

R-900

(NY-2928).

The Development of the Coal Industry in the  
Kazakh SSR, by A. G. Tkachenko, 13 pp/

RUSSIAN, per, Ugol', No 7, 1959, pp 25-30.

JPRS-L-978-N

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Sep 59

97689

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(NY-2928).

Raising Labor Productivity and Reducing Cost in  
the Concentrating of Coal at Concentration Mills,  
by V. A. Malinovskiy, 12 pp.

RUSSIAN, per, Ugol', No 7, 1959, pp 50-55.

JPRS-L-978-N

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(NY-2928).

Measures for Sharp Curtailment of Output of Anthracite  
Fines in the Donbass, by V. A. Margolin, 11 pp.

RUSSIAN, per, Ugol', No 7, 1959, pp 55-58.

JPRS-L-978-N

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Econ - Coal Industry  
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Results of Trials of Mechanized Advancing Face  
Supports, by S. K. Klorikyan, V. I. Paramonov.

RUSSIAN, per, Ugol, Vol XXXIV, No 8, 1959,  
pp 27-32.

NCB A.1864

Sci

NK M 5013

Aug 61

List No 41

163,546

(NY-64-1)

T'ang-shan Institute of Coal Research, by  
Hou Pao-cheng, 4 pp.

RUSSIAN, per, Ugol', No 10, 1959, pp 42-44.

JPRS 9332

FE - China

Econ

Jun 61

155,056

Telemetry in Pits of the Ingansk Economic Region,  
by M. A. Galdin & N. G. Flyushehlov.  
RUSSIAN, per, Ugol', Vol 1, 1960, pp 11-16.  
NLL Ref: 9022.66 (1907)

Sci/Ear Sci & Oceanog  
Feb 68

349,600

Automatic Control of Mine Cars on the Surface  
at the No. 1 XIX Partayevsk Pit of the Leningol  
Trust, by S. I. Vaisburd.

RUSSIAN, per, Ugol', Vol 1, 1960, pp 16-18.

NLL Ref: 9022.66 (1908)

Sci/Mech, Indus, Civ & Mar Engr

Feb 68

349,611

Automatic Control of Skiswinding at Pit No. 1,  
by L. I. Kovalev.

RUSSIAN, per, Ugol', Vol 1, 1960, pp 18-20.

NLL Ref: 9022.66 (1909)

Sci/Mech, Indus, Civ & Mar Engr  
Feb 68 349,604



Remote Control of Cageswinding, by E. E. Lavronenko.  
RUSSIAN, per, Ugol', Vol 1, 1960, pp 20-23.  
NLL Ref: 9022.66 (1910)

Sci/Mech, Indus, Civ & Mar Engr  
Feb 68 349,605

Special Types of Communications in Pits, by  
K. G. Astakhov.

RUSSIAN, per, Ugol', Vol 1, 1960, pp 33-35.  
NLI Ref: 9022.66 (1912)

Sci/Mech, Indus, Civ & Mar Engr  
Feb 68 349,601

R-01-60

(00-3365)

Problems of the Coal Industry in 1960, by G. V.  
Krasnikovskiy, 11 pp.

RUSSIAN, per, Ugol, No 4, 1960, pp 3-8.

JPRS 3626

USER

Techn-Jaen

Aug 60

121,572

New Types of Binding Agents for Briquetting  
Coal Fires, by L. L. Khottuntsev, V. L. Popov.

RUSSIAN, per, Ugol', Vol XXV, ~~1962~~ No 4, 1960,  
pp 51-55.

NLL M 3902

Sci - Chem  
Mar 63

225,44

Tarasov, B. G.  
CHARACTERISTICS OF GAS RELEASE IN MINE  
WORKINGS (Osobennosti Gazovydeleniya v Podgotovitelnykh Vyrabotkakh). Apr 61 [12]p. 8 refs. RTS 1867.  
Order from GTS or SLA \$1.60 61-19949

Trans. of Ugol' (USSR) 1960 [v. 35] no. 5, p. 27-31.

DESCRIPTORS: \*Coal gas, \*Coal, Mining engineering

An examination was made of the release of gas from the exposed coal face in the Stalin, Voroshilov and "Coking II" pits in the Prokolev coalfield, as a function of (1) time of exposure of the coal face by mining work, (2) degree of disturbance and mechanical strength of the coal, (3) thickness of seam, (4) effect of pressure due to weight of coal (by measurement of gas released from roof and floor of the working), and (5) extent of fracturing of coal by rock pressure.

