

Use of Phenylarsonic Acid to Separate Neptunium  
and Plutonium, by I. E. Starik, A. P. Ratner,  
M. A. Pasvik, et al, 3 pp.

RUSSIAN, per, Radiokhim, Vol I, 1959, pp 545-547.

ARC NP Tr-741

Sci - Chem  
Feb 62

182,544

Properties of Plutonyl in Nitric Acid I.  
Hydrolysis of Plutonyl Nitrate, by M. E.  
Krevinskaya, V. D. Nikol'skiy, B. G. Pozharskiy,  
E. E. Zastenker, 5 pp.

RUSSIAN, per, Radiokhim, Vol I, No 5, 1959,  
pp 548-553. ~~97~~ 9079524

Infosearch Ltd. London  
as RK-59/5.9

Sci - Chem

Aug 61

164, 302

Properties of Plutonyl in Nitric Acid. Part II.  
Plutonyl Complexes in Nitric Acid Solution, by  
M. E. Krevinskaya, et al.

RUSSIAN, part, Radiokhimiya, No 5, 1959, pp 554-561.

Sci - Chem  
Apr 60

~~AEC~~

9  
10  
AEC

Preparation and Properties of Plutonyl Nitrate,  
by M. E. Krevinskaya, V. D. Nikol'skiy, B. G.  
Pozharskiy, E. E. Zastenker, 4 pp.

RUSSIAN, per, Radiokhim, Vol I, No 5, 1959,  
pp 562-566. 9079528

Infosearch Ltd. London  
as RK-59/5.11

Sci - Chem

Aug 61

164,306

Investigation of Solid Phase in a System of  $UO_2$   
( $NO_3$ ) $_2$ -ROH- $H_2O_2$  -  $H_2$ (, by A. M. Gurevich,  
L. P. Polozhenskaya.

RUSSIAN, per, Radiokhimiya, No 5, 1959, pp 567-572.

NLL RTS 2333 (Loan)

Sci  
Feb 64

Investigation of the Solid Phase in  
UO<sub>4</sub>·4H<sub>2</sub>O -ROH-H<sub>2</sub>O<sub>2</sub>-H<sub>2</sub>O System, by A. M.  
Gurevich, L. P. Polozhenskaya.

RUSSIAN, per, Radiokhimiya, No 5, 1959,  
pp 573-580.

NLL RTS 2334  
(loan copy)

Jul 64

Starik, I. E., Sobotovich, E. V. and others.  
DETERMINING LEAD CONTENT AND ITS ISOTOPE  
COMPOSITION IN IRON METEORITES. [1961] [10]p.  
6 refs.  
Order from OTS or SLA \$1. 10

62-10478

Trans. of Radiokhimiya (USSR) 1959, v. 1, no. 5,  
p. 596-602.

DESCRIPTORS: \*Meteorites, \*Iron, \*Lead, Chemical  
analysis, Determination, \*Isotope separation, Radio-  
chemistry

The isotope composition of lead in iron meteorites can  
differ. (Author)

(Chemistry--Analytical, TT, v. 7, no. 9)

62-10478

I. Starik, I. E.  
II. Sobotovich, E. V.

Office of Technical Services

The States of Zirconium in Solutions of  
Hydrochloric Acid, Ammonium Carbonate and Complexone  
III, by I. P. Alimarin, T. A. Belyavskaya,  
Mu Ping-Weng, 4 pp.

RUSSIAN, per, Radiokhim, Vol I, No 6, 1959,  
pp 645-649. 9079526

Infosearch Ltd. London  
as RK-59/6.5

Sci - Chem

164,305

Aug 61



Chemistry of the Uranates of Some Group II Elements,  
by E. A. Ippolitova, Yu. P. Simanov, L. M. Kovba,  
G. P. Polunina, I. A. Bereznikova, 7 pp.

RUSSIAN, per, Radiokhimiya, Vol I, 1959,  
pp 660-664.

AEC DEG-Inf-Sci-145

441 M 4347

171, 219

Sci - Chem  
Oct 61

List 60

OTR 33 125 145

Sparingly Soluble Uranium Salts of the Lower  
Phosphorus Oxyacids, by V. G. Knyagina, et al.

RUSSIAN, per, Radiokhimiya, No 6, 1959,  
pp 665-667.

Sci - Chem

May 60

~~SECRET~~  
Sparingly Soluble Uranium Salts of the Lower  
Phosphorus Oxyacids, by V. G. Knyagina, et al.  
ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED  
DATE 05-08-80 BY SP-8/BJP/STP

The Propagation of Radioactive  $^7\text{Be}$  in a Nuclear  
Reactor according to a Secondary Nuclear Reaction,  
by E. P. Kudinka, A. I. Sevast'yanov, 6 pp.  
USSR, part, Radiokhimiya, Vol 1, 1959, pp 691-696.

62-13811  
62-13811-1-326

62-611  
Jun 65

281,079

Secondary Reactions of Br<sup>82</sup> and Br<sup>80m</sup> Recoil  
Atoms in Bromomethanes, by A. N. Neameyanov,  
E. A. Borisov, E. A. S. Pilatov, V. I.  
Kondratenko, Tsieh-hsiang Chang, K. Panek,  
B. M. Shukla, 17 pp.

RUSSIAN, PER, Radiokhimiya, Vol I, No 6, 1959,  
pp 712-716.

AEC NP Tr-554

Sci - Chem  
May 61

150,365

RADIOKHIMIYA  
(Soviet Radiochemistry - bimonthly)  
Translation of 1960, Vol. 2 up to  
and including 1961, Vol. 3  
Order from: National Technical Information  
Service  
5285 Port Royal Road  
Springfield, Virginia 22151  
\$ 3.00 two numbers;  
single issues not available

*Russ*

Scintillation Technology of Counting Natural  
Radiocarbon and Its Application in Determining  
Absolute Age, by I. E. Starik, V. P. Shamov,  
Kh. A. Arslanov, A. P. Zharlov, G. M. Murashov,  
18 pp.

RUSSIAN, per, Radiokhimiya, Vol III, 1961,  
pp 101-113.

AEC Tr-4623

165,401

Sci  
Aug 61

Extraction of Ruthenium and Some Other Fission  
Products by Tri-n-Octylamine From Nitric Acid  
Solutions, by V. B. Shevchenko, V. S. Shmidt,  
14 pp. 9091181

RUSSIAN, per, Radiokhim, Vol III, 1961, pp 121-128.

AEC Tr-4840

Sci - Chem  
Feb 62

182,526

Absorption of Radionuclides From Solutions, M. I. E.  
Starik, et al.

