiy.

RUSSIAN, per, Avtomat Svarka, No 3 (54), 1957,
pp 85-91.

ATS RJ-2070

Sci - Chem
Dec 59

OTS 62-2-15

104,071

New Welding Generator Circuits and Their Use
for Welding in Shielding Gases, by G. M.
Kasprzak, S. I. Slepshkin. UDCI 16pp.

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pp 97-104.

*Received in person
07 77-62-1617*

SLA 60-13432
DSIR LLI (Russ) RTS 1211

(LI Co. Od.)

Sci - Engr
Nov 59

100,758

Shanov, N.S. and Urmanov, R.N.
ANÁLISIS DE LOS ESQUEMAS DE SOLDADURA
POR ARCO TRIFÁSICO USANDO BOBINAS DE RE-
GULACION MONOFÁSICAS (Analiz Skhem Svarki
Trehfaznoi Dugoi i Ispol'zovaniem Odnofaznykh
Reguliroemykh Dvuznolei) (Analysis of Triphasic
Arc Welding Patterns with Monophasic Control Elec-
tric Coils). 29p. *Refs. CID:63-333,
Order from OIS, ETC or CID \$2.60 TT-63-26733

Trans. in Spanish of Avtomaticheskaya Svarka
(USSR) 1957, v.10, no.4, p.1-14.

DESCRIPTORS: Analysis, Wiring diagrams, *Arc
welding, *Control systems, Coils,

(Metallurgy, TT, v. 11, no. 11)

TT-63-26733

I. Shanov, N.S.
II. Urmanov, R.N.
III. CID 63-333
IV. Centro de Información
y Documentación,
Madrid

Office of Technical Services
European Documentation Center

Spectral Analysis of Certain Titanium Alloys and Their
Weld Joints, by V. V. Bogdanova, Ye. S. Kudalya, 9 pp.

RUSSIAN, par, Avtomaticheskaya Sverka, No 4, (55),
1957, pp 29-32. ~~CIA-1111~~

AFIC F-78-9412/III

Sci - Minerals/Metals
Jun 58

65,627

Some Problems of Crystallization Cracking in
Electroslag Welding, by S. A. Ostrovskaya.

RUSSIAN, Prilozhenie Svarka, No 4, 1957,
pp 33-47.

MB 4859

123,078

Page

and

Method of Obtaining a Collodion Replica of
a Known Region of a Specimen for Electron
Microscope Examination, by Yu. B. Malevkiy,
G. F. Darovskiy.

RUSSIAN, per, Avtomat Svarka, No 4,
1957, pp 48-51.

CSIRO

Sci - Electron
Mar 62

189,285

The Use of Aluminum Welded Structures, by D. W.
Fabbia, 4 pp.

RUSSIAN, per, Avtomat Svarka, No 4, Kiev, 1957,
pp 107-112.

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Sci - Minerals/Metals
Dec 58

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Certain Characteristics of Welding Titanium
Under Flux, by S. M. Gurevich, 17 pp.

RUSSIAN, per, Avtomat Svarka, No 5, 1957,
pp 38-48. 9642578

FTD-TT-63-21

Sci-Materials & Metallurgy
May 63

230, P88

Über die Teilnahme des Zusatz- und Grundwerkstoffes an
den Metallurgischen Reaktionen bei im Elektro-
Schlacke-Schweißvorgang, by D. A. Dudko, In. N.
Rublevskiy. (unpubl tr)

RUSSIAN to GERMAN, per, Avtom Svarka, No 5, 1957,
pp 56-60.

IDU 682
Institut fuer Dokumentation
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Berlin, W. G.
Unter den Linden 8

Apr 60

Automatic Fusing on With Band Electrodes, by P. A.
Khomusko.

RUSSIAN to GERMAN, per, Avtom Svarka, No 5, 1957,
pp 76-85.

ID-U 688

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Doc 59

**Mechanisms for the Diffusion of Cu in Fe and Steel,
by I. I. Subovaga.
RUSSIAN, per, Avtom Sverka Sborn, No 6, 1957,
pp 87-90.
*CPSTI TT 70-39116**

**Sci-
June 70**

Secondary Carbides and the Formation of the
Phase in Weld Seams of Stable Austenitic
Steel 1956 19-20. by Yu. B. Malovskiy, B. I.
Makovar, 10 pp.

RUSSIAN, per, Avtomat Svarka, Vol X, No 5,
1957, pp 86-94.

