

Mechanism and Kinetics of the Thermal Decomposition  
of Baltic Shale, by A. K. Mityurev.

RUSSIAN, per, Trudy Vses Nauch-Issled Inst po  
Pererabotke Slantsev, No 6, 1958.

Dept of Interior  
TN7, E57, No 116

Sci - Eng

Nov 59

100,586

Organic Compounds of Sulfur in Oil Shale Gas,  
by A. E. Drabkin.

RUSSIAN, per, Trudy Vses Nauch-Issled Inst.  
Pererabotki Slantsev, No 6, 1958, pp 120-130.

ATS RJ-1934

Sci - Chem  
Dec 59

\* PL-430  
Capt of Outboard  
104, 101

Principles of the Theory of Thermal Decomposition  
of Solid Fuels, by A. K. Mityurev, 51 pp.

RUSSIAN, per, Trudy Vses Nauch Issled Inst po  
Pererabot Slant, No 6, 1958, pp 266-293.

CIA/FDD X-4148

Sci - Fuels  
Mar 60

119,204

The Catalytic Cracking of High Molecular Weight Petroleum Feed Stocks Over Natural Catalysts as a Possible Source of Raw Materials for the Manufacture of Lubricating Oils, by A. V. Agafonov, E. T. Abayeva, A. N. A. Okinshevich, 18 pp.

RUSSIAN, per, Trudy Vses Nauch  
Issled Inst po Perebotke Neft i Gazu  
i Polucheniya Iskusst Zhidkogo Topliva,  
Vol VII, 1958, pp 181-202.

ATS-94L36R  
ATS-13-2381

Sci Mar 62

Chemistry and Technology of Combustible Shale and the  
Products of its Distillation.

RUSSIAN, per, Trudy Vses Nauchno-Issledovatel'skogo  
Inst. po Pererabotke Slantsev, No. VI, Leningrad,  
Gostoptskhizdat, 1958, pp. 335.

\*PL 480

OTS 61-11434

Dec 61

Conversion of Solid Fuel To Gases for Power and  
Fuel or Synthesis Use, by V. A. Zhukov, S. L.  
Terekhov.

RUSSIAN, per, Trudy Vsesoyuz. Nauch-issledovat. Inst.  
Pererabotka Stanlsev, No 7, 1959, pp 107-109.

Dept of Interior  
Tr No 1708

Sci

Jan 63

The Determination of Phenolic and Acid Hydroxyl in  
Shale Tars by High Frequency and  
Potentiometric Titration, by G. N. Skrynnikova,  
N. I. Matveyeva.

RUSSIAN, per, Trudy Vsesoyuznogo Nauch-Issled  
Inst po Pererabotke Slantsev, No 7, 1959,  
pp 282-293.

NLL RTS 1850

Sci

Mar 62

183, 727

CHEMISTRY AND TECHNOLOGY OF COMBUSTIBLE  
SHALES AND THEIR PRODUCTS (Khimiya i  
Tekhnologiya Goryuchikh Slantsev i Produktov Ikh  
Pererabotki) tr. by I. Geller. 1962, 284p. 330 refs.  
PL-480 Int.

Order from OTS \$3.00

61-11434

Trans. of Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut po Pererabotke Slantsev. (Trudy USSR) 1958,  
v. 6 [335p.].  
##A partial trans. (p. 120-130) is available from ATS  
\$11.75 as ATS-54L30R [1959] 5p.

DESCRIPTORS: \*Shales, Chemistry, Processing,  
Chemical properties, Gases, Production, Ovens, \*Tar,  
Pyrolysis, Sulfur compounds, \*Phenols, Hydrogenation,  
\*Alcohols, Gasoline, Naphthalenes, Hardness, Titration,  
Oxidation, Reaction kinetics, \*Fuels, Bibliography,  
Conferences.  
(Engineering--Chemical, TT, v. 9, no. 4) (over)

61-11434

- I. PL-480 Int (61-11434)
- II. National Science Founda-  
tion, Washington, D. C.

Office of Technical Services

The Relationship Between the Extent of the Spawning  
Season of Clupea Harengus Membras and Its Fecundity,  
by M. N. Krivobok.  
RUSSIAN, per, Trudy Vses Nauch Issled Inst Rybnogo  
Khoz i Okeanografiy, Vol XLIV, 1961, pp 160-164.

Dept of Agri & Fisheries  
(loan)

Sci - ~~z~~Biol  
Mar 64

252,864

A Study of the Reaction of Fish to Nets, by  
N. E. Aslanova.  
RUSSIAN, per, Trudy Vses Nnauuch Isaied Inst Rybnogo  
Khoz i Okeanografii, Vol XLIX, 1961, pp 165-176.

Dept of Agri & Fisheries  
(Loan)

Sci - Biol  
Mar 64

252,819

Distribution of Alcohol and its By-Products in an  
Indirect Action Rectifying Column, by V. G.  
Artynukhov & A. S. Egorev.  
RUSSIAN, per, Tr. Ukr. ~~much~~-~~isled~~, inst. spir.  
i lik. vod. prom., Vol 7, 1962, pp 41-54.  
NLL Ref: RTS 4069

Sci/Chem  
Feb 68

349,677

A Study of the Carbonisation of Silica  
Catalysts During Catalytic Cracking of  
Hydrocarbons, by N. V. Kal'tsev, and A. I.  
Khalif, 6 pp.

RUSSIAN, per, Trudy Vsesoyuznogo Nauchno-Issledovatel'skogo  
Inst Prirodn. Gaz, 1957, pp 27-34.

Assoc Tech Br  
278262

RJ-1593

Sci - Chem

Apr 59

OS, V. I, No 5

85,914

Recovery of Formaldehyde Vapors From Lean Gases  
At Low Temperatures, by A. K. Ivanov et al.,.