RUSSIAN, per, Radiokhimiya, Vol III, 1, 2, 1961.

U.K. Atomic Energy Authority  
Risley, PRS Inf Ser-37(1)

Sci - Chem  
Jul 62

202, 101



Research on the State of Pu(IV) in Dilute Solutions  
of Nitric Acid, by B. I. Grebenshchikova, Yu. P.  
Davydov, 15 pp.

RUSSIAN, per, Radiokhimiya, Vol III, 1961, pp 155-161.  
9093720

AEC Tr-4830

Sci - Chem  
Dec 61

177.423

Adsorption of Pu-(IV) On the Surface of Glass, by  
V. I. Grebenshikova, Yu. P. Davydov, 12 pp.

RUSSIAN, per, Radiokhim, Vol III, 1961, pp 165-172.

AEC Tr-4841

CEA R-1559

(Report Translation)

Sci - Chem  
Feb 62

182, 527

REACTION OF PLUTONIUM DIOXIDE WITH  
AMMONIUM HYDROGEN FLUORIDE IN THE ABSENCE  
OF WATER, BY YA. MALY, I. PEKA, M. TBLASH,  
11 PP.

RUSSIAN, PER, RADIOKHIM, VOL III, NO 2,  
1961, PP 195-198. 9082380

AEC TR-4787

CEA R-1524

*Reverse Trans.*

SCI - CHEM

NOV 61

173,196



CEA-UT-R-1427

Uncl.

SORPTION DES PRODUITS DE FISSION A LONGUE  
PERIODE PAR LES SOLS ET MINERAUX ARGILEUX. I.  
(Sorption of Long-Lived Fission Products by  
Soils and Clayey Minerals. I). Yu. A. Kokotov,  
R. F. Popova, and A. P. Urbanyuk (Urbaniuk).  
Translated into French from Radiokhimiya,  
5: 199-216 (1961). 25p.

Fission Products; Radiobiology; Translations  
MC-43

C-48 NP NSA

N-6

Dep. (mc); \$2.00 (fs), \$1.00 (mf)  
JCL or OTS

Grebenshchikova, V. I. and Davidov, Yu. P.  
ADSORPTION DE Pu(IV) SUR LA SURFACE DU  
VERRE [Adsorption of Pu(IV) on a Glass Surface] tr. by  
Garber. 24 Mar 62 [22]p. 14 refs. CEA Trans. no.  
R 1529 (text in French).  
Order from OTS or SLA \$2.00

62-33760

Trans. in French of Radiokhimiya (USSR) 1961, v. 3,  
no. 2, p. 165-172.

A preliminary unedited trans is available in English  
from OTS or SLA \$1.60 as AEC-T-4841 [1961] 11p.

DESCRIPTORS: \*Radiochemistry, \*Plutonium, Absorp-  
tion, Glass, Colloids, Hydrogen ion concentration,  
Ion exchange.

For abstract see Technical Translations 7: 624, 1962.

(Nuclear Physics and Nuclear Reactions, TT, v. no. 9)

62-33760

I. Grebenshchikova, V. I.  
II. Davidov, Yu. P.  
III. CEA-tr-R1529  
IV. Commissariat à l'Énergie  
Atomique (France)

Office of Technical Services

Nefedov, V. D., Bykhovchev, V. L., and others.  
MODIFICATIONS CHIMIQUES SURVENANT AU  
COURS DE LA DESINTEGRATION- $\beta$  DE RA D, EN-  
TRANT DANS LA COMPOSITION DE DERIVÉS DU  
PLOMB, DEFICITAIRES EN RADICAUX (Chemical  
Changes in  $\beta$ -Decay of Ra D in the Radical Deficient  
Lead Derivatives). 12p. (foreign text included) 5 refs  
FR-3151 (text in French).  
Order from OTS or ETC \$1.85 62-26164

Trans. in French of Radiokhimiya (USSR) 1961, v. 3,  
no. 2, p. 225-236.

DESCRIPTORS: \*Metalorganic compounds, \*Lead com-  
pounds, \*Radium, \*Beta decay, Chemical analysis,  
Chemical reactions.

(Nuclear Physics--Radioactivity, TT, v. 9, no. 8)

62-26164

- I. Nefedov, V. D.
- II. Bykhovchev, V. L.
- III. FR-3151
- IV. Centre National de la  
Recherche Scientifique  
(France)

Office of Technical Services

Nefedov, V. D. and Skorobogatov, G. A.  
SUR LES COMPOSÉS MARQUÉS MULTIPLES (O Mnogokратно Mechenykh Soedineniyakh) tr. by Mme. Giuliani. 10 Nov 61 [22]p. (Russian text included) 6 refs.  
CEA Trans. no. R 1430 (text in French).  
Order from OTS or SLA \$2.60 62-19028

Trans. in French of Radiokhimiya (USSR) 1961, v. 3, no. 2, p. 229-236.

DESCRIPTORS: \*Labeled substances, Radioactive isotopes, Particles, \*Radioactive decay.

(Nuclear Physics--Radioactivity, TT, v. 8, no. 3)

62-19028

- I. Nefedov, V. D.
- II. Skorobogatov, G. A.
- III. CEA-tr-R1430
- IV. Commissariat à l'Énergie Atomique (France)

Office of Technical Services



A Rapid Method of Determining Thorium, Radium, and  
Lead in Monazites, by K. S. Ivanova.

RUSSIAN, per, Radiolinnia, Vol. III, No 3, 1961,  
pp 342-355. 7-17-67

ABRE, Harwell Tr-1542

11/17/67

Sci - Elec Chem

JUL 62

202,222

Vdovenko, V. M., Lipovskii, A. A., and  
[Kuzina, M. G.].  
ABSORPTION DU NITRATE D'URANYLE PAR LES  
RESINES ECHANGEUSES D'ANIONS A PARTIR DE  
SOLVANTS ORGANIQUES [Absorption of Uranyl  
Nitrate from Organic Solvents with the Help of Anion  
Exchange Resins] tr. by Cen-Far. 3 Mar 62 [21]p.  
11 refs. CEA Trans. no. R 1568 (text in French).  
Order from OTS or SLA \$2.60 62-33742

Trans. in French of [Radiokhimiya] (USSR) 1961, v. 3,  
no. 3, p. 365-371.

DESCRIPTORS: \*Radiochemistry, \*Uranyl radicals,  
Nitrates, Absorption, \*Organic solvents, \*Ion exchange  
resins.

