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DESCRIPTORS: *Infrared spectroscopy, *Diffraction gratings, Vacuum apparatus, Monochromatic light, Resolution, Design, Optics, Reflection, Water vapor, Carbon compounds, Monoxides, Absorption spectra, *Optical spectrometers.

On the basis of a diffraction grating monochromator, a device was constructed for investigating the infrared spectrum in the region 0.7 to 3 microns with a resolu-
(Physics--Spectroscopy, TT, v. 8, no. 1) (over)

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I. Neporent, B. S.
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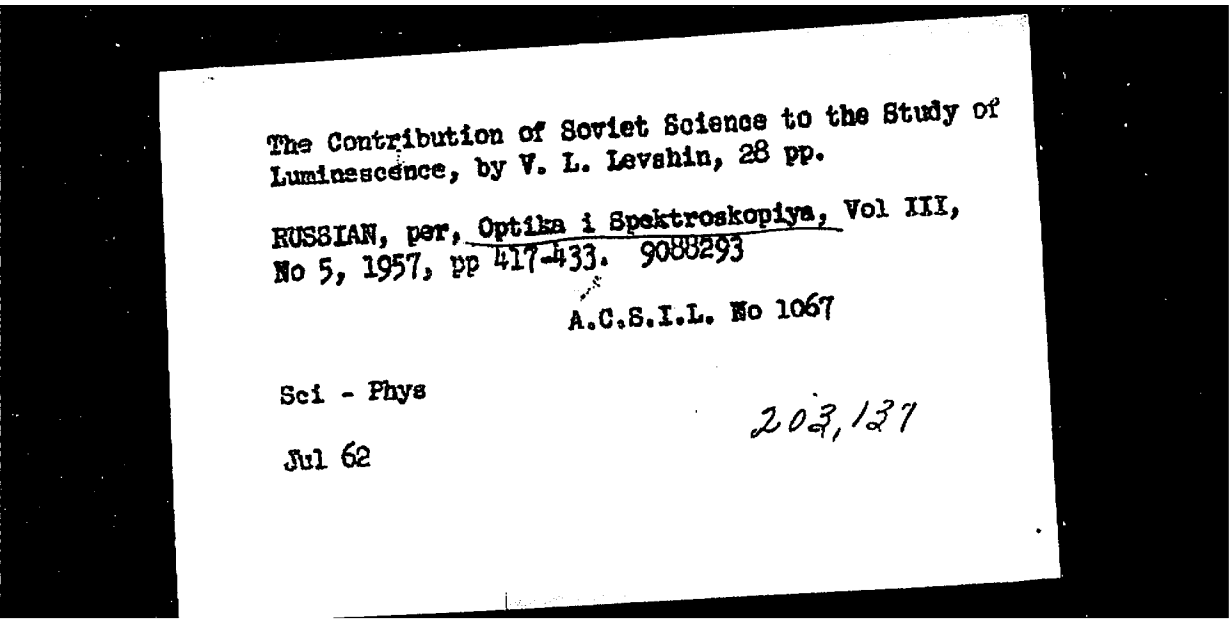

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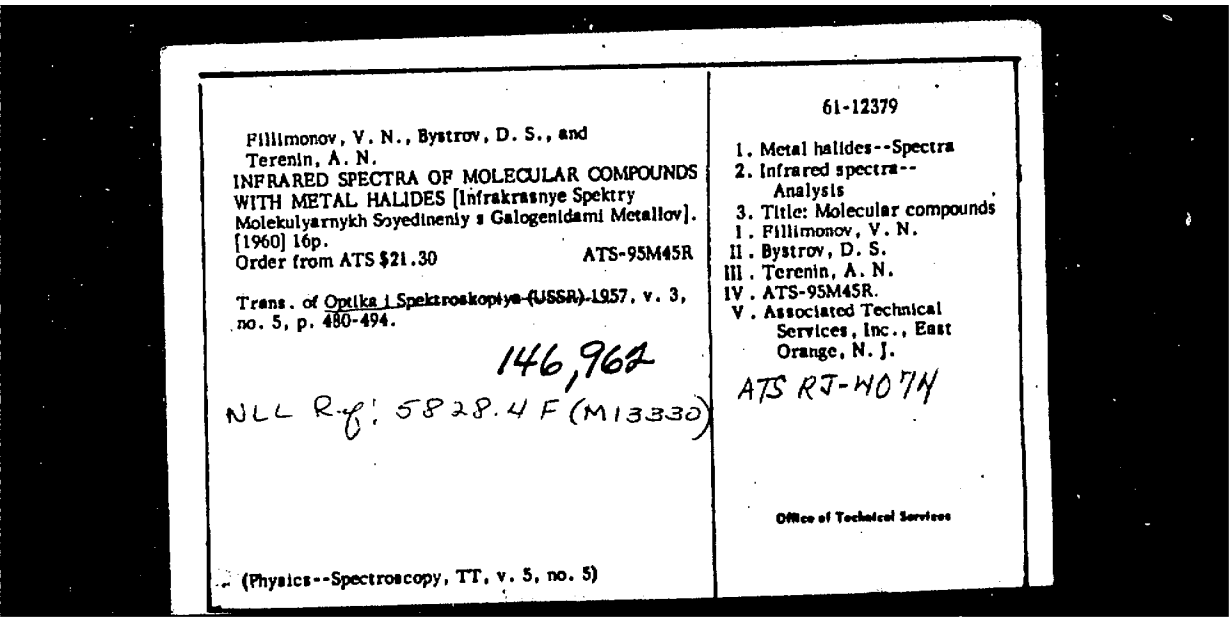