RUSSIAN, per, Trudy Vsesoyuz Nauch. Issledovatel.  
Inst. Prirod. Gazov, No 1, 1957, pp 132-138.

ATS-22724R

RJ-1511

Sci -  
May 59

87,266

Formation of Disperse Carbon in the Thermal  
Decomposition of Hydrocarbons, by P. A. Tesner.

RUSSIAN, per, Trudy Vses. Nauch.-Issled. Inst  
Prirodnykh Gaz, No 3, 1958, pp 34-63.

ATS RJ-1913

Sci - Chem  
Dec 59

104,089

Gudkov, S. F.

A STUDY OF THE PARTIAL OXIDATION OF  
METHANE AND PROPANE BY THE COLD-HOT  
TUBE METHOD. [1961] 9p.  
Order from ATS \$17.30.

ATS-00N49R

Trans. of Vsesoyuz[nyy] Nauch[no]-Issledovatel'skiy  
Inst[itut] Prirodnykh Gazov, Trudy (USSR) 1959,  
no. 6(14) p. 125-136.

DESCRIPTORS: \*Methanes, \*Oxidation, \*Propanes,  
Chemical reactions.

(Chemistry--Physical, TT, v. 6, no. 1)

61-22377

- I. Gudkov, S. F.
- II. ATS-00N49R
- III. Associated Technical Serv-  
ices, Inc., East Orange,  
N. J.

161866

Office of Technical Services

Carbon Black Formation During the  
Thermal Decomposition of Diluted  
Hydrocarbon Mixtures, by P. A. Tesner,  
E. Ya. Robinovich, etal.  
RUSSIAN, per, Trudy Vsesoyuznyi Nauchno-  
Issledovatel'skii Institut Prirodnykh Gazov,  
No 12(20), 1961, pp 27-41.  
SLA TT 64-30145

May 67

327,186

Kel'tsev, V. V. and Vinnikova, N. I.  
THE CATALYTIC DEHYDROGENATION OF PROPANE  
AND ETHANE. [1963] [9]p. 4 refs.  
Order 1. TS or SLA \$1.10

63-18882

Trans. of Vsesoyuzn[yy] Nauch[nyy]-Issledovatel'skii  
Institut Prirodnykh Gazov. Trudy (USSR) 1961,  
no. 12(20) p. 187-194.

DESCRIPTORS: \*Propanes, \*Ethanes, Reaction  
kinetics, \*Dehydrogenation, Propenes, Catalysis.

Formation and depositing of carbon on the catalyst di-  
minish with reduced space velocity of the process of  
propane dehydrogenation under conditions of introduc-  
tion of additional hydrogen into the reaction zone, which  
permits increasing by 8-10 vol % the average yield in  
propylene; and up to 40-50 hours the catalysts work be-  
fore regeneration. The method developed for dehydro-  
genation of propane in a fixed layer of Al-Cr catalyst  
(Chemistry--Physical, TT, v. 10, no. 11) (over)

63-18882

I. Kel'tsev, V. V.  
N. Vinnikova, N. I.

Office of Technical Services

Khudyakov, O. F. and Velikovskii, A. S.  
EXPERIMENTAL STUDY OF GAS RECOVERY DURING  
DISPLACEMENT OF GAS BY WATER (IN LINEAR RES-  
ERVOIR MODELS). [1964] 21p  
Order from ATS \$27.50

ATS-25Q74R

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii]  
Inst. [ituz.] P. Trodn [ykh] Gazov. Trudy (USSR) 1962,  
no. 17[25] p. 75-95.

TT-64-12764

- I. Khudyakov, O. F.
- II. Velikovskii, A. S.
- III. ATS-25Q74R
- IV. Associated Technical  
Services, Inc., East  
Orange, N. J.

(Earth Sciences--Geology, TT, v. 12, no. 1)

Office of Technical Services

The Possibility of Determining True Temperatures of  
Mineral-Forming Solutions, by N. P. Yermakov, V. A.  
Kalyuznyy, 6 pp.

RUSSIAN, per, Trudy Vses Nauch-Issledovatel'sky  
Inst P'yezo-opticheskogo Mineralnogo Sprava (VNIIP),  
Issledovaniya Mineraloobrazuyushchikh Rastvorov,  
Vol I, No 2, 1957, pp 41-51.

Amer Geological Inst  
Internatl Geology Review  
Vol III, No 8

167,630

Sci - Phys

Sep 61

The Microscope for Visual Polythermal Investigations and for Macrophotography, by I.N. Anikin.  
RUSSIAN, per, Trudy Vsesoyuznyi Nauchno-Issledovatel'skiy Institut P'ezoopticheskogo Mineralnogo Sy'rya, Vol 3, No 2, 1960, pp 119-121.  
SLA TT-64-16378

Sci/B&M  
Jul 66

305,980

Dynamics of Pigment Content in Phytoplankton  
in Fish Ponds, by H. F. Lavrovskaya.

RUSSIAN, per, Trudy Vses Nauch-issled Prud  
Rybnogo Khoz, Vol 15, No 18, pp 196-205.

MLL Ref:9024.912 (1157)

Sci-B&M  
Feb 70

401,549

The Accumulation of Sugar in Various  
Forms and Stains of Beet and Prospects  
for a Further Increase in the Sugar  
Content of Sugarbeet, by A. S. Okanenko.  
RUSSIAN, per, Trudy Vses Nauchn Issled  
Inst Sakharney Svekly, Vol 35, 1957,  
pp 29-55.

\*CFSTI TT 70-57117/6

Sci-B&M  
Mar 70

The Sugar Content of the Roots of Sugar-  
beets, by A. Ye. Maksimovich.

RUSSIAN, per, Trudy Vses Nauchn Issled  
Inst Sakharnoy Svekly, Vol 35, 1957,  
pp 57-72.