(Materials--Fuels, TT, v. 6, no. 3)

61-19949

- I. Tarasov, B. G.
- II. RTS-1867
- III. Department of Scientific and Industrial Research (Gr. Brit.)

175311

Office of Technical Services

R-115/60

(DC-4158)

The Technical Progress of the Coal Industry in  
1959 and the First Quarter of 1960, 10 pp.

RUSSIAN, per, Ugol', No 6, 1960, pp 1-5.

JPRS 6001

USSR

Econ - Technological - Coal

Oct 60

127,259

R-115/60

(DC-4158)

The Coal Industry of North Korea, by V. V.  
Martynov, 9 pp.

RUSSIAN, per, Ugol', No 6, 1960, pp 54-56.

JPRS 6002

USSR

Econ - Coal

Sep 60

127,071

Hydraulic Haulage of Lump Coal in a Fine-Coal Slurry,  
by I. D. Pehonichnyi, V. V. Trainis, 11 pp.

RUSSIAN, per, Ugol, No 7, 1960, pp 48-53. 9215307

OTS 63-11092  
PL-480

Sci - M/M  
Dec 63

243,955



Dismantling a "Mossbass" (OMKT) Shield Without  
Depriving the Dismantling Room of its Support, by  
P. I. Mal'tsev, V. D. Zubkov.  
RUSSIAN, per, Ugol, No 11, 1960, pp 37-40.  
NLL Ref: 9022.66 (2626)

Sci/Mat'  
Mar 69

376,902

Nechesov, B. G.  
ANWENDUNG PNEUMATISCHER GESCHWINDIGKEITS-  
RELAIS BEI DER AUTOMATISIERUNG VON STETIG-  
FÖRDERERN FÜR UNTERTAGEBETRIEB (Application  
of Pneumatic Velocity Relays at the Automation of  
Underground Continuous Conveyors). 5p. (text in  
German).  
Order from T.I.B. \$1.40

Trans. of Ugol' (USSR) 1960, v. 35, no. 12, p. 8-9.

DESCRIPTORS: Mining engineering. \*Conveyors,  
\*Pneumatic systems, \*Relays, Control systems.

62-27008

- I. Nechesov, B. G.
- II. T.I.B.
- III. Technische Informations-  
bibliothek Hannover.

Office of Technical Services

Determining the Strength of Rock Strata on Irregularly  
Shaped Specimens, by A. A. Ilivitskiy, V. I.  
Nikolin.

RUSSIAN, per, Ugol', No 1, 1961, pp 34-36.

NLL M 3905

Sci - Earth Sci & Astron  
Mar 63

225,410

Automation of Bunkerless Loading of Coal Into  
Railway Wagons, by M. E. Zarankin, V. V. Sil'vestrov,

RUSSIAN, per, Ugol', No 4, 1961, pp 23-28.

MLL M 3919

Sci - Engr  
Mar 63

~~224, 269~~  
224, 269

De-Gassing a Seam Being Over-Worked Where the  
Steam Interval is Large, by M. P. Kukharskiy,  
Yu. V. Svetlakov.

RUSSIAN, per, Ugol', No 4, 1961, pp 43-44.

MLL M 3976

Sci - Engr  
Feb 63

723,585

Process of Coal ~~By~~ Drying in Fluidized State  
(boiling bed), by ~~Mark~~ M. I. Beilin,  
D. S. Enalyanov.

RUSSIAN, per, Ugol', Vol V, No 7, 1961, pp 16-20.

HLL M 8978

Sci - Engr  
May 63

229,149

Improvements and Calculations for the Suction System  
in Hydraulic Haulage Installations, by V. G. Geier,  
V. I. Gruba, 8 pp.

RUSSIAN, per, Ugol, Vol XXVI, No 9, 1961,  
pp 36-40. 9215307

OTS 63-11092  
PL-480

Sci - Engr  
Dec 63

243,952

Hydraulic Hoisting of Run-Of-Mine Coal Under  
Pressure, by V. V. Trainis.

RUSSIAN, per, Ugol, Vol XXXVI, No 9, 1961,  
pp 40-41.

\*PL-480  
OTS 63-11092  
PST-965

Sci

Jan 623



(87-2176)

Prospects for the Development of Strip  
Mining of Coal, by N. V. Mal'nikov,  
9 pp.

RUSSIAN, per, Ugol', No 10, 1961,  
pp 5-9.