ABO Tr-4203

Sci - Min/Met
20 Oct 60

129,745

Dynamic Characteristics of the Power Source
in Automatic Inert-Gas-Shielded Welding, by
V. IL. E. Shchitova, I. Yu. Rabinovich.

RUSSIAN, per, Avtomat Svarka, Vol II, No 1,
1958, pp 44-47.

IB 6034

Sci-M/M

Nov 63

243,429

Wine Structure (Granular and Subgranular) and Its
Influence on the Impact Strength of Welds, by
E. S. Karakhin, E. L. Ersta, D. F. Derovsky. UNCL

RUSSIAN, per, Avtomat Svarka, No 2, 1958, pp 20-29.

DSIR IJU N.990

(loan) ^{file #} ZWRA/13/59
Cubick Welding Res Assoc
Abington Hall
Abington, Cambridge, 987

801 - MIA/jmt
Oct 59

Electron Microscope Examination of Welds in
Titanium, by V. P. Grabin, S. M. Gurevich. USSR.

RUSSIAN, par, Avtomat Svarka, No 2, 1958, pp 37-42.

DSIR LDU M.592

(loan)

Sci - Electronics; Zagr
wt 59

98,986

T of C

RUSSIAN, per, Avtomaticheskaya Svarka, No 3, Mar 1958.

AMS Lib Tr

Sci - Engineering
Sep 58

CO₂ Welding of 20 KhM Heat Resistant Steel, by B. S. Kasatkin, Yu. N. Vakhnin.

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DESCRIPTORS: *Arc welding, *Electric welding, *Slag,
 *Metals, *Chemical equilibrium

The object of the present investigation was to determine
 whether the conditions observed in general metallurgi-
 cal processes also apply in the case of welding. The in-
 vestigation was carried out in three directions. The in-
 vestigation of the metal and slag formed by the fusion
 of electrodes with core wires of different grades of
 steel, of electrodes with different amounts of ferrumina-
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ID-U 727

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(Machinery - Manufacturing, TT, v. 6, no. 6)

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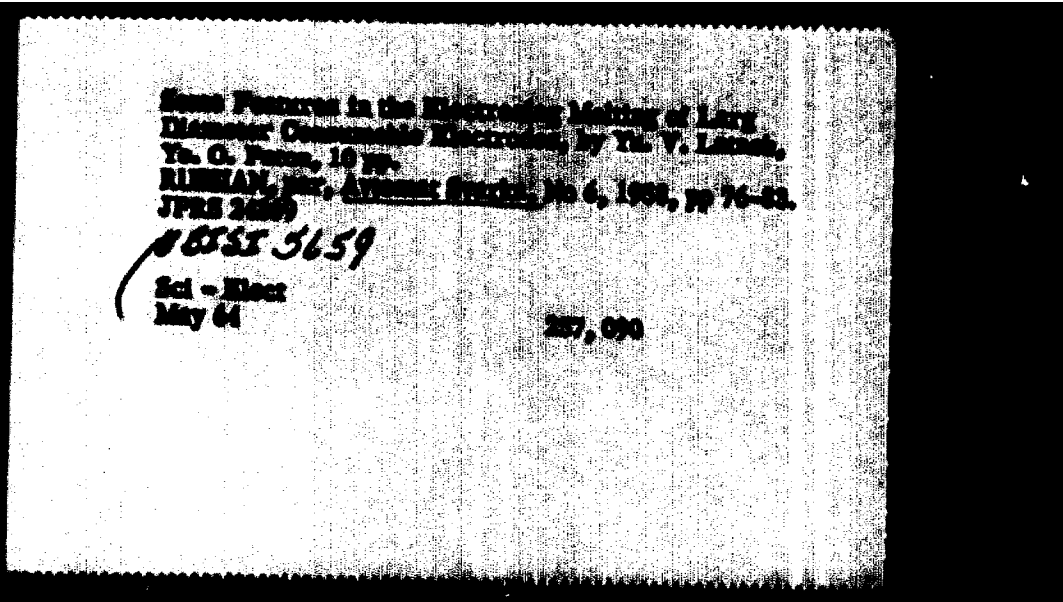
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<p>Trans. of Akademiya Nauk SSSR (USSR) 1961, v. 11, no. 7, p. 52-59.</p>	
<p>The electrode fusion and metal transfer processes have been examined for CO₂-shielded welding with type Sp-100S wire 0.5 to 1.2 mm in diameter, and also the nature of energy dissipation in the arc. The influence of welding condition parameters on metal fusion and transfer have been investigated. (Author)</p>	
<p>(Machinery--Manufacturing, TT, v. 8, no. 10)</p>	