\*CFSTI TT 70-57117/5

Sci-BGM

Mar 70

Features of Growth and Cell Division in  
High-sugar and High-yield Sugar Beet  
Varieties, by S. Ye. Gomolyako.

RUSSIAN, per, Trudy Vses Nauchn Issled  
Inst Sakharney SveRly, Vol 35, 1957,  
pp 87-95.

\*CFSTI TT 70-57117/3

Sci-BQM

Mar 70

Intake of Elements of Root Nutrition into  
Sugar Beet During the Initial Phases of  
Growth, by A. Ye. Maksimovich.

RUSSIAN, per, Trudy Vses Nauchn Issled  
Inst Sakharney Svekly, Vol 35, 1967,  
pp 145-149.

\*CFSTI TT 70-57117/4

Sci-B&M  
Mar 70

The Structure of the Roots of Sugar Beets  
with Different Schedules of Mineral Nu-  
trition, by T. A. Filatova.

RUSSIAN, per, Trudy Vses Nauchn Issled  
Inst Sakharnoy Svekly, Vol 35, 1957,  
pp 175-198.

\*CFSTI TT 70-57117/2

Sci-Agri

Mar 70

Solomin, N. V. and Galdina, N. M.  
INVESTIGATION OF THE CORROSION OF REFRAC-  
TORY MATERIALS BY GLASS COMPOSITIONS  
(Issledovanie Raz"ekaniya Ogneuporov Steklomassami).  
[1962] [20]p.

Order from OTS or SLA \$1.60

62-18205

Trans. of Vsesoyuznyy Nauchno-Issledovatel'skiy  
Institut Stekla. [Title] (USSR) 1956, v. 36, p. 43-50.

DESCRIPTORS: •Refractory materials, Corrosion,  
•Glass, Melting, •Quartz, Chemical reactions.

(Metallurgy--Corrosion, TT, v. 9, no. 10)

62-18205

I. Solomin, N. V.  
II. Galdina, N. M.

Office of Technical Services

Zabrodskii, A. G. and Vitkovskaya, V. A.  
AMINO ACID-SUGAR (MELANOIDIN) REACTION AND  
ITS ROLE IN CHEMISTRY AND TECHNOLOGY OF  
FOOD PRODUCTS. [1963] [28]p. 73 refs.  
Order from OTS or SLA \$2.60 63-18401

Trans. of Vsesoyuz[ny] Nauch[no]-Issled[ovatel'skii]  
Inst[itut] Spirt[ovoi] i Likero. Vodoch[noi] Prom[yshlen-  
nosti]. Kiev[skii] Filial. Trudy (USSR) 1958, v. 4,  
p. 57-73.

DESCRIPTORS: \*Amino acids, \*Carbohydrates, \*Food,  
Chemical reactions, Oxidation-reduction reactions,  
Physical properties, Proteins,

The reaction of amino acids with sugars is discussed  
with reference to the production of melanoidines in food  
products. The following topics are included: chemical  
nature, components, and physical characteristics of the  
Maillard reaction. The effect of the reaction on the  
(Chemistry--Organic, TT, v. 10, no. 12) (over)

63-18401

1. Title: Melanoidines
2. Title: Maillard reaction
1. Zabrodskii, A. G.
- II. Vitkovskaya, V. A.

Office of Technical Services

Smirnov, A. L.  
CHANGES IN THE COMPOSITION OF THE TOBACCO  
LEAF DURING ITS DEVELOPMENT. [1962] 52p.  
Order from K-H \$65.00 K-H-3393-b

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Malchorkovoi Promyshlennosti.  
Trudy] (USSR) 1926, v. 29, p. 3-55.

DESCRIPTORS: Chemical analysis, \*Tobacco, Plants  
(Botany), \*Growth

(Biological Sciences--Biochemistry, 1T, v. 10, no. 3)

62-22753

- I. Smirnov, A. L.
- II. K-H-3393-b
- III. Kresge-Hooker Science  
Library Association,  
Detroit, Mich.

Office of Technical Services

Smirnov, A. I., Brobglav, M. A., and Erygin, P. S.  
AGE CHARACTERISTICS OF TOBACCO LEAVES.

[1962] 125p.

Order from K-II \$156.25

K-II 3881-b

Trans. of [Vsesoyuznyi Nauchno-issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1928, v. 46, p. 1-49.

DESCRIPTORS: \*Age, \*Tobacco.

(Biological Sciences--Botany, TT, v. 9, no. 5)

62-22753

I. Smirnov, A. I.

II. Brobglav, M. A.

III. Erygin, P. S.

IV. K-II-3881-b

V. Kresge-Hooker Science

Library Associates,

Detroit, Mich.

Office of Technical Services

Pyantnitskii, M. P.  
CHEMICAL CHARACTERISTICS OF THE IRRIGATED  
AMERICAN-TYPE TOBACCOS OF CRIMEA. [1962]  
31p.

Order from K-H \$38.75

K-H-5454

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1929, v. 49, p. 83-98.

DESCRIPTORS: \*Tobacco, \*Chemical properties,  
Chemical analysis.

(Chemistry--Analytical, TT, v. 9, no. 5)

62-22650

I. Pyantnitskii, M. P.  
II. K-H-5454  
III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

Il'in, G. S.  
INVESTIGATION OF PROCESS OF FORMATION OF  
NICOTINE DURING GERMINATION OF TOBACCO  
SEEDS. [1962] 41p.  
Order from K-H \$51.25 K-H 3998-b

Trans. from [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1929, v. 57.

DESCRIPTORS: \*Nicotine, Biosynthesis, \*Tobacco,  
\*Seeds.