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2. Infrared spectra--Analysis
3. Title: Molecular compounds
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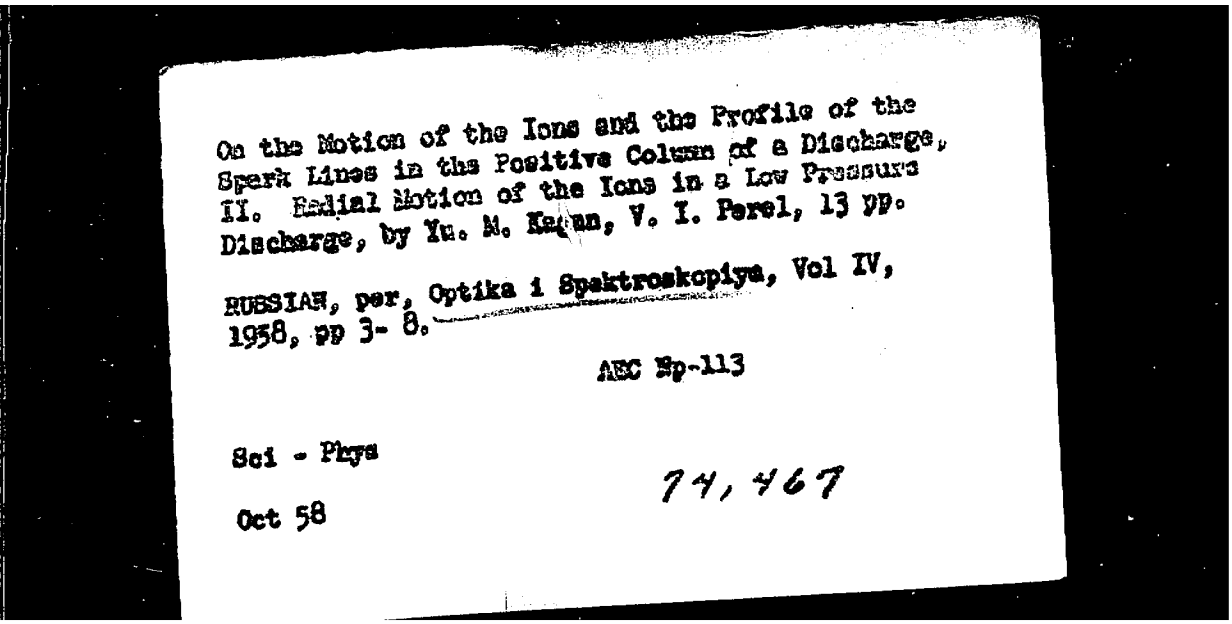