JPRS 13156

USSR  
Econ  
Mar 62

189,309

(ESP-2176)

A Further Development in the Thorough  
Mechanization and Automation of the USSR  
Coal Industry, by A. V. Topchiyev, 8 pp.

RUSSIAN, per, Ugol', No 10, 1961,  
pp 10-14.

JPRS 13156

USSR  
Econ  
Mar 62

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(SF-2176)

The Future Development in Hydraulic Coal  
Mining, by N. N. Ignatov, 7 pp.

RUSSIAN, per, Ugol', No 10, 1961,  
pp 15-19.

JPRS 13156

USSR  
Econ  
Mar 62

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(SF-2176)

The Coal Industry in the Exposition of  
Achievements of the USSR National Economy,  
by AE S. A. Novikov, 4 pp.

RUSSIAN, per, Ugol', No 10, 1961,  
pp 51-52.

JPRS 13156

USSR  
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Mar 62

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(SF-2176)

Some Problems in Underground Mining of the  
Kuzbas Coal Deposits, by T. F. Gorbachev,  
5 pp.

RUSSIAN, per, Ugol', No 11, 1961,  
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JPRS 13156

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Econ  
Mar 62

189, 313

Factors Governing Hydraulic Mining and  
Blasting with Water Stemming, by V. A.  
Mazurov.

RUSSIAN, per, Ugol, No 11, 1961, pp 34-37.  
NLL Ref: 5828.4F 1966 (11176)

Sci-Ingr  
Aug 66

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Narrow Web Combines With Drum-Type Heads and  
Improvements, by K. Yupa.  
RUSSIAN, per, Ugol, Vol XXXVII, No 1, 1962,  
pp 57-61.  
NLL Ref: 9022.66 1964 (2194) (loan copy)

Sci  
Aug 64

The Physical Essence of Coal and Rock  
Destruction by Cutting Tools, by  
A. D. Imas, V. P. Solonko.

RUSSIAN, per, Ugol', Vol XXXVII, No 2,  
1962, pp 24-28.

NLL Ref: 9022.66 1963 (2269) (Loan)

Sci - MR Engr  
Feb 64

248,598



Shornikova, A. F. and Kurdyayev, B. S.  
INDUSTRIELLE ERPROBUNG DES SEPARATORS  
SVS-25 MIT ANREICHERUNG IN DER WIRBEL-  
SCHICHT (Industrial Testing of the Separator SVS-25  
with Concentration in the Fluidizing Bed). 7p.  
Order from TIB \$1.45

Trans. In German of Ugol' (USSR) 1962, v. 37,  
no. 2, p. 37-40.

DESCRIPTORS: \*Tests, \*Separation, \*Flotation.

(Engineering--Chemical, TT, v. 9, no. 11)

62-27274

I. Shornikova, A. F.  
II. Kurdyayev, B. S.  
III. Technische Informations-  
bibliothek, Hannover  
(West Germany)

Office of Technical Services

PUBLIC INSPECTION OF FULFILLMENT OF PLAND FOR  
SCIENTIFIC AND TECHNICAL RESEARCH WORK AND  
ACHIEVEMENTS, 10 PP.

RUSSIAN, PER, UGOL!, NO 7, JUL 1962,  
PP 62-64.

JPRS 16964

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SOC  
JAN 63

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Mitnik, V. B.  
CAP LAMPS WITH A FLUORESCENT BULB AND AN  
ELECTRONIC VOLTAGE TRANSFORMER (Golovnye  
Svetil'niki s Lyuminescentnoi Lampoi i Elektronnyy  
Preobrazovatelem Napryazheniya) tr. by L. Meyer.  
Mar 63 [12p] (foreign text included) S.M.R.E. Trans.  
no. 4807.

Order from OTS, SLA, or ETC \$1.60 TT-63-24154

Trans. of Ugol' (USSR) 1963, v. 38, no. 2, p. 45-48.  
(Abstract available)

DESCRIPTORS: \*Lighting equipment, \*Fluorescence,  
Electric potential, \*Transformers, Electronic  
equipment, \*Safety,

The article examines circuits, designs and parameters  
that would make it possible for a miners' cap lamp  
with a fluorescent bulb to be produced on the same  
principles as hand lamps.

(Engineering--Safety, TT, v. 11, no. 4)

NLL Ref: 2213.4 1963 (4,807) (200...100130020-5)

TT-63-24154

- I. Mitnik, V. B.
- II. SMRE Trans-4807
- III. Safety in Mines Research  
Establishment  
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Office of Technical Services

NEW MECHANIZATION EQUIPMENT FOR COAL MINING, BY  
A. V. TOPCHIYEV, 7 PP.