(Biological Sciences--Botany, TT, v. 8, no. 10)

62-22453

I. Il'in, G. S.  
II. K-H-3998-b  
III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

Kovalenko, E. I.  
THE NICOTINE CONTENT OF TOBACCO SMOKE.  
[1962] 16p.  
Order from K-H \$20.00

K-H 5461-c

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1931, v. 81, p. 77-85.

DESCRIPTORS: \*Nicotine, \*Tobacco, \*Smokes.

(Chemistry--Analytical, TT, v. 8, no. 10)

62-22518

I. Kovalenko, E. I.  
II. K-H-5461-c  
III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

Zapol'skii, V. V.  
QUANTITATIVE SEPARATION OF AMMONIA FROM  
NICOTINE. [1962] 10p.  
Order from K-H \$12.50 K-H-5461-g

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1931, v. 81, p. 87-92.

DESCRIPTORS: Separation, Chemical analysis,  
\*Nicotine, \*Ammonia.

(Chemistry--Analytical, TT, v. 9, no. 5)

62-22892

I. Zapol'skii, V. V.  
II. K-H-5461-g  
III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

Smirnov, A. P.  
CONTRIBUTION TO QUESTION OF STRENGTH AND  
ELASTICITY OF TOBACCO LEAF. [1962] 15p.  
Order from K-H \$18.75 K-H-5461-e

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1931, v. 81, p. 93-102.

DESCRIPTORS : \*Tensile properties, \*Elasticity,  
\*Tobacco, Plants.

(Biological Sciences--Botany, TT, v. 9, no. 5)

62-22751

- I. Smirnov, A. P.
- II. K-H-5461-e
- III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

• Pakhomov, E. and Kolodyaznaya, O.  
THE METHODS OF DETERMINING POTASSIUM IN  
TOBACCO. [1962] 20p.  
Order from K-H \$25.00 K-H-5461-d

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) [1931] v. 81, p. 103-111.

DESCRIPTORS: Determination, \*Potassium, \*Tobacco,  
Chemical analysis.

(Chemistry--Analytical, TT, v. 9, no. 5)

62-22619

- I. Pakhomov, E.
- II. Kolodyaznaya, O.
- III. K-H-5461-d
- IV. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

Zapolskii, V. V.  
MERCURIODIDES OF PYRIDINE, REPT. II (I). [1962]  
10p.  
Order from K-H \$12.50 K-H-5461-f

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti,  
Trudy] (USSR) 1931, v. 81, p. 113-118.

DESCRIPTORS: \*Mercury compounds, \*Iodides,  
\*Pyridines.

(Chemistry--Organic, TT, v. 9, no. 5)

62-22893

I. Zapolskii, V. V.  
II. K-H-5461-f  
III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

Timoshenko, S. V.  
AMOUNTS AND FREQUENCIES OF IRRIGATION  
FOR TOBACCO (Normy i Sroki Polivov Tabaka) tr.  
by Mrs. W. Adams. [1962] 10p.  
Order from OTS or SLA \$1.10 62-10920

Abridged trans. of [Vsesoyuznyi Nauchno-  
Issledovatel'skii Institut Tabachnoi i Makhorkovoi  
Promyshlennosti. Trudy] (USSR) 1935, v. 120,  
p. 71-99.

DESCRIPTORS: Plants, Tobacco, Irrigation systems.

(Unannounced)

62-10920

1. Timoshenko, S. V.

Office of Technical Services

Lukyanov, V. S. and Golovko, M. D.  
CALCULATION OF THE DEPTH OF FREEZE IN  
SOILS, CHAPS. 1-2 (Raschet Glubiny Promerzaniya  
Gruntov). [1961] [200]p.  
Order from OTS or SLA \$13.50

61-20440

Trans. from Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Transportnogo Stroitel'stva, Trudy (USSR)  
1957, v. 23.

DESCRIPTORS: \*Freezing, \*Soils, \*Depth indicators,  
Mathematical analysis, Moisture, Determination,  
Specifications, Heat transfer, Hydrology, Founda-  
tions (Structures), Snow, Hydraulic systems,  
Integrators, Buildings

## Contents:

The mathematical theory of the freezing of moist  
soils  
(Earth Sciences--Frost, TT, v. 7, no. 5) (over)

61-20440

I. Lukyanov, V. S.  
II. Golovko, M. D.

Office of Technical Services

Investigations Into Earth Cutters and Trials on  
New Designs of Dragline Buckets, by A. I.  
Fedarev.

RUSSIAN, per, Trudy Vsesoyuznogo Nauchno-  
Issledovatel'skogo Instituta Transportnogo Stroitel'  
Stro, No 41, 1961.

ISI

Sci - Engr  
Aug 63

341,378

Obtaining Molybdenum Disilicide and Investigating  
Some of Its Properties, by I. S. Brokhin, I. S.  
Zolotarev, A. I. Baranov, 18 pp.

RUSSIAN, per, Trudy Vsesoyuznyy Nauchno-Issledovatskiy  
Institut Tverdnykh Splavov, Tverdyye Splavy, No 2,  
1960, pp 24-36. 2.8.63

\*FTD-TT-63-120

Sci - Min/Met  
Jan 63

Kirsanov, A. T.

MOBILITY OF K IN THE SOIL AS AFFECTED BY  
PLANTS AND FERTILIZERS (Izmenenie Podvizhnosti  
k v Pochve pod Vliyaniem Rastenii i Udobrenii) tr. by  
M. Slade. [1961] [38]p. (foreign text included).  
[CSIRO] Trans. no. 4734.

Order from OTS or SLA \$3. 60

60-17775

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii]  
Inst[itut] Udob[renii, Agrotekhniki i Agropochvedeniya,  
Moscow]. Leningrad Otdelenie Trudy (USSR) 1936,  
v. 45, p. 67-84.