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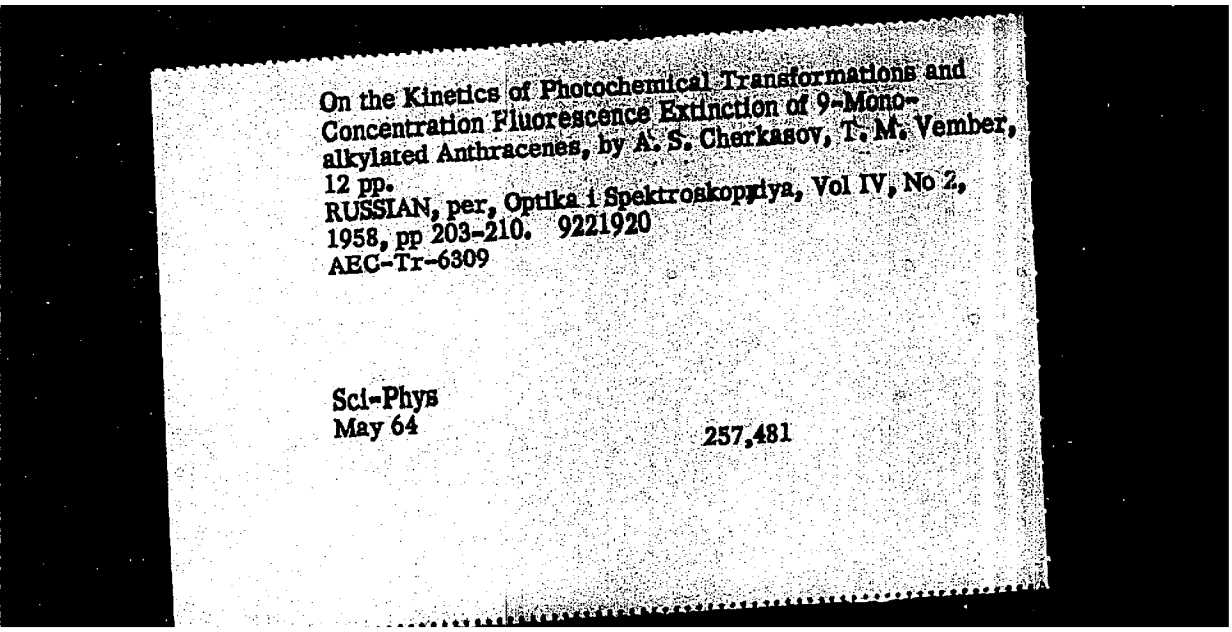

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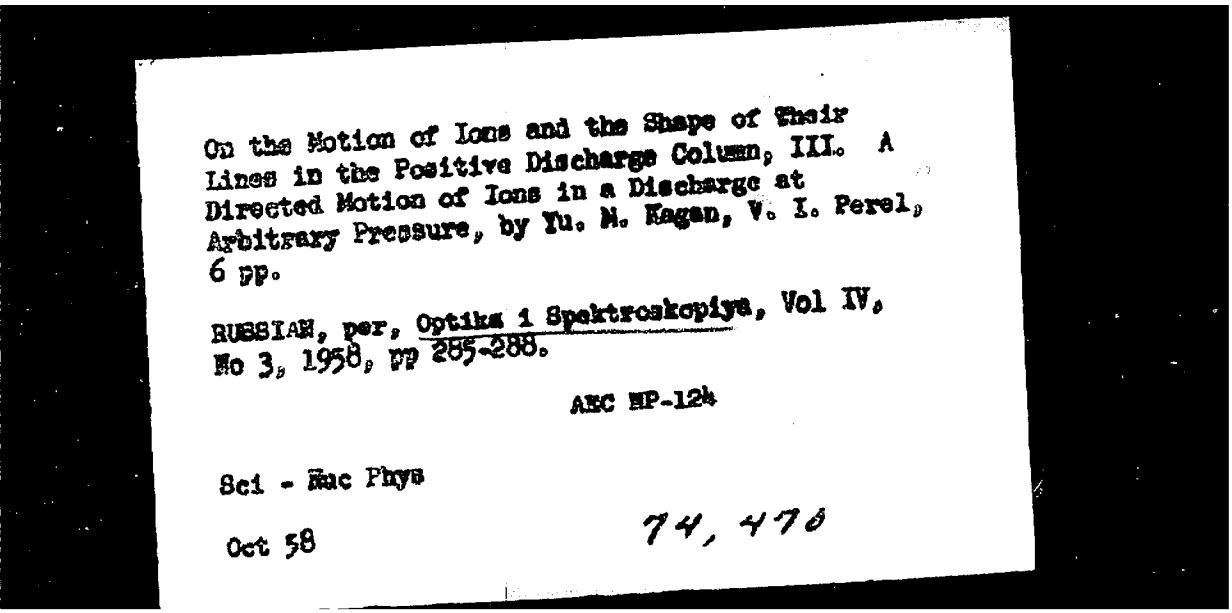