RUSSIAN, PER, UGOL', NO 8, 1963, PP 10-12

JPRS 21266

USSR  
ECON  
OCT 63

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A Method for Computing Coal Comminution  
in a Pipeline During Hydraulic Transport, by  
V. V. Trainis.

RUSSIAN, per, Ugol Vol XXXVIII, No 9,  
1963, pp 37-41.

ATS 96R77R

Apr 67

323,115

Compactness of the Hydromonitor Jet and the  
Choice, by V. F. Khnykin.  
RUSSIAN, per, Ugol, No 3, 1964, pp 26-29.  
NLL Ref: 5828.4F 1966 (11177)

Sci-Engr  
Aug 66

308,840

The Present Status of Hydraulic Transport  
in the Coal Industry, by A. O. Spivakovskiy  
and A. E. Smoldyrev,  
RUSSIAN, per. Ugol, Vol XXXIX, No 5, 1964,  
pp 42-48.  
AFS RJ-4568

Sci-  
Apr 67

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Experience Gained in Protecting Haulage  
Roads by Reinforced Concrete Checks,  
by V. E. Kardakov.

RUSSIAN, per, Ugol, Vol 39, No 6, 1964,  
pp 25-28.

NLL Ref: 9022.66B 1966 (M. 12061)

Sci-Mech Indus Civil  
Marine Engineering

309,558

Sept 66



CSO-1878

Viktor Solomonovich Tsypkin. (AP )

RUSSIAN, per, Ugol', No 8, 1964, p 80.

\*JPRS

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Biog

Nov 64

Hydraulic Transport in Hydromines and Methods for  
its Improvement, by A. Ye. Smoldyrev, 9 pp.  
RUSSIAN, per, Ugol, Vol 39, No 9, 1964, pp 42-45.  
AEC/GRNL-Tr-2283-70

*A. Ye. Smoldyrev*

Sci/Mech  
May 70

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405,709

Hydraulic Coal Mining in Czechoslovakia, by  
A. A. Surnachev, N. Ya. Smetana, 8 pp.  
RUSSIAN, per, Ugol, Vol 39, No 9, 1964,  
pp 93-96.  
AEC/ORNL-Tr-2270

Sci/Mech  
Aug 70

(NY-3000/9).

Prospects for Developing the Coal Industry in the  
Ukraine in 1959-1965, by G. V. Krasnikowskiy, 18 pp.

RUSSIAN, per, Ugol From Ukraine i Perspektivy Yeye  
Zdesvitsya, Kiev, 1959, pp 24-44.

JPRS 2602

USSR  
Econ - Technological  
May 60

116,056

Determination of Winding Output When Sinking  
Vertical Shafts, by A. Fedorov.

UKRAINIAN, per, Ugol Ukrainy, Yr 1, No 4, 1957,  
pp 11-14.

SLA 68-17245  
DSIR LLU M.1433  
(loan)

Sci - Engr

Oct 60

128,885

(DC-3696)

Vitol'd Stepanovich Pak, 2 pp

RUSSIAN, per, Ugol' Ukrainy, No 12, 1958

JPRS 3846

USSR  
Biog  
Sep 60

Calculating the Ventilation Resistance  
of Mine Cars, by K. A. Korepanov.

RUSSIAN, per, Ugol' Ukrainy, Vol III,  
No 1, 1959, pp 20-22.

MLL M.3271

Sci - Phys

Mar 62

183,705

Kokorin, I. Ya.

ROOF CONTROL OF THIN AND MEDIUM THICK  
LEVEL SEAMS WORKED BY HYDRAULIC MINING  
WITHOUT FACE SUPPORTS. [1961] [6]p. [NCB] Trans.

A. 1817/SEH: [DSR LLU] M.3138.

Order from OTS or SLA \$1.10

61-27527

Trans. of Ugol' Ukrainy (USSR) 1959, v. 3, no. 2,  
p. 8-10.

DESCRIPTORS: \*Coal, \*Mining engineering, Hydraulic  
systems, USSR.

(Engineering, TT. v. 6, no. 10)

61-27527

I. Kokorin, I. Ya.

II. NCB-A1817/SEH

III. DSR LLU M.3138

IV. National Coal Board  
(Gr. Brit)

07353

Office of Technical Services



(NY-2900/2).