DESCRIPTORS: Soils, \*Potassium, \*Fertilizers,  
Plants, Calcium compounds, Nitrogen compounds,  
Phosphorous compounds

Potassium introduced without other fertilizers remains  
almost unused by the plant, and 60 to 80% of it is con-  
(Agriculture, TT, v. 7, no. 4) (over)

60-17775

I. Kirsanov, A. T.

II. CSIRO-4734

III. Commonwealth Scientific  
and Industrial Research  
Organization (Australia)

Office of Technical Services

(SF-2142)

THE VIABILITY OF PASTEURILLAE SUSPENDED IN AIR,  
BY V S YARNYKH, 14 PP.

RUSSIAN, PER, TRUDY VSES NAUCH-ISSLED INSTITUT  
VETERINARII I EKTOPARAZITOLOG, NO 12, 1957,  
PP 16-210

JPRS 12897

SCI - MED  
MAR 62

187,519

Seasonal Dynamics of Cattle Demodectosis and  
Experiments in the Treatment of This Invasion, by  
D. K. Polyakov.

RUSSIAN, per, Trudy Vsesoyuznyi Nauch-Issled  
Inst Veterinarnoi Sanitarii i Ektoparazitologii,  
Vol XIII, 1958, pp 107-116.

OTS 61-27444

Sci  
Mar 62

Vol VII, No 2

189,556

Polyakov, D. K.  
MORPHOLOGICAL CHANGES IN THE SKIN OF  
CATTLE UNDER THE EFFECT OF DEMODEX  
BOVIS AS A CHARACTERISTIC OF THE MANY  
PROCESSES IN THE BIOLOGY OF THE PARASITE,  
rr. by P. A. Kazakov. [1961] 3p. [CSIRO Trans.]5409.  
Order from OTS or SLA \$1.10 61-27445

Trans. of Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Veterinarnoi Sanitarii i Ektoparazitologii.  
Trudy (USSR) 1959, v. 14, p. 34-35.

DESCRIPTORS: \*Mites, \*Cattle, \*Skin, Parasites,  
Growth.

The period of life of the colony of D. bovis (commu-  
nity of mites) is subject to considerable changes in  
time which can be traced by systematic clinical ex-  
aminations of animals. Colonies of D. bovis detected  
(Biological Sciences--Pathology, TT, v. 7, no. 7) (over)

61-27445

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- II. CSIRO Trans-5409
- III. Commonwealth Scientific  
and Industrial Research  
Organization (Australia)

Office of Technical Services

About Pathogenesis and Pathoanatomic Changes in Case of  
Demodecosis in Cattle, by M. V. Krotova.  
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\*NTIS TT 71-51022

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(NY-6519)

Decontamination of Fodder Contaminated With the  
Anthrax Pathogen, by Ye. Sh. Akopyan, 10 pp.

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Instit Veterinarnoy Snaitsii, Vol XV, No 15,  
1959, pp 204-212.

JPRS 9562

Sci - Med

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et al. ....

RUSSIAN, per, Trudy Vses Nauch Issledovatel  
Vitamin Inst, Vol IV, 1953, pp 211-215.

Assoc Tech Sv RJ-504  
\$8.75

Sci - Chemistry  
Jan 57 CTS

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Determining Pore Pressure in Slightly  
Permeable Soils in the Body of a Dam  
During the Process of Their Consolida-  
tion, by A. A. Nichiporovich.  
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Kanalizatsii Gidrotekhnicheskikh  
Sooruzhenii i Inzhenernoi Gidrogeologii.  
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NTC 72-10246-13M

Apr 72

Some Problems of Field Studies on High  
Rock-Fill Dams, by Yu. I. Svateev.  
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Issledovatel'skii Institut Vodosnabzheniya  
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Sooruzhenii i Inzhenernoi Gidrologii.  
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Sooruzhenii. Trudy, No 4, 1963, pp 77-88.  
NTC 72-10251-13M

Apr 72

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1953 i 1954 GG). 13 Feb 62, 36p. 249 refs.

Trans. A-1325.

Order from OTS or SLA \$3.60

62-23298

Trans. of Vsesoyuznyi Nauchno-Issledovatel'skii  
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p. 207-226.

DESCRIPTORS: Scientific research, \*Plants (Botany),  
Bibliographies.

(Agriculture--Plant Cultivation, TT, v. 10, no. 5)

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No 23, 1964, pp 201-210.

\*NTIS TT 71-51026

Dec 71

Effect of Load and Composition of Initial  
Material on the Efficiency of Sieve Performance  
in Cleaning Grain Mixtures, by G. S. Demin,  
A. R. Demidov, 27 p.

<sup>Trudy</sup>  
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SLA 59-17116

Sci  
Feb 60  
Vol 2, No 9

107082

Developing a Control Method for Insect Pests of Stored Grain With the Aid of Ionizing Radiation, by A. A. Peredel'skiy, L. Z. Rodionova, A. V. Bibergerl', P. D. Rumiantsev, E. S. Pertsovskiy.

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CIA 9075536

USDA

Sci - Biology  
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Use of Polyploidy in the Breeding of Wheat in  
General, and in Particular for its Protein, by  
V. E. Pisarev.

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Prod Ego Pererabotki, Vol XXIV, 1958, pp 62-75.  
CIA 9075537

USDA

Sci - Biology  
Apr 61

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Endurance of Elements of Welded Bridge Constructions  
Under Variable and Reversible Stresses, by B. N.  
Duchinskiy. DECL

RUSSIAN, per, Trudy Vses Nauch-Issled Inst Zhelezno-  
Dorozh Stroitel i Proektirovaniya, No 20, 1956,  
pp 86-162.

DSIR LNU RES 1184

(20s.)