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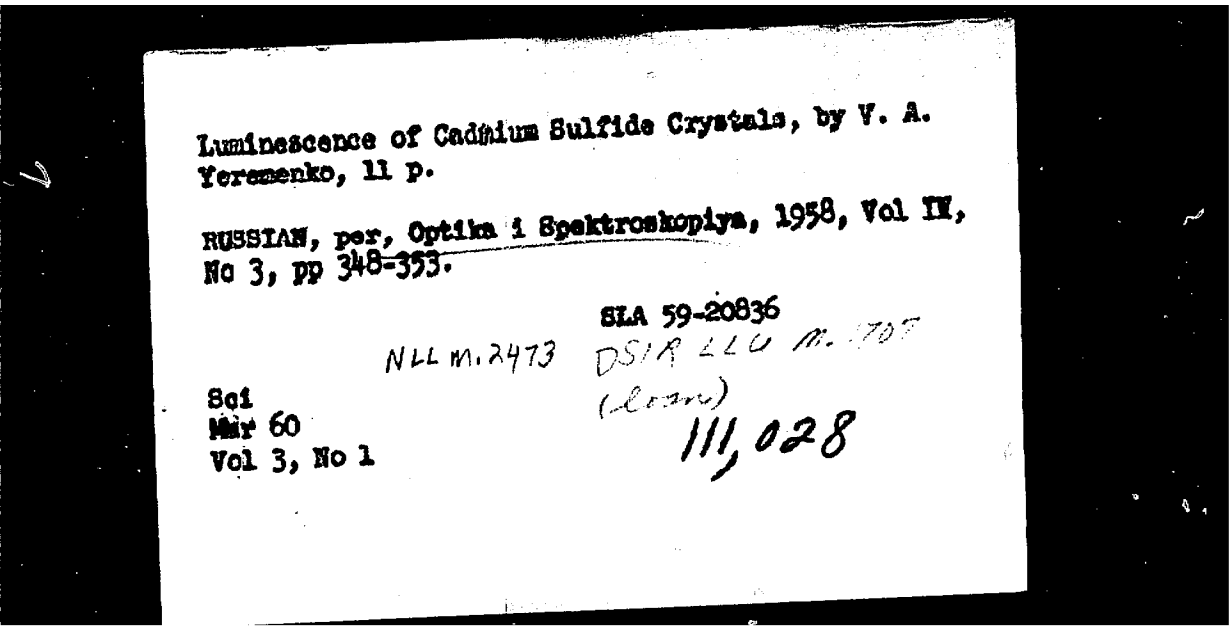

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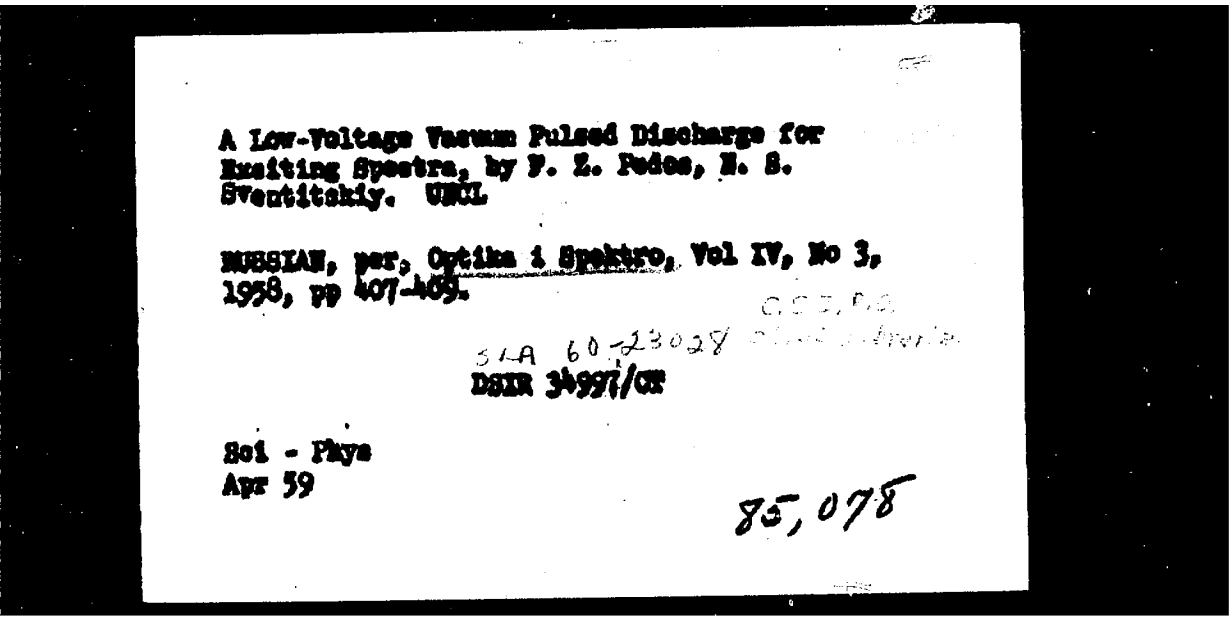