Machinery: INJ

~~Mr. Machines for the Coal Mines of the~~  
Ukraine, by A. I. Bashkov, 9 pp.

RUSSIAN, per, Ugol' Ukrainy, No 3, 1959, pp 2-5.

JPRS-1798-N

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Jul 59

93,101

Hydraulic Mine With a Daily Output of 20,000  
Tons, by N. I. Surdutovich.

UKRAINIAN, per, Ugol' Ukrainy, 1959, pp 4-8.

Dept of Interior  
TN7, E57, No 302

118,827

Sci - Engr

Jun 60

New Developments in Underground Gasification of  
Coal, by A. M. Terpigorev, M. P. Korsh, 8 pp.

RUSSIAN, per, Ugol' Ukrainy, 1959, pp 8-11.

SLA 60-15296

Sci

Jan 62

Vol. III, No 10

*Recd of distribution  
IN 7, DE 57, NO 505*

179,907

Aerodynamic Resistance of Shafts Lined With  
Reinforced Concrete Tubbing, by F. A. Abramov,  
V. A. Dolinsky.

RUSSIAN, per, Ugol Ukrainy, Vol III, No 4, 1959,  
pp 16-19.

SLA 60-18062  
NCB A.1852

P.528

WLLM.3291

Sci

Aug 61

List No 41

163,534

Method of Degasification When Heading in  
Grassy Strata, by A. I. Rudman.

RUSSIAN, per, Ugol' Ukrainy, Vol III,  
No 7, 1959, pp 18-19.

NIL M.3286

Sci - Geophys

Mar 62

183,701

Increasing the Reliability and Moisture Resistance  
of the Insulation of Hand-Held Electric Drills,  
by M. B. Milich.

RUSSIAN, per, Ugol Ukrainy, No 9, 1959, pp 33-36.

Dept of Interior  
Tr No 1762

Sci

Jan 63

*NLL M 3907*

R-34/60

(DC-3944)

First Results and Next Tasks [In the Coal Industry  
of the Ukraine], by A. A. Burmistrov, 13 pp.

RUSSIAN, per, Ugol' Ukrainy, No 1, 1960, pp 1-6.

JPRS 3645

USSR

Econ - Technological, Coal

Aug 60

121,851

Lowering Methane at Cutting Machines and Combines  
Auxiliary Ventilation on the Machines Themselves,  
by Stepanov.

UKRAINIAN, per, Ugol KUKrainy, No 1, 1960,  
pp 16-18.

NCB A.1856  
P.536

Sci

NLL 11.3.60

Aug 61

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Water Infusion in the Coal Seam as an Effective  
Dust Suppressant, by Torekiy.

RUSSIAN, per, Ugol Ukrainy, No 3, 1960, pp 9-11.

NCB A.1896  
P.538

Sci

NLL 01.571

Aug 61

List No 41

1631572

Influence of the Speed of the Ventilization-Air  
Stream on Gas-Dust Routine When Working With  
Winning Machines, by Tsyrunikov, Ryzhenko.

RUSSIAN, per, Ugol Ukrainy, No 3, 1960, pp 24-26.

NCS A.1897  
P. 539

NLL 111111

Sci

Aug 61

List No 41

163,574

High-Economy Centrifugal Fans With Shaped Blades,  
by Pak, Babak.

RUSSIAN, per, Ugol Ukrainy, No 3, 1960, pp 41, 42.

NCB A.1898

P.540

NLL D.277

Sci

Aug 61

List No 41

163,573

Chub, V. F. and Koval, G. L.  
ERPROBUNG DER BOHREINRICHTUNG PBS-8 (Tests  
on the Drilling Machine PBS-8). 3p. (text in German).  
Order from T.I.B. \$1.40

Trans. of Ugol' Ukrainy (USSR) 1960, no. 3, p. 44-45.

DESCRIPTORS: Mining engineering. \*Drilling machines

62-27004

I. Chub, V. F.

II. Koval, G. L.

III. T.I.B.

IV. Technische Informations-  
bibliothek Hannover

Office of Technical Services

Mechanized Withdrawal of Breaker Props  
With Lowering of the Roof, by A. D. Greshishkin,

RUSSIAN, per, Ugol Ukrainy, Vol IV, No 5,  
1960, pp 28-29.

NIL M.328790

Sci - Engr

Mar 62

183.709

Possibilities of Working Out Favourable  
Ventilation Conditions by Means of an Electric  
Analogue During an Underground Mine Fire, by  
V. I. Voskoboinikov.

