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Amer Math Soc  
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Amer Math Soc  
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NABA TT F-8263

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3 pp.

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NLL Ref: 9022.03 1964 (3352)  
(LOW COPY)

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II. ATS-75P62R  
III. Associated Technical Services,  
Inc., East Orange, N. J.

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1962,  
v. 144, no. 4, p. 778-780.

DESCRIPTORS: \*Clouds, Precipitation, Control,  
\*Hail, Production.

(Earth Sciences--Meteorology, TT, v. 8, no. 11)

Office of Technical Services



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V. A. Benderskiy, L. A. Blyumenfeld.  
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NASA TT F-8848

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FORMATION MECHANISM OF SECONDARY PRODUCTS  
IN HIGH TEMPERATURE ETHANE CRACKING.  
[1963] 6p. 3 refs.

Order from OTS or SLA \$1.10

63-18423

Trans. of Akad[emiya] Nauk SSSR. Doklady 1962,  
v. 144 [no. 4] p. 817-820.

DESCRIPTORS: \*Ethanes, \*Ethylenes, \*Methanes,  
\*Acetylenes, \*Propanes, \*Propenes, \*Butanes, \*Butenes,  
\*Butadienes, \*Chemical reactions, Decomposition,  
Pyrolysis.

The work was devoted to investigation of the formation  
mechanism of main secondary products during high  
temperature cracking of ethane to ethylene. Forma-  
tion of  $CH_4$ ,  $C_2H_2$ ,  $C_3H_8$ ,  $C_3H_6$ ,  $C_4H_{10}$ ,  $C_4H_8$  and  
 $C_4H_6$  was investigated. (Author)  
(Chemistry--Organic, TT, v. 10, no. 8)

63-18423

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Office of Technical Services

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RUSSIAN; per, Dok Ak Nauk SSSR, (Chemical Technology  
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Production Through Phytoplankton Photosynthesis in  
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Sci -  
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Results of Electron Microscopy of Regenerating Rat  
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Competitive Relationships Between  $\text{CO}_2$  and Other Oxidants  
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Classification of Polynomial Operations, by  
D. L. Berman, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLIV, No 5,  
1962, pp 951-953.

Amer Math Soc  
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1962, pp 968-970.

Amer Math Soc  
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Differentiability of Fourier Series With Respect  
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On Subdirectly Indecomposable Semigroups, by  
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JPRS 15732

SCI-ENGR  
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COMPLETENESS OF THE SYSTEM OF UNRELIABLE ELEMENTS  
REALIZING THE FUNCTIONS OF THE ALGEBRA OF LOGIC,  
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The Influence of Magnetic Fields on the Shapes of  
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FTD-TT-62-1795

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Apr 63

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Neutralization of Slow Ions and Deactivation of  
Metastable Atoms Close to Metal Surfaces, by  
V. I. Rydnik, B. M. Yavorski, 3 pp.

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AIP

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DEHYDROGENATION OF n-BUTENES. 15 Oct 62, 5p.  
2 refs.

Order from OTS or SLA \$1.10

63-10095

Trans. of Akad[emiya] Nauk SSSR, Dokl[ady] 1962,  
v. 144 [no. 5] p. 1053-1055.

Another trans. is available from ATS \$5.25 as  
ATS-77P64R [1962] 3p.

DESCRIPTORS: \*Butenes, Oxidation, Dehydrogenation,  
\*Butadienes, Synthesis (Chemistry).

(Chemistry--Organic, TT, v. 9, no. 11)

63-10095

I. Kolobikhin, V. A.  
II. Tyuryaev, I. Ya.

Office of Technical Services

The Catalytic Properties of Chelate Polymers,  
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FTD-TT-62-1795

Sci-chem  
apr 63

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Investigation of the Overvoltage Distribution over  
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Manevich.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLIV, No 5,  
1962, pp 1094-1097.