Sci - Engr  
May 60

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Tyunova, N. A.  
CONCERNING THE FRACTIONATION OF GLIADIN  
(K Voprosu o Fraksionirovanii Gliadina). Aug 62  
[13]p. 13 refs. RTS 2116.  
Order from OTS or SLA \$1.60 62-32491

Trans. of Vsesoyuznyi Nauchno-Issledovatel'skii  
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(USSR) 1961, v. 41, p. 17-25.

DESCRIPTORS: \*Fractionation, \*Gliadins, Wheat,  
\*Flour, Gluten, Proteins.

Analytical salting out of the alkali extract of wheat  
flour gluten proteins was carried out by the Zelenskii  
method. Gliadin was fractionated by maintaining al-  
cohol solutions of it at low temperatures (5°). It was  
shown by the diffuse salting out method that the com-  
ponents which salt out most readily (to 1% of satura-  
(Chemistry--Analytical, TT, v. 8, no. 10) (over)

62-32491

I. Tyunova, N. A.  
II. RTS-2116  
III. National Lending Library  
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*NL & RTS 2116*

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LATERAL WEAR OF RAILS ON CURVES (Bokovoi  
Izнос Rel'sov na Krivyykh) tr. by V. Poppe. 1963, 137p  
45 refs NRCC Technical Trans. 1079.  
Order from NRCC \$7.00 NRCC C-4493

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stitut Zheleznodorozhnogo Transporta. Trudy (USSR)  
1961, no. 207, 127p.

DESCRIPTORS: Railroads, \*Wear resistance, \*Ve-  
hicle wheels, \*Railroad tracks, Curved profiles, Load  
distribution, Railroad cars, Locomotives, Mechanical  
properties, Test methods, Tests

NLL Ref: 8732 1963 (1079) (LOAN)

(Machinery--Transport, TT, v. 10, no. 10)

63-22729

I. Andrievskii, S. M.  
II. NRCC TT-1079  
III. NRCC C-4493  
IV. National Research  
Council of Canada

Office of Technical Services

The Friction Surface of Plastics Under  
Large Magnification, by Sh. M. Bilik and  
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pp 5-11.  
NLL 9022.84B (1304)

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Apr 67

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On the Similarity of Systems of Regulating Gas  
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z PTD-TT-62-1815

Sci-Engr  
May 63

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Adhesion of Certain Polyamide Films to Metals  
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18 pp.

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nogo Transporta. Trudy, No 267, 1963,  
pp 12-24. P10034:1067

FTD-MT-65-486

Sci-Materials  
Jan 68

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Basis of Requirements for Quality of Atomization  
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by L. V. Kulagin & S. S. Okhotnikov, 16 pp.  
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Sci/Prop & Fuels  
Jan 68

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Analysis of Methods of Determining Losses of Fuel  
Due to Mechanical Incompleteness of Combustion, by  
L. V. Kulagin, K. F. Dobrikov, et al. 17 pp.  
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Sci/Propulsion & Fuels  
Oct 66

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Results of Operating Tests of the First  
Domestically Produced G1-01 Gas-Turbine  
Locomotive, by  
M. Ye. Meylikhov, I. M. Mitrofanov, 24 pp.  
RUSSIAN, per, Trudy. Moscow, Vsesoyuznyy  
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1964, pp 14-34.  
AIR/FTD/HT-23-1030-67

Sci/Mech

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Results of Stand Tests of a Gas-Turbine  
Engine Rated at 3500 HP, by  
I. M. Mitrofanov, V. M. Sosnovskiy, 13 pp.  
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Nauchno-Issledovatel'skiy Institut  
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1964, pp 48-59.  
AIR/FTD/HT-23-1030-67

Sci/Prop & Fuels  
Jan 69

353,199

Effect of the Volume of the System on the  
Pickup of a Twin-Shaft Gas-Turbine Engine,  
by Ye. T. Bartosh, 9 pp.

RUSSIAN, per, Trudy. Moscow, Vsesoyuznyy  
Nauchno-Issledovatel'skiy Institut  
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AIR/FTD/HT-23-1030-67

Sci/Prop & Fuels  
Jan 69

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Operation of Cascade Contact Seals, by  
A. M. Yevtushenko. 22 pp.  
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P100052266  
FTD-INT-66-281

Sci/Materials  
Oct 66

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Production of Unsaturated Fatty Alcohols by the  
Hydrogenation of Unsaturated Acids and Their  
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No 20, 1960, pp 216-222.  
ATS-RJ-4839

Sci  
Dec 68

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their Esters, by D. M. Maiorov, B. Ya. Sterlin.  
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ATS-54885R

Sci-Chem  
Aug 66

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Removal of Free Fatty Acids From Oils  
by the Carbamide Method, by N. V. Vengerova,  
A. I. Petrova.  
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NLL Ref: 5828.4 1965 (5795)

Sci-Chem  
June 66

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Preliminary Refining of High-Acid Cotton-  
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RUSSIAN, per, Trudy Vses. Nauch-Issled. Inst.  
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NLL Ref: 5828.4 1965 (5794)

SSSR Agric  
June 66

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Selection of Soporific Substances Suitable for  
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RUSSIAN, per, Trudy Vsesoyuznyi Nauchno-Issledo-  
vatel'skii Institut Zhivotnovodstva Syr'ya i  
Pushniny, Vol 18, No 9, 1959, pp 129-146.  
SLA TT-64-19859

Sci/B&M  
Jun 67

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Abundance of the Squirrel and Measures for Increasing  
Its Population and Commercial Exploitation, by  
I. D. Kiris.

RUSSIAN, per, Trudy Vses Nauchn-Issled Inst Zhivot Syr'ya  
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\*NTIS TT 72-51067

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The Influence of Repeated Reproductions on the Quality  
of Recordings on Magnetic Tape, by V. A. Samoskiy,  
9 pp.

~~Vsesoyuznyy Nauch-Issled Inst Zvukozapisi,~~  
RUSSIAN, per, Trudy No 7, 1960, pp 35-41.