RUSSIAN, per, Ugol' Ukrainy, Vol IV, No 7,  
1960, pp 16-20.

HLI. M. 3433

Sci - Engr

194, 014

May 62

Hydraulic Transport of Large Coal in a Fine Coal  
Slurry, by I. D. Psenicnyi, V. V. Trainis.

RUSSIAN, per, Ugol, Vol XXXV, No 7, 1960,  
pp 48-53.

\*PL-480  
OTS 63-11092  
PST-964

Sci

Jan 63

Hydraulic Hoisting of Coal in Pipelines, by  
J. Avlasenke.

RUSSIAN, per, Ugol, No 9, 1960.

\*PL-480  
OTS 63-11092  
PST-958

Sci

Jan 63



S-459/61

(DC-6225)

Review of book "Rudnichnaya Avtomatika i Telemekhanika",  
(Mine Automatics and Remote Control), by V. G.  
Savasteyev, by V. A. Klemin, A. I. Rossoshanskiy,

RUSSIAN, per, Ugol' Ukrainy, No 9, 1960, p 43.

\*JPRS

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Econ - Coal Mine Automation  
10 Aug 61

Shishkin, N. F. and Mindell, G. V.  
FAST-ACTING PROTECTION AGAINST LEAKAGE  
CURRENTS AND THE COMPENSATION OF CAPACI-  
TIVE CURRENTS IN LOW-VOLTAGE NETWORKS  
(Bystrodelstvuyushaya Zashchita ot Tokov Utechki i  
Kompenzatsiya Emkostnykh Tokov s Nizkovol'tnykh  
Setyakh). Sep 61 [12]p. 2 refs. RTS 1909.  
Order from OTS or SLA \$1.60 61-28030

Trans. of Ugol' Ukrainy (USSR) 1960 [v. 4] no. 10,  
p. 35-39.

DESCRIPTORS: \*Electrical networks, \*Electric  
currents, Electroshock, Countermeasures, \*Electric  
insulation, Safety

(Engineering--Electrical, TT, v. 7, no. 3)

61-28030

- I. Shishkin, N. F.
- II. Mindell, G. V.
- III. RTS-1909
- IV. Department of Scientific  
and Industrial Research  
(Gt. Brit.)

Office of Technical Services

The Effect of Varying Rates of Advance on the  
Gassiness of Coal Faces, by A. S. Tsyrlnikov.

RUSSIAN, per, Ugol Ukrainy, Vol IV, No 12, 1960,  
pp 13-15.

Dept of Interior  
Tr No 1710

Sci

*NALM 3901*

Jan 63

Cleaning Mine Fan Drifts, by V. A. Zuev,  
Yu. I. Tarashev.

RUSSIAN, per, Ugol'N Ukrainy, Vol IV, No 12,  
1960, pp 19-20.

NEL M 3975

Sol - Engr  
Feb 63

223,587

Improvement to Hydraulic Shaft Hoisting (Sovershen-  
stvovanie Tekhnologicheskikh Skhem Gidropod'ema),  
by V. I. Mogilevskii.

RUSSIAN, per, Ugol' Ukrainy, Vol V, No 4, 1961,  
pp 23-24.

\*PL-480

Sci -  
Aug 63

Instrument for Checking Condenser Exploders, by  
A. Ya. Nekrasovskiy, V. I. Starokol'tsev.

RUSSIAN, per, Ugol' Ukrainy, Vol V, No 5, 1961,  
p 34.

NLL M. 3435

Sci - Engr

Apr 62

194,011

Comparative Effectiveness of Panel and  
Horizon Development Methods, by S. M.  
Garkavi, P. Z. Zvyagin.

RUSSIAN, par, Ugol' Ukrainy, N VOL IV,  
No 5, 1961, pp 41-42.

NLL M.3287

Sci - Engr

Mar 62

183,708

Improvement to Hydraulic Shaft Hoisting, by  
V. I. Mogilevskiy.

RUSSIAN, per, Ugol' Ukrainy, Vol V, No 4,  
1961, pp 23-24.

\*PL-480  
OTS 63-11092  
PST-9623

Sci

Jan 63



Efficient Chain Link Shape, by V. V. Ugolnikov.

RUSSIAN, var, Ugol' Ukrainy, Vol. V, No 8, 1961,  
pp 27-28.

NLL M 5014

Sci - Engr  
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