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Dec 62

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Dianov-Klokov, V.I.
SPECTRE D'ABSORPTION DE L'OXYGÈNE LIQUIDE DANS L'INTERVALLE DE TEMPÉRATURE 77-153° K (12600-3300 A°) (Absorption Spectrum of Liquid Oxygen in the 12600-3300 A Region in the Temperature Range 77-153°K). 20p. (foreign text included, but illegible), 23refs. CNRS-XXVIII 48.
Order from OTS, ETC or CNRS $0.80 TT-62-28585

Trans. in French of Optika i Spektroskopiya (USSR) 1958, v.4, no.4, p.448-454.

DESCRIPTORS: *Oxygen, Liquefied gases, *Absorption spectrum, Spectrophotometers, Complex compounds.

(Physics--Spectroscopy, TT, v. 11, no. 9)

TT-62-28585

I. Dianov-Klokov, V.I.
II. CNRS-XXVIII 48
III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

The Dependence of the Absorption of Infrared Radiation by Water Vapor on Concentration and Path Length in the Case of Singel Lines and Groups of Lines in the Band, by K. P. Vasilevskiy, B. S. Neporent, 13 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol IV, No 4, 1958, pp 474-480.

SLA 60-23517

193, 678

Sci
Vol IV, No 7
May 62

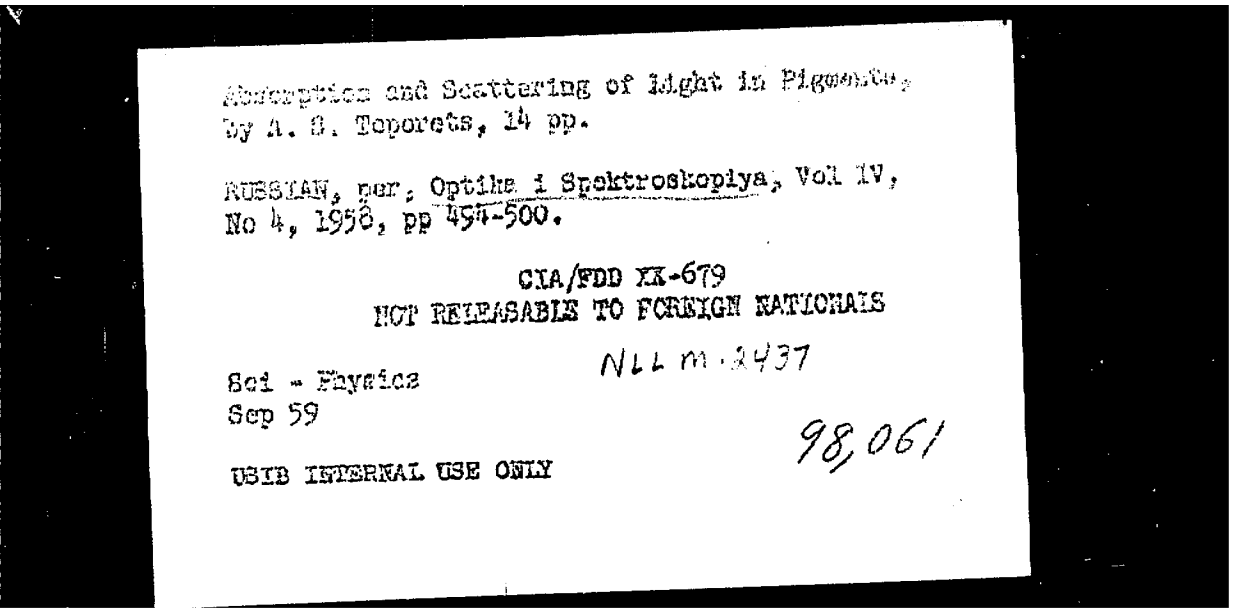
APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Distribution of Light Energy Changed in the Diffraction Pattern by Variable Transmittance Filters, by G. G. Slyusarev, N. I. Kulikovskaya, 13 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol IV, No 4, 1958, pp 486-493.

Sci - Physics
Sep 59

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3



Absorption and Scattering of Light in Pigments, by A. S. Toporets, 14 pp.

RUSSIAN, per; Optika i Spektroskopiya, Vol IV, No 4, 1958, pp 494-500.