(Nuclear Physics and Nuclear Chemistry, TT, v. 9,  
no. 9)

62-33742

- I. Vdovenko, V. M.
- II. Lipovskii, A. A.
- III. CEA-tr-R1568
- IV. Commissariat a l'Energie  
Atomique (France)

Office of Technical Services

of the Long-Lived Fission Products by Soils  
and Minerals, by Yu. A. Lokotov, et al.  
RUSSIAN, per, Radiokhimiya, Vol. III, 1961, pp 194-207.

U.K. Atomic Energy Authority  
Risley, TRG Inf Ser 146(W)

Sci - Chem  
Jul 62

202,350

CEA-t1-R-1427 Uncl.

SORPTION DES PRODUITS DE FISSION A LONGUE  
PERIODE PAR LES SOLS ET MINERAUX ARGILEUX. I.  
(Sorption of Long-Lived Fission Products by  
Soils and Clayey Minerals. I). Yu. A. Kokotov,  
R. F. Popova, and A. P. Urbanyuk (Urbaniuk).  
Translated into French from Radiokhimiya,  
3: 199-200 (1961). 25p.

Fission Products; Radiobiology; Translations  
MC-48

G-48 NP NSA Dep.(mc); \$2.60(fs); \$0.35(mf)  
N-6 JCL or OTS

Grebenshchikova, V. I. and Davidov, Yu. P.  
ADSORPTION DE Pu(IV) SUR LA SURFACE DU  
VERRE [Adsorption of Pu(IV) on a Glass Surface] tr. by  
Garber, 24 Mar 62 [22]p. 14 refs. CEA Trans. no.  
R 1529 (text in French).

Order from OTS or SLA \$2.00

62-33760

Trans. in French of Radiokhimiya (USSR) 1961, v. 3,  
no. 2, p. 165-172.

A preliminary uncited trans is available in English  
from OTS or SLA \$1.60 as AEC-tr-4841 [1961] 11p.

DESCRIPTORS: \*Radiochemistry, \*Plutonium, Absorp-  
tion, Glass, Colloids, Hydrogen ion concentration,  
Ion exchange.

For abstract see Technical Translations 7: 624, 1962.

(Nuclear Physics and Nuclear Reactions, TT, v. no. 9)

62-33760

I. Grebenshchikova, V. I.  
II. Davidov, Yu. P.  
III. CEA-tr-R1529  
IV. Commissariat à l'Énergie  
Atomique (France)

Office of Technical Services

Nefedov, V. D., Bykhovchev, V. L. and others.  
MODIFICATIONS CHIMIQUES SURVENANT AU  
COURS DE LA DESINTEGRATION- $\beta$  DE RA D, EN-  
TRANT DANS LA COMPOSITION DE DÉRIVÉS DU  
PLOMB, DÉFICITAIRES EN RADICAUX (Chemical  
Changes in  $\beta$ -Decay of Ra D in the Radical Deficient  
Lead Derivatives). 12p. (foreign text included) 5 refs.  
FR-3151 (text in French).  
Order from OTS or BTC \$1.85 62-26164

Trans. in French of Radiokhimiya (USSR) 1961, v. 3,  
no. 2, p. 225-236.

DESCRIPTORS: \*Metalorganic compounds, \*Lead com-  
pounds, \*Radium, \*Beta decay, Chemical analysis,  
Chemical reactions.

(Nuclear Physics--Radioactivity, TT, v. 9, no. 8)

62-26164

- I. Nefedov, V. D.
- II. Bykhovchev, V. L.
- III. FR-3151
- IV. Centre National de la  
Recherche Scientifique  
(France)

Office of Technical Services

Nefedov, V. D. and Skorobogatov, G. A.  
SUR LES COMPOSES MARQUES MULTIPLES (O Mno-  
gokratno Mechernyykh Soedineniyakh) tr. by Mme. Giu-  
liani. 10 Nov 61 [22]p. (Russian text included) 6 refs.  
CEA Trans. no. R 1430 (text in French).  
Order from OTS or SLA \$2.60

62-19028

Trans. in French of Radiokhimiya (USSR) 1961, v. 3,  
no. 2, p. 229-236.

DESCRIPTORS: \*Labeled substances, Radioactive iso-  
topes, Particles, \*Radioactive decay.

(Nuclear Physics--Radioactivity, IT, v. 8, no. 3)

62-19028

- I. Nefedov, V. D.
- II. Skorobogatov, G. A.
- III. CEA-tr-R1430
- IV. Commissariat à l'Énergie  
Atomique (France)

Office of Technical Services

A Rapid Method of Determining Thorium, Radium, and  
Lead in Monazites, by K. S. Ivanova.

RUSSIAN, per, Radiochimica, Vol III, No 3, 2, 1967,  
pp 348-353. Q 7 1967

ANNE, Maxwell, Radiochimica  
1967 1/1 1967

Sci - Env Chem  
Jul 68

200,000



Vdovenko, V. M., Lipovskii, A. A., and  
[Kuzina, M. G.].  
ABSORPTION DU NITRATE D'URANYLE PAR LES  
RESINES ECHANGEUSES D'ANIONS A PARTIR DE  
SOLVANTS ORGANIQUES [Absorption of Uranyl  
Nitrate from Organic Solvents with the Help of Anion  
Exchange Resins] tr. by Cen-Far. 3 Mar 62 [21]p.  
11 refs. CEA Trans. no. R 1568 (text in French).  
Order from OTS or SLA \$2.60 62-33742

Trans. in French of [Radiokhimiya] (USSR) 1961, v. 3,  
no. 3, p. 365-371.

DESCRIPTORS: \*Radiochemistry, \*Uranyl radicals,  
Nitrates, Absorption, \*Organic solvents, \*Ion exchange  
resins.

(Nuclear Physics and Nuclear Chemistry, IT, v. 9,  
no. 9)

62-33742

- I. Vdovenko, V. M.
- II. Lipovskii, A. A.
- III. CEA-tr-R1568
- IV. Commissariat a l'Energie  
Atomique (France)

Office of Technical Services

Concerning the Mechanism of Extraction of  
Tetravalent Plutonium by a Primary Alkyl Amine  
From Sulfuric Acid Solution, by V. M. Vdovenko,  
A. A. Lipovskiy, S. A. Nikitina, 6 pp.

RUSSIAN, per, Radiokhim, Vol III, 1961, pp 396-402.  
9002272

CEA R-1524  
AEC Tr-4982

Sci - Chem  
Apr 62

189,961

Extraction of Americium by Tributylphosphate, by  
V. I. Zemlyanichin, et al.

RUSSIAN, per, Radiofizika, Vol. III, No 4, 1962,  
pp 411-416.