CIA/FDD XX-1229

NOT RELEASABLE TO FOREIGN NATIONALS

Sci

Aug 62

211, 435

USIE INTERNAL USE ONLY

Investigation of Electron Sensitivity of Photo-  
graphic Emulsions<sup>1-2</sup>, by K. S. Bogomolov, E. P.  
Dobronerova, V. N. Zharkov, 14 pp.

RUSSIAN, per, Trudy Vsesoyuznogo Nauchno-Issled. Kinofoto-  
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NLL M.5424

CIA/FDD XX-776

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Sci - Physics

Mar 60

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LC 60-10576  
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Effect of the Structure and Some Physicochemical  
Properties of Polymethine Dyes on Their Sensitizing  
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Kutansen, K. G. Sveshnikov, Z. P. Sytnik, 19 pp.

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No 10(20), 1957, pp 55-67.

*NLL M.2432*

CIA/FDD XX-777

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Sci - Physics

Mar 60

USE INTERNAL USE ONLY

IC or SIA 60-10575

Vol III, No 4

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*Vol III, No 4*

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Investigation of Thermal Relationships and the  
Activation Energy of Photographic Development,  
V. I. Sheberstov.

USSIAN, per, Trudy Vsesoyuznogo Nauch-Issled  
Fotofoto Instituta, No 10 (20), 1957, pp 77-93.

OSIR LLJ N.1580  
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ci - Phys

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Use of Thick Layer Photoplates for Nuclear Research,  
by K. S. Bogomolov, 6 pp.

RUSSIAN, per, Trudy Vses Nauch Issled Kinofoto,  
No 11(21), 1957, pp 3-5.

AEC UCRJ. Tr-450

Sci - Nuc Phys  
Jan 62  
List 60

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The Theoretical Bases for the Preparation of  
High Quality, Fine-Grain Photographic Emulsions  
(The Principle of H Homogeneity), by K. S.  
Bogomolov, 23 pp.

RUSSIAN, per, Trudy Vses Nauch-Issled Kinofotoinst,  
No 11, 1958 1957, pp 6-16.

AEC UCRL-Trans-451

Sci  
Aug 61

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163, 246

An Investigation Into the Process of Recrystallization  
of Grains of Haloidal Silver in Emulsions for  
Nuclear Research, by V. M. Uvarova, M. F.  
Rodicheva, K. H. Romanovskaya, 28 pp.

RUSSIAN, per, Trudy Vses Nauch-Issled Kinafototoinst,  
No 11 (21), 1957, pp 17-29.

AEC UCRL-Trans-452

Sci - Phys  
Aug 61

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A Study on the Causes of Appearance of Dichroic  
(Colored) Fog and Black Film Occurring in the  
Process of Developing Thick-Layered Nuclear  
Plates, by V. M. Uvarova, M. F. Rodicheva, 15 pp.

RUSSIAN, per, Trudy Vses Nauch-Issled Kinafototoinst.,  
No 11 (21), 1957, pp ~~30-35~~ 30-35.

AEC UCRL-Trans-453

Sci - Phys  
Aug 61

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A Study of the Sulfate Precipitation Process of  
Nuclear Emulsions, by V. M. Uvarova,  
M. Yu. Deberdayev, E. I. Scherbakova, 19 pp.

RUSSIAN, per, Trudy Vses Nauch-Issled Kinafototoinst.  
No 11 (21), 1957, pp 36-42.

AEC UCRL-Trans-454

Sci - Phys  
Aug 61

165, 339

Investigation of the Swelling Capacity of  
Ilford G-5 and Mikfi Type-R Plates, by V. M.  
Uvarova, N. V. Anosova, 6 pp.

RUSSIAN, per, Trudy Vsesoyuz Nauch-Issled Kinofoto-  
Inst, No 11, (21), 1957, pp 43-48.

AEC UCRL-Trans-455

Sci - Phys  
May 61

150/878

Influence of a Sensitizing Solution on the  
Recrystallization of Silver Bromide and on  
Photographic Properties of Nuclear Emulsions, by  
A. A. Pankova, K. S. Bogomolov, 14 pp.

RUSSIAN, per, Trudy Vsesoyuz. Nauch.-Issled.  
Kinofotoinst, No 11, (21), 1957, pp 49-57.

AEC UCRL-Trans-456

Sci - Phys  
May 61

150,879

Nikfi Photo Materials for Nuclear Studies of  
Types A-2, Ya-2 and K, by K. S. Bogomolov,  
A. A. Sirotinskaya, M. Yu. Deberdeyev, V. M.  
Uvarova, 22 pp.

RUSSIAN, per, Trudy Vsesoyuz Nauch-Issledovatel.  
Kinofotoinst, ~~Rebort~~ No 11, (21), 1957,  
pp 58-65.

AEC UCRL-Trans-457

Sci - Phys  
May 61

150,880

Ekki Photoplates of Types T-1, T-2, and T-3  
for Discriminating Traces of Singly-Charged  
Particles and Alpha-Particles, by A. A.  
Sirotinskaya, K. A. Bogomolov, 16 pp.

RUSSIAN, per, Trudy Vsesoyuz Nauch-Issled  
Kinofotoinst, No 11, (21), 1957, pp 66-72.

ABJ UCRL-Trans-458

Sci - Phys  
May 61

150,881

The Scientific Principles of a Rational Formula for  
Nuclear Photoemulsions That Record Traces of  
Particles With Minimum Ionization, by K. S.  
Bogomolov, A. A. Sirotinskaya, M. Yu. Debordeyev,  
V. M. Uvarova, 45 pp.

RUSSIAN, per, Trudy Vses Nauch-Issled Kinofotoinat.  
No 11, 1957, pp 73-86.