CIA/FDD XR-679
NOT RELEASABLE TO FOREIGN NATIONALS

NLL m-2437

Sci - Physics
Sep 59

98,061

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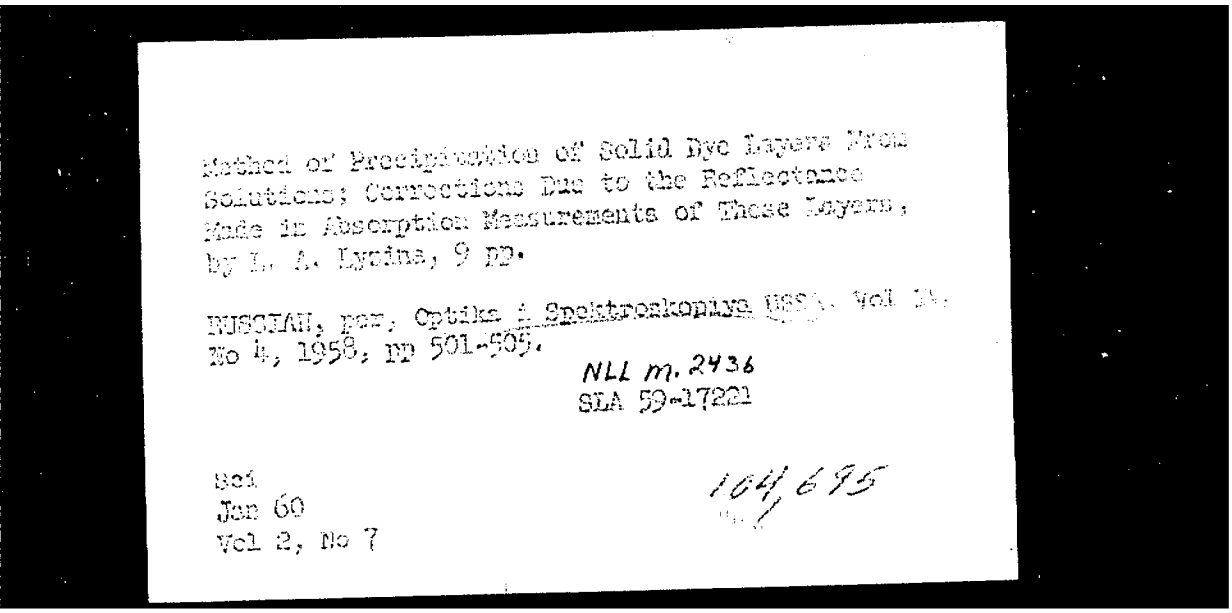
APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3



Method of Precipitation of Solid Dye Layers From Solutions; Corrections Due to the Reflectance Made in Absorption Measurements of These Layers, by L. A. Lysina, 9 pp.

RUSSIAN, per, Optika i Spektroskopiya USSR, Vol 2, No 4, 1958, pp 501-505.

NLL m. 2436
SLA 59-17221

Uol
Jan 60
Vol 2, No 7

104695

Microwave Spectrum and Rotational Constants, of The C_2H_5Cl Molecule, by A. I. Barchukov, T. M. Murina, A. M. Prokhorov, 2 p.

RUSSIAN, per, Opt i Spekt, 1958, Vol IV, No 4, pp 521-523.

SLA 59-20860

Sci
Mar 60
Vol 3, No 1

111,023

Relationship Between the Scanning Speed and the Resolving Power of a Spectral Instrument, by V. A. Nikitin, 5 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol IV, No 4, 1958, pp 523-525.

CIA/FDD KX-678
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Physics
Sep 59

NLL M.2435

98,059

USIB INTERNAL USE ONLY

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Investigation of Powerful Pulse Discharge With Limited Channel Diameter, by N. N. Ogurtsov, I. V. Podmoshenskiy, 12 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol IV, 1958, pp 539-541.

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Radiospectroscopic Studies Of CH_3GeCl_3 by N.A. Irisova.

RUSSIAN, per, Optika I Spektroskopiya, Vol IV, No 4, 1958, pp 543-546.

CSIRO Tr 4171

Oct. 62

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

(2436-D)

XM X
On The Excitonic States of a Molecular Crystal Containing Different Molecules, by A. F. Lubchenko, E. I. Rashba, 12 pp.

RUSSIAN, per, Optika i Spektroskopiya Vol IV, No 5, Leningrad, 1958, pp 580-585.

US JPRS 523-D

Sci - Physics
Feb 59

81,792

(2436-D)

On the Capture of "Free Excitons by Impurities in Molecular Crystals, by V. M. Agranovich, 15 pp.