U.K. Atomic Energy Authority  
Risley, TRG Inf Ser-47 (1)

Sci - Chem  
Jul 62

202,103

Separation by Extraction of  $\text{Sr}^{95}$  (Without a Carrier)  
Using the n-Diethylphosphate -  $\text{CHCl}_3$  System, by  
S. A. Potapova.

RUSSIAN, per, Radiokhimiya, Vol III, No 4, 1961,  
pp 421-427.

#U.K. Atomic Energy Authority  
Risley, TRG Inf Ser 14 (W)  
5

Sci - Chem  
Jul 62

Grebenshchikova, V. I., Bryzgalova, R. V., and Chernitskaya, I. V.

THE COMPOSITION AND SOLUBILITY OF LANTHANUM OXALATE IN DIFFERENT SOLUTIONS. [1962] 9p. 7 refs.

Order from OTS or SLA \$1.10

62-18730

Trans. of Radiokhimiya (USSR) 1961, v. 3, no. 4, p. 486-489.

DESCRIPTORS: \*Lanthanum compounds, \*Oxalates, Synthesis, Solubility, Chemical analysis.

It is determined that normal lanthanum oxalate, having the composition  $\text{La}_2(\text{C}_2\text{O}_4)_3 \cdot 8\text{H}_2\text{O}$ , is deposited from mixed solutions of nitric or oxalic acids (or ammonium oxalate) at  $50^\circ\text{C}$ . The solubility of lanthanum oxalate at  $50^\circ\text{C}$  in different solutions is determined. It is demonstrated that the solubility of (Chemistry--Physical, TT, v. 9, no. 10) (over)

62-18730

- I. Grebenshchikova, V. I.
- II. Bryzgalova, R. V.
- III. Chernitskaya, I. V.

Office of Technical Services

~~SECRET~~

Reactions of Uranyl Nitrate with Amines, by  
V. M. Vdovenko, D. N. Suglov, et al.

RUSSIAN, per, Radiokhimiya, No. 5, 1961, pp 636-637.

\*AEC

Sci - ~~XX~~ Nucl Sci  
Jan 64

RADIOKHIMIYA  
(Soviet Radiochemistry - bimonthly)  
Translation begins with 1962,  
Vol. 4, No. 1  
Lag time: ca. 11 months  
Order from: Plenum Publishing Corporation  
227 West 17th Street  
New York, N.Y. 10011  
1971: \$ 125.00/year  
\$ 30.00 single issues  
\$ 15.00 single article reprints  
add \$ 5.00 on overseas subscription

*Russ  
all*

The State of Protactinium in Aqueous Solutions  
VI Adsorption Properties of Protactinium,  
by I. E. Starik, I. D. Sheydan, L. I.  
Elmanova, 12 pp.

RUSSIAN, per, Radiokhimiya, Vol IV, No 1,  
1962, pp 44-49. ~~0093556~~ 9866946

ABC Tr-5253

Sci - Chem  
Oct 62

212,671



Shvedov, V. P., Ankudinov, E. P. and others.  
DETERMINATION DE FAIBLES ACTIVITES DES  
EAUX RADIO-POLLUEES [Determination of Low Levels  
of the Radioactive Contamination of Water] tr. by  
Carber. 18 Apr 62 [15]p. 20 refs. CEA Trans.  
no. R 1657.

Order from OTS or SLA \$1.60

63-15471

Trans. in French of Radiokhimiya (USSR) 1962, v. 4,  
no. 1, p. 110-116.

DESCRIPTORS: \*Water supplies, Lakes, Artificial  
radioactivity, \*Radiological contamination, Determi-  
nation, Chemical precipitation, \*Evaporators,  
Automatic, \*Electrolytic cells, Computers, \*Gamma-  
ray spectroscopy, \*Radiation measurement systems.

On a examiné brièvement les méthodes de prélèvement  
et de concentration des substances radioactives  
(Nuclear Physics--Instruments, TT, v. 10, no. 7)(over)

63-15471

- I. Title: Entrainment
- I. Shvedov, V. P.
- II. Ankudinov, E. P.
- III. CEA-tr-R1657
- IV. Commissariat a l'Energie  
Atomique (France)

Office of Technical Services

The Structure of Uranyl Nitrate Dihydrate, by  
V. M. Vdovenko, E. V. Stroganov, et al.

RUSSIAN, per, Radiokhimiya, Vol IV, No 1, 1962,  
pp 59-66.

*g*  
AERE/Harwell *Te 982*

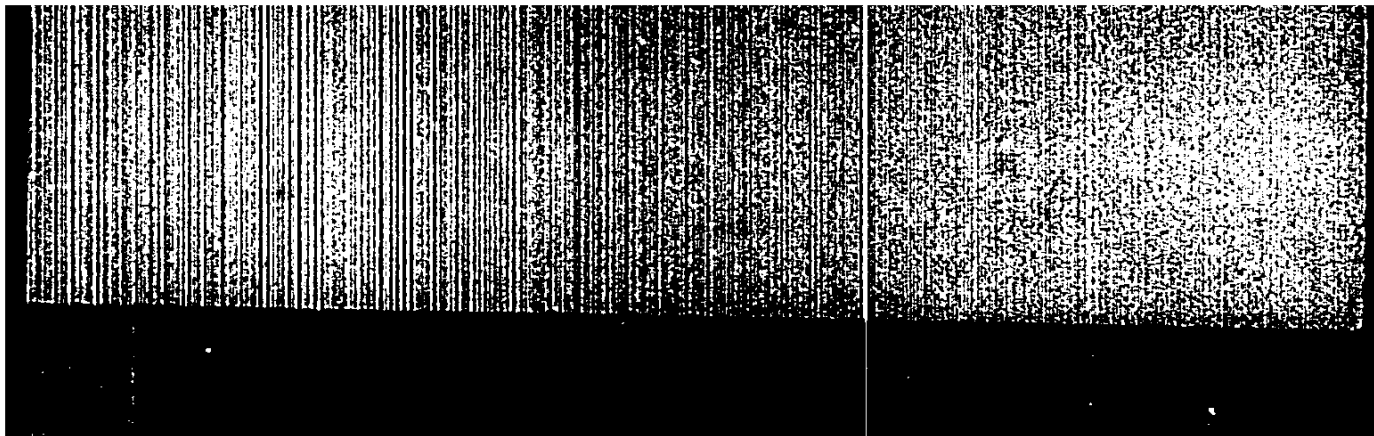
Sci - Nucl Sci  
Oct 63

Determination of Radioactive Cesium by the  
Ferrocyanide Method, by A. V. Gel'man.  
RUSSIAN, per, Radiokhim, No 1, 1962, pp 107-110.