AEC UCRL-Trans-459

Sci  
Aug 61

665  
163,798

Bogomolov, K. S., Deberdeyev, M. Yu. and others.  
TYPE MP AND MK PHOTOMATERIALS FOR MICRO-  
AUTORADIOGRAPHY, tr. by Ester Goldberg, 1961,  
11p.

Order from LC or SLA ml\$2.40, ph\$3.30

UCRL Trans-460

Trans. of Vsesoyuznyy Nauchno-Issledovatskiy  
KinoFotoInstitut. Trudy (USSR) 1957, no. 11(21)  
p. 87-93.

Discussions are presented on (1) the characteristics of  
type MK and MP photographic materials, (2) radio-  
graphic photofilms on flexible backing, (3) a method for  
applying emulsion film to geological sections, metal  
compounds, and histological slices, and (4) photo-  
graphic materials with removable film.

(Materials--Photographic, TT, v. 5, no. 11)

61-15896

1. Autoradiography--  
Materials
2. Photographic film--  
Analysis
- I. Bogomolov, K. S.
- II. Deberdeyev, M. Yu.
- III. UCRL Trans-460
- IV. Lawrence Radiation Lab.,  
U. of California,  
Berkeley

160975

Office of Technical Services

Investigation of the Processes of Color Development,  
by A. S. Kheinman, V. S. Chel'tsov, 10 pp.

RUSSIAN, per, Trudy Vses Nauch-Issledovatel Kinofot,  
No 29, 1959, pp 5-15.

CIA/FDD XX-1148  
NOT RELEASABLE TO FOREIGN NATIONALS

Sci

Also ATS-11N55R  
\$17.75

May 62

USIB INTERNAL USE ONLY

Sharlandzhiev, S. P. and Chel'tsov, V. S.  
CHARACTERIZATION OF THE REACTIVITY OF  
NON-DIFFUSING COLOR COUPLERS BY THE AC-  
TIVATION ENERGY OF THE COLOR DEVELOP-  
MENT PROCESS. 1961, 7p.  
Order from CTT \$14.00

CTT-61K110

Trans. of [Vsesoyuznyi] N[auchno]-I[ssledovatel'skii]  
K[lini]f[oto] Institut. Trudy (USSR) 1959, no. 29,  
p. 23-32.

DESCRIPTORS: \*Color photography, Photography,  
Color film, Processing, Energy, \*Photographic  
chemicals, Chemical reactions, Photographic  
emulsions.

(Materials--Photographic, TT, v. 8, no. 1)

62-12984

- I. Sharlandzhiev, S. P.
- II. Chel'tsov, V. S.
- III. CTT-61K110
- IV. Columbia Technical  
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N. Y.

Office of Technical Services

Investigation of the Processing of Negative-Type Color  
Film, by Ts. S. Arnol'd, 14 pp.

RUSSIAN, per, Trudy Vsesoyuz Nauch Issledovatel  
Kinofotoinst, No 29, 1959, pp 43-58.

CIA/FDD XX-1094

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Phys

ATS-09455R

Jan 62

179,042

USIB INTERNAL USE ONLY

Hypersensitization of Nuclear Photographic Emulsions,  
by K. S. Bogomolov, I. A. Ruditskaya, I. F. Razorenova  
13 pp.

RUSSIAN, per, Trudy Vsesoyuz Nauch Issledovatel  
Kinofotoinst, No 32, 1959, pp 5-18.

CIA/FDD XX-1093

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Phys

Jan 62

USIB INTERNAL USE ONLY

ATS-3915615  
178, 517

Zelikman, V. L. and Dmitrieva, V. A.  
REVERSIBLE AGGREGATION OF ULTRAFINEGRAIN  
EMULSIONS. 1961, 39.  
Order from CTT \$6.00

CTT-61K112

Trans. of [Vsesoyuznyi] N[auchno]-I[ssledovatel'skii]  
Kl[ub]o[ro]o[grafii] institut. Priroda (USSR) 1960, no. 35,  
p. 60-63.

DESCRIPTORS: Photography. \*Photographic emulsions

(Materials--Photographic, TT, v. 8, no. 1)

62-12990 Rev.

- I. Zelikman, V. L.
- II. Dmitrieva, V. A.
- III. CTT-61K112
- IV. Columbia Technical Trans-  
lations, White Plains, N. Y.

Office of Technical Services

Deryagin, B. V. and Levi, S. M.  
USE OF A LIMITING BLADE IN APPLYING  
EMULSION LAYERS. 1961, 4p.  
Order from CTT \$8.00

CTT-6IK113

Trans. of Vsesoyuznyi Nauchno-Issledovatel'skii  
Klini (Foto) Institut, Trudy (USSR) 1960, no. 35,  
p. 64-69.

DESCRIPTORS: Photography, \*Photographic emulsions,  
Photographic films, Processing.

(Materials--Photographic, TT, v. 8, no. 1)

62-12974

- I. Deryagin, B. V.
- II. Levi, S. M.
- III. CTT-6IK113
- IV. Columbia Technical  
Translations, White Plains,  
N. Y.

Office of Technical Services

Liorber, B. G., Shchelkina, E. P. and others.  
ON CERTAIN MEROCYANINE-CARBOCYANINE  
DERIVATIVES OF IMIDAZOLIN-4-ONE. 1961, 13p.  
Order from CTT \$26.00 CTT-61K120

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Khimicheskii Institut]. Trudy (USSR) 1960, no. 37,  
p. 5-16.

DESCRIPTORS: Dyes, Pigments, \*Cyanines, Imides,  
Azoles.

(Materials--Photographic, TT, v. 8, no. 1)

62-12981

- I. Liorber, B. G.
- II. Shchelkina, E. P.
- III. CTT-61K120
- IV. Columbia Technical  
Translations, White  
Plains, N. Y.

Office of Technical Services