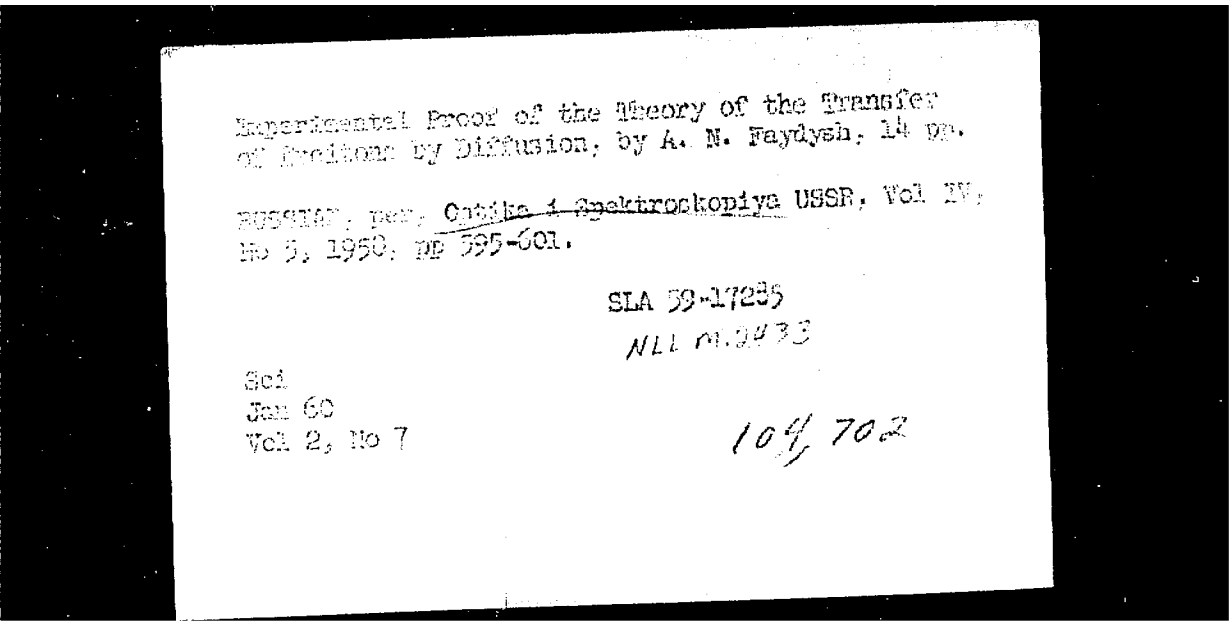
RUSSIAN, per, Optika i Spektroskopiya, Vol IV, No 5, Leningrad, 1958, pp 586-594.

UB JPRS 524-D

Sci - Physics
Feb 59

81,791

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3



Experimental Proof of the Theory of the Transfer of Exciton by Diffusion, by A. N. Faydysh, 14 pp.

RUSSIAN, per: Optika i Spektroskopiya USSR, Vol IV, No 5, 1958, pp 595-601.

SLA 59-17235

NLL 61-2433

Sci
Jan 60
Vol 2, No 7

104 702

Zeeman Effect of Anistropic Centers in a Cubic Crystal Lattice, by V. A. Arkhangel'skaya, P. P. Feofilov, 20 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol IV, No 5, 1958, pp 602-619.

Sci

Vol 4, No 1
Mar 62

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Shpol'skii, E. V. and Girdzhiyauskaite, E. A.
LUMINESCENCE AND ABSORPTION OF PYRENE AND 3, 4-BENZOPYRENE IN FROZEN SOLUTIONS OF NORMAL PARAFFINS. [1961] 24p. 11 refs.
Order from SLA $2.60 61-20484

Trans. of Optika i Spektroskopiya (USSR) 1958, v. 4 [no. 5] p. 620-630.

DESCRIPTORS: *Hydrocarbons, Benzoyl radicals, Solidified gases, Luminescence, Absorption, Spectrographic analysis, Optics, Fluorescence.