AEC

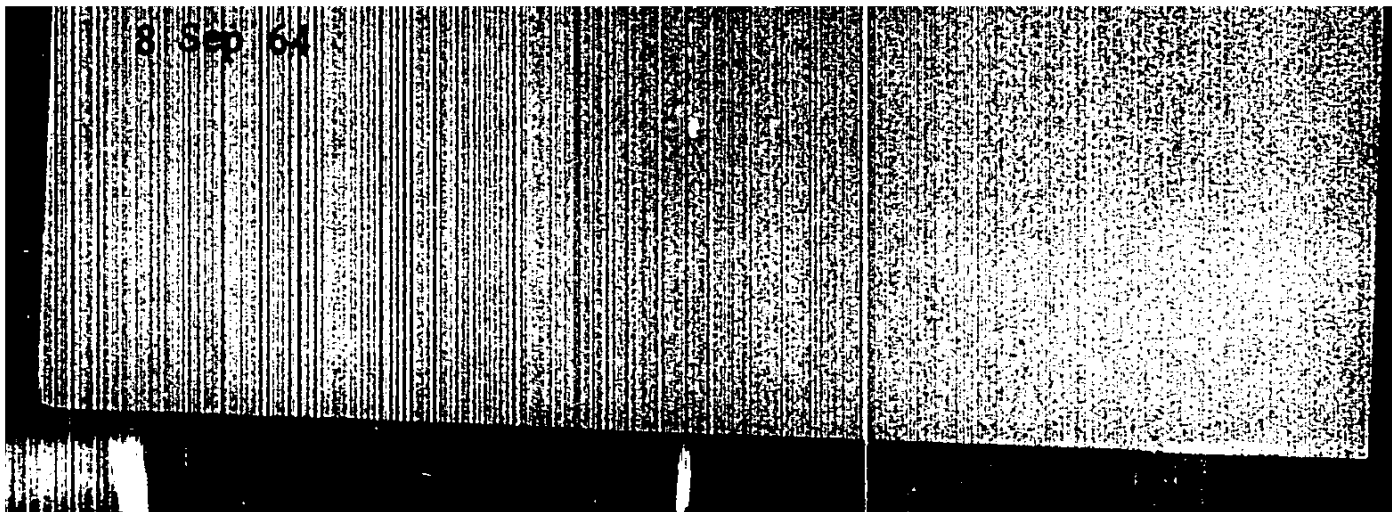
Sci  
Mar 64

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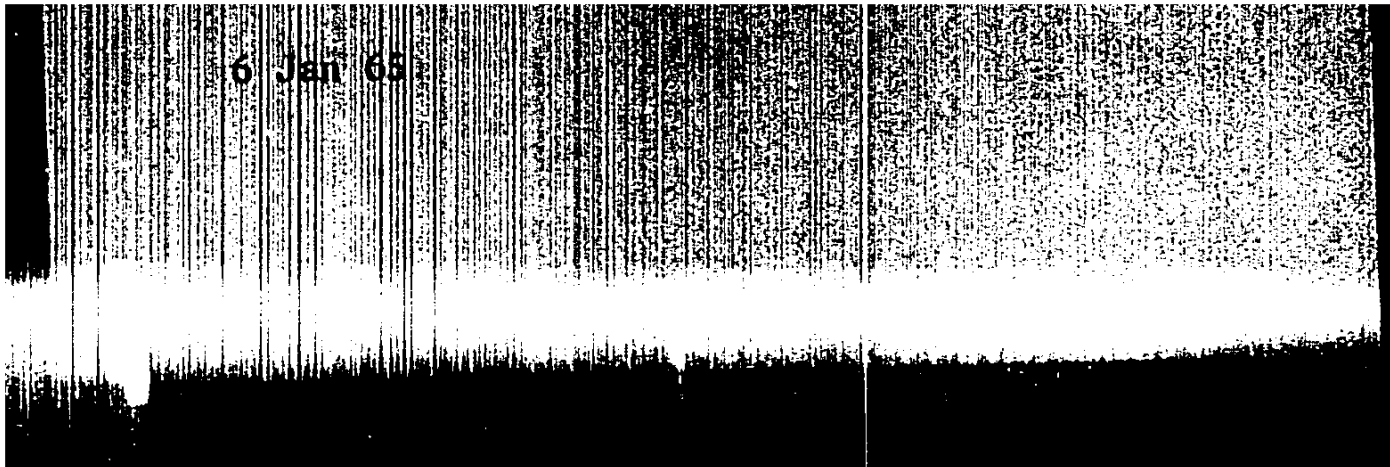
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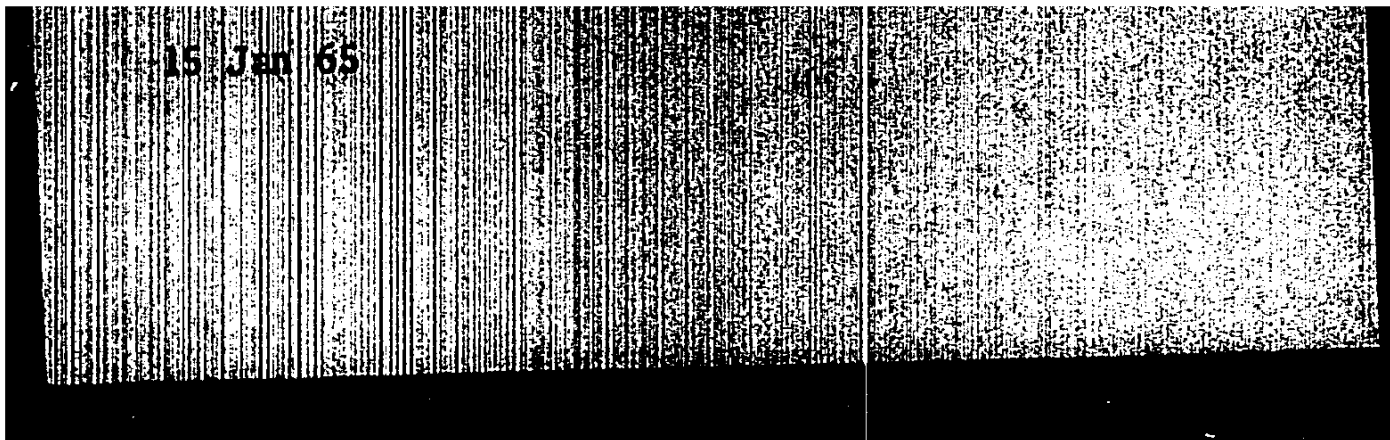
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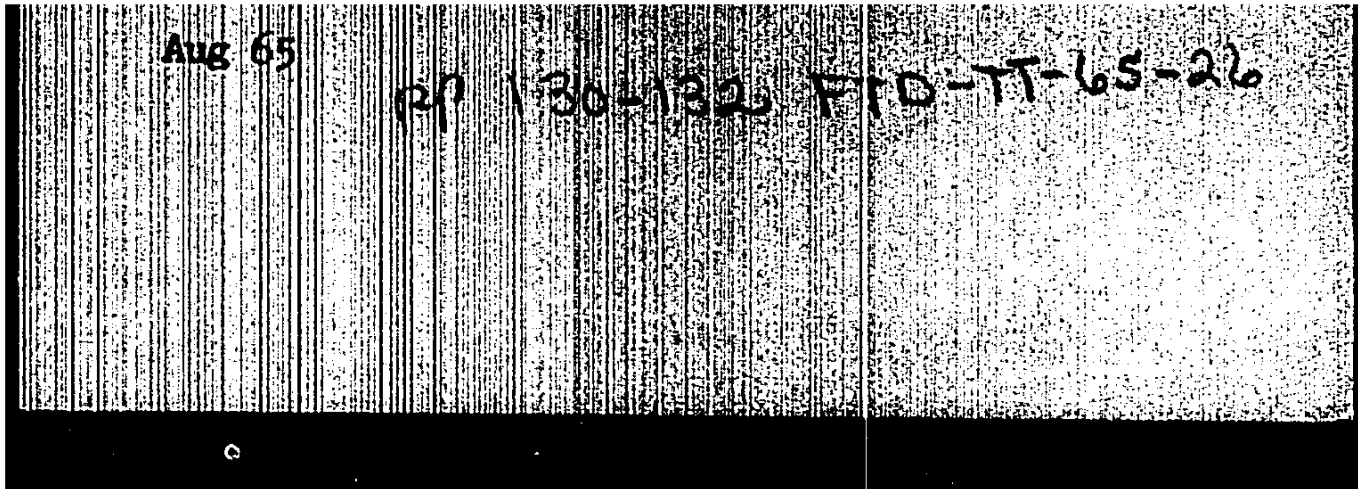
Full Translation by Consulate Bureau