\*SLA

Sci - Electricity,  
Phys  
Oct 62

Ershler, B.V. and Byakov, V.M.  
DE L'APPLICATION DES ÉQUATIONS DE CINÉTI-  
QUE HOMOGÈNE À LA RADIOLYSE AUX HAUTES  
INTENSITÉS D'IRRADIATION (O Primenimosti  
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Vysokikh Intensivnostyakh Izlucheniya) (The Appli-  
cation of Homogenous Kinetic Equations to Radioly-  
sis at High Radiation Intensities). 8p. (foreign text  
included) 8 refs. CNRS-VIII bis 842.  
Order from OTS, ETC or CNRS \$1.10 TT-63-26606

Trans. in French of Akademiya Nauk SSSR. Dokla-  
dy, 1962, v.144, no.5, p.1103-1104.

DESCRIPTORS: Reaction kinetics, \*Radiation  
chemistry, Iron compounds, Sulfates, Electron  
beams.

(Chemistry--Physical, TT, v. 11, no. 11)

TT-63-26606

- I. Ershler, B.V.
- II. Byakov, V.M.
- III. CNRS-VIII bis 842
- IV. Centre National de la  
Recherche Scientifique,  
Paris

Office of Technical Services  
European Translations Centre

Drushchits, V. V. and Shimanaki, V. N.  
ON THE MAGNITUDE OF THE PALEOZOIC ERA  
(Ob Ob'eme Paleozoiaskoi Ery) tr. by Ivan Mitin.  
1963 [11]p. 12 refs.  
Order from OTS or SLA \$1.60 63-19587

Trans. of Akademiya Nauk SSSR, Doklady, 1962,  
v. 144, no. 5, p. 1115-1118.

DESCRIPTORS: \*Paleontology, \*Stratigraphy, Geologic  
age determination, Geology.

It is proposed that the Paleozoic era be divided not into  
three but two parts, and that each of these parts be  
regarded as an independent era. The advisability of  
such a subdivision of the Paleozoic era is supported  
with several reasons.

(Earth Sciences--Geology, TT, v. 10, no. 12)

63-19587

I. Title: Paleozoic  
I. Drushchits, V. V.  
II. Shimanaki, V. N.  
III. Geological Survey,  
Denver, Colo.

Office of Technical Services

Heat Tolerance of Muscles and Cholinesterase of  
Muscle Homogenates of Goldfish From a Hot Spring  
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RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,  
Vol CXLIV, No 5, 1962, pp 1160-1162.

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Sci -  
Nov 63

Accumulation and Excretion of Ruthenium-106, Gerium-144,  
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RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,  
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CB  
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Over-All Radiosensitivity of Organisms and Sensitivity of  
Chromosomal Apparatus of Cells in Vitro, by  
Yu. Ya. Kerkis, L. I. Lebedeva, 4 pp.

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Fate of Catechins in the Animal Organism, by  
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Shift of the Maximum of the Chief Chlorophyll Absorption  
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E. A. Akulova, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,  
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The Role of Scandium Compounds in the Oxidation-  
Reduction Processes of Plants, by . K. Dobrolyubskii,  
4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, VBiol Section,  
Vol CXLIV, No 5, 1962, pp 1174-1177.

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ScSi -  
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Cytophysiological Analysis of Intraspecific  
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B. P. Ushakov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,  
Vol CXLIV, No 5, 1962, pp 1178-1180.

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Sci -  
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A Survey of Fish Leeches (Hirudinea, Phiscicolidae)  
From the Bering and Okhotsk Seas and From the Sea  
of Japan, by V. M. Epshtein,

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,  
Vol CXLIV, No 5, 1962, pp 1181-1184.

CB

Sci -  
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Additional Vanes in the Pterylosis of the Avian  
Ear. Their Structure and Function, by V. D. Il'ichev,  
4 pp.

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Vol CXLIV, No 5, 1962, pp 1185-1188.

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Reflex Changes of the Rhythm of Auricles and Ventricles  
Associated ~~and~~ With Respiration, by E. B. Babskii,  
L. S. Ul'yaninskii, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,  
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The Influence of Polarization of the Semicircular  
Canal on the Monosynaptic Vestibulomotor Effect  
in Pigeons, by I. V. Orlov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Biol Section,  
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