Available at Library Special

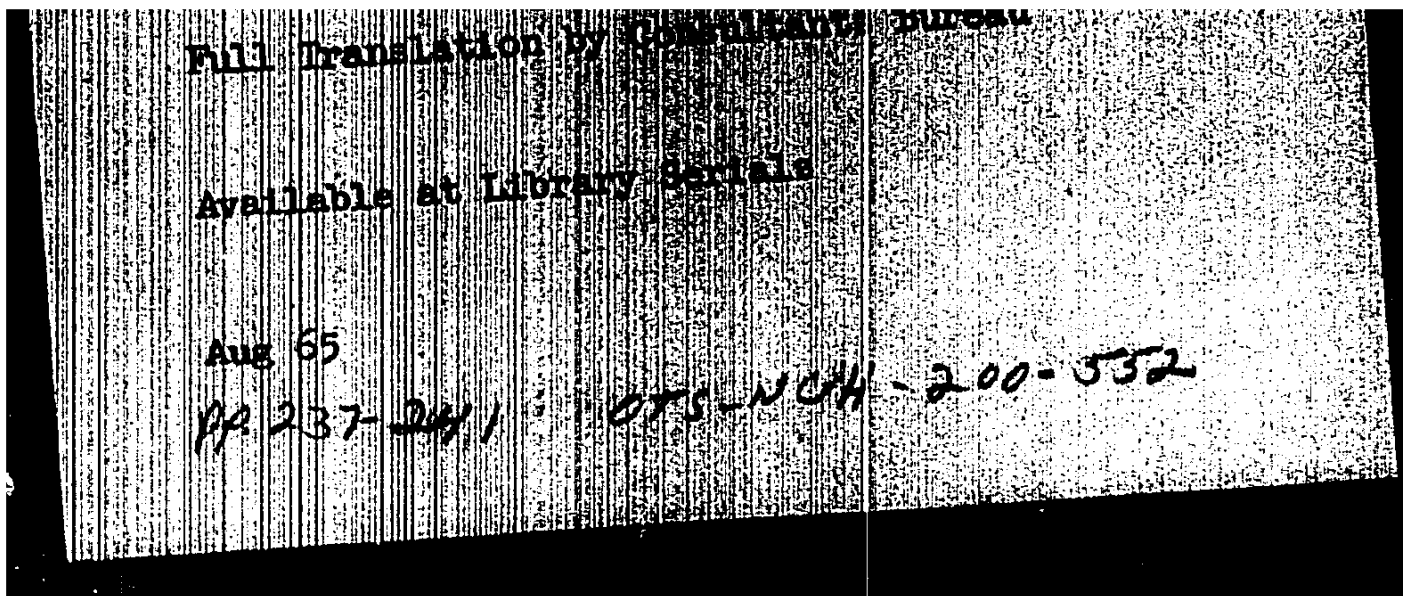
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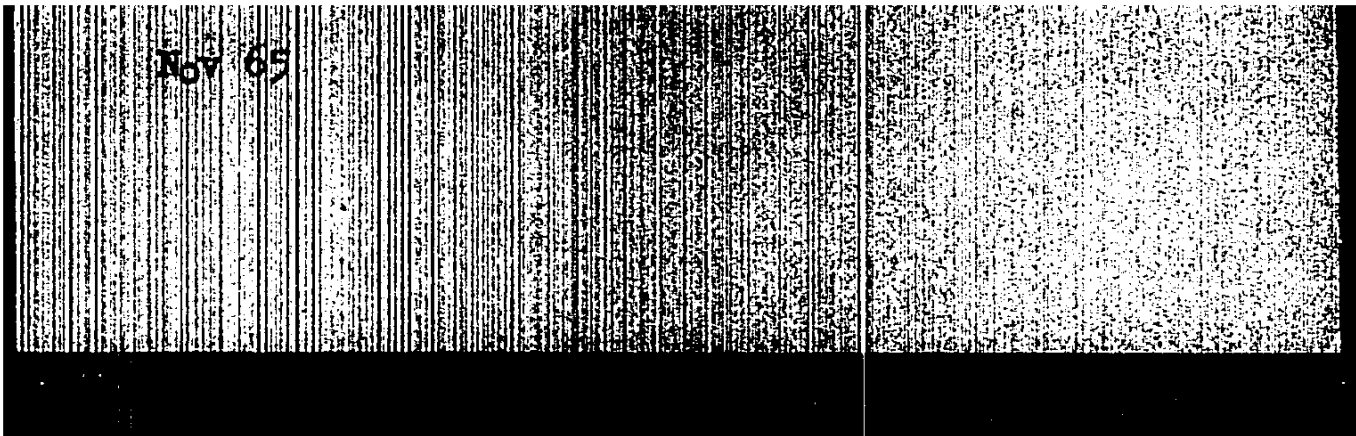
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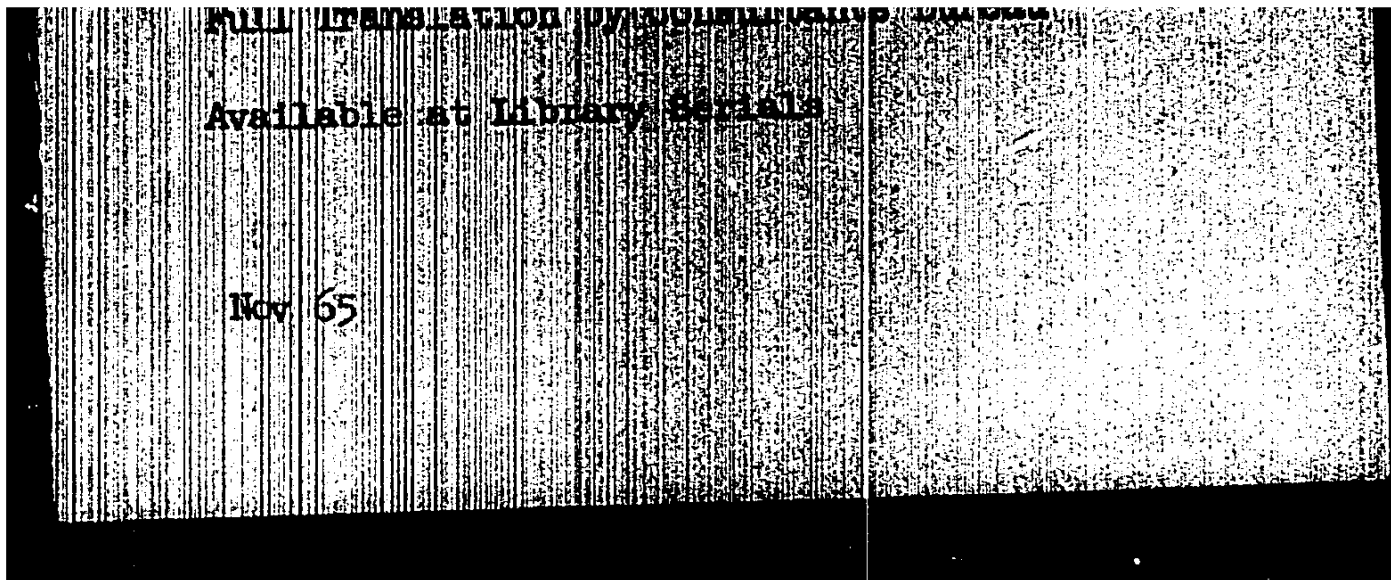
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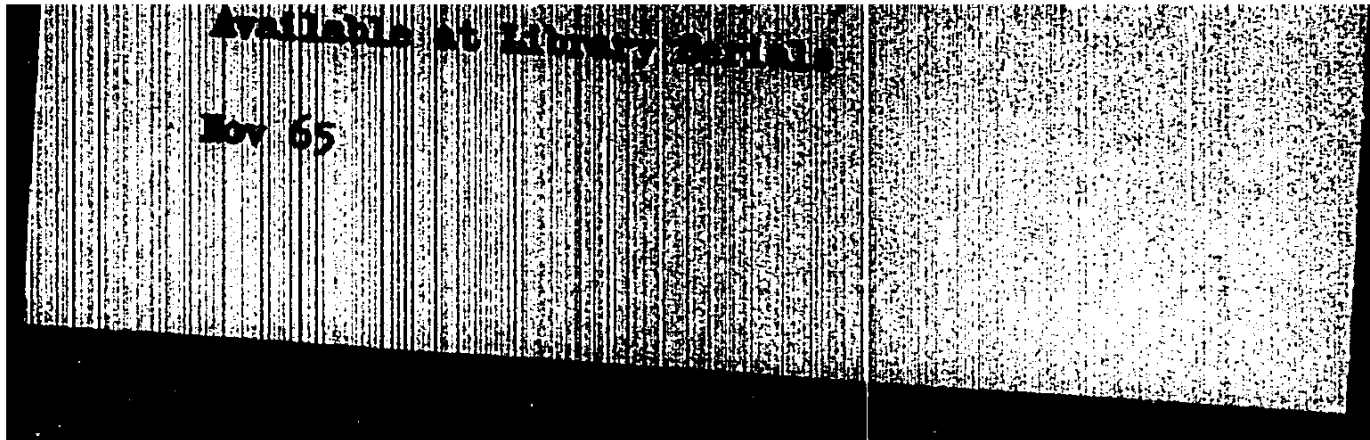
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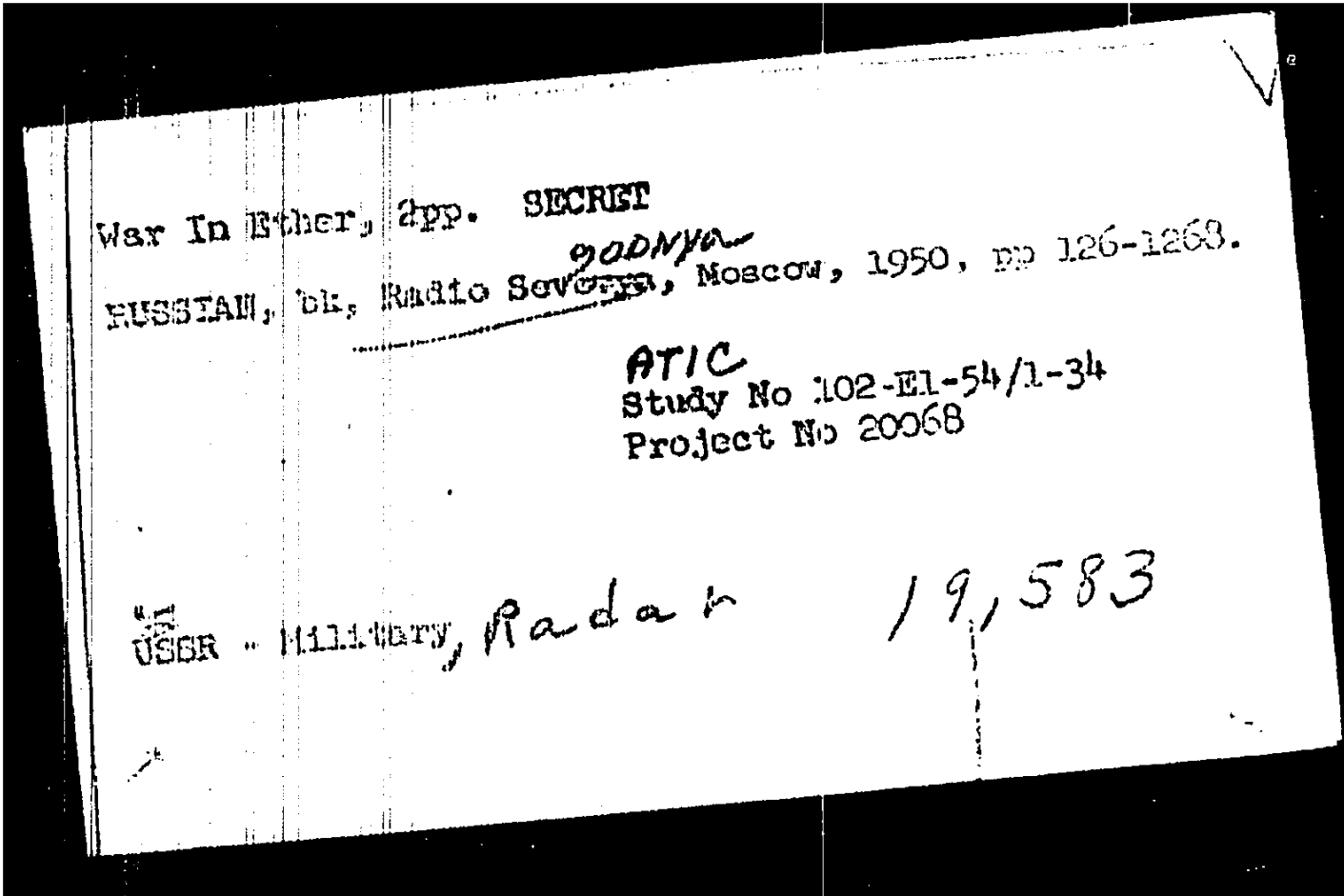
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DESCRIPTORS: Radar equipment, \*Radar scanning,  
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activity, which employs a system of protection  
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are presented, and a study of the physical properties  
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- II. NASA TT F-68
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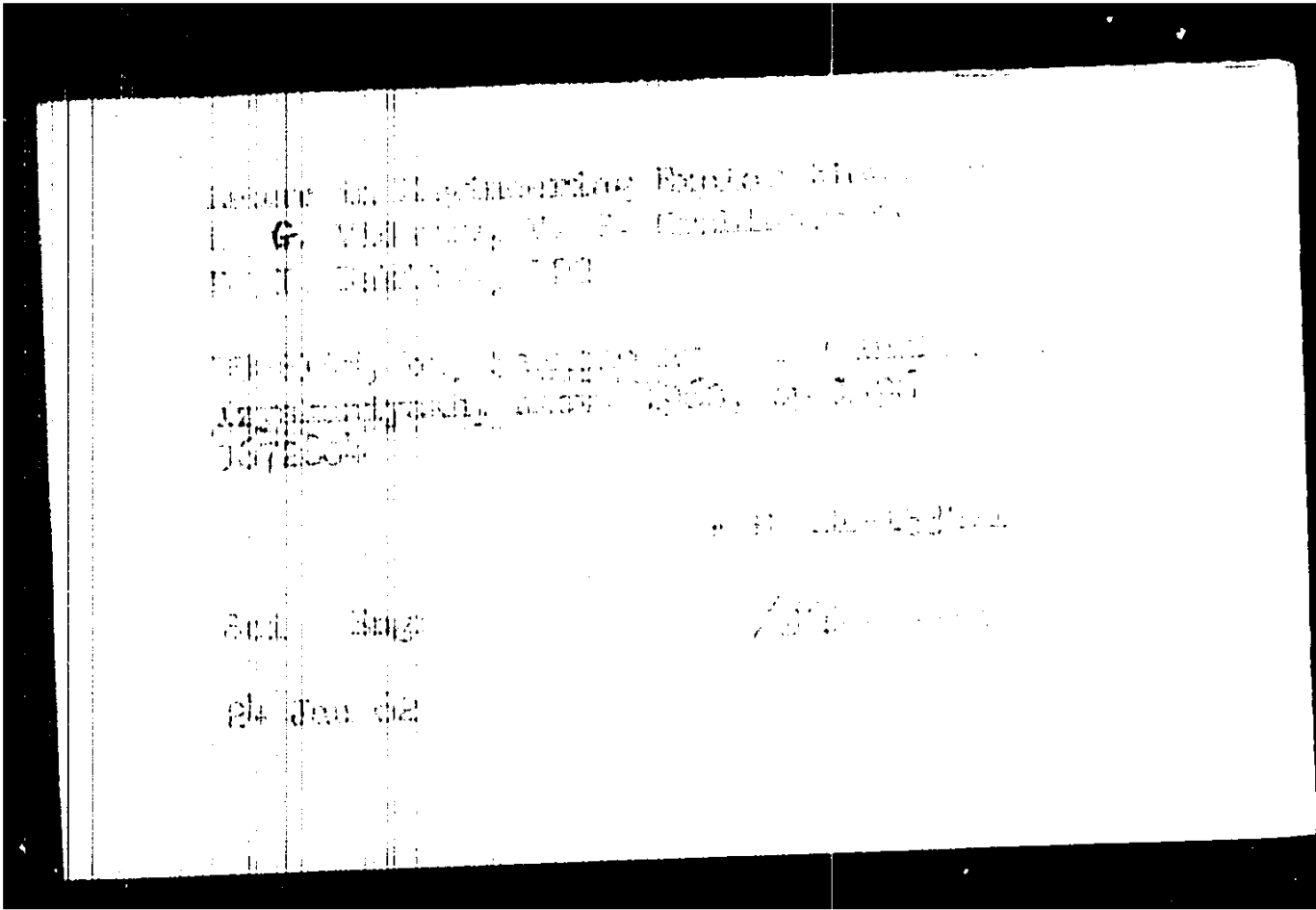
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DESCRIPTORS: \*Radiometers, \*Radioactive isotopes,  
\*Iodine, \*Thyroid gland, Dosimeters, Scintillation  
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The gamma radiation of radio-iodine is registered  
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