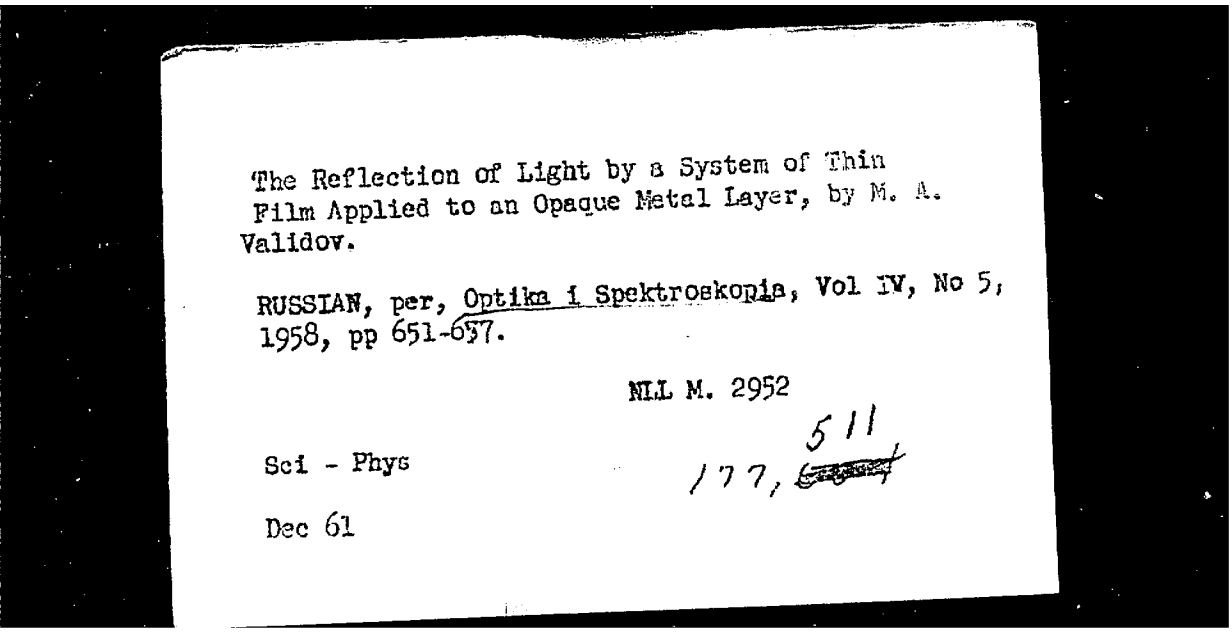
The luminescence spectra and the long-wave portion of the absorption spectra of pyrene and 3, 4-benzopyrene in solutions of normal paraffinic hydrocarbons from n-pentane to n-decane have been studied at the temperature of liquid nitrogen. It was shown that under these conditions the spectra exhibit a linear fine structure (Physics--Spectroscopy, TT, v. 7, no. 5) (over)

61-20484

I. Shpol'skii, E. V.
II. Girdzhiyauskaite, E. A.

K-H 9681-b

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3



"The Reflection of Light by a System of Thin Film Applied to an Opaque Metal Layer, by M. A. Validov.

RUSSIAN, per, Optika i Spektroskopia, Vol IV, No 5, 1958, pp 651-657.

NIL M. 2952

Sci - Phys

Dec 61

511
177, [illegible]

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Interaction Between Electrons and the Activator in NaCl-Ni and NaCl-Cu Phosphors, by I. A. Parfyanovich.

RUSSIAN, per, Optika i Spektro, Vol IV, No 5, 1958, pp 692-695.

NLL M. 2431

Sci - Chem

173,883

Nov 61

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Polarization of Luminescence and the Nature of Luminescent Centers in NaCl-Ag and KBl-Tl Crystals, by L. I. Tarasova, P. P. Feofilov, 4 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol IV, No 5, 1958, pp 696-697.

CIA/FDD XX-677
NOT RELEASABLE TO FOREIGN NATIONALS

NLL M.2430

Sci - Physics
Sep 59

98,060

USIB INTERNAL USE ONLY

Order from LC on SCA 59-15721

Sverdlov, L.M.
THÉORIE DES INTENSITÉS DES RAIES DE SPECTRES INFRAROUGES DE L'ÉTHYLÈNE ET DU TÉTRADENTÉRO-ÉTHYLÈNE (Teoriya Intensivnostei v Infrakrasnykh Spektrakh Etilena i Tetradeitero-etilena) (Theory of Intensities in the Infrared Spectra of Ethylene and Tetradenterioethylene). 14p. (foreign text included) 7refs. CNRS-VIII 110.
Order from OTS, ETC or CNRS $1.60 TT-62-28781

Trans. in French of Optika i Spektroskopiya (USSR) 1958, v.4, no.5, p.697-701.

DESCRIPTORS: *Ethylenes, Deuterium, Infrared spectroscopy, *Spectra (Infrared), Intensity.

(Physics--Spectroscopy, TT, v. 11, no. 9)

TT-62-28781

I. Sverdlov, L.M.
II. CNRS-VIII 110
III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Determination de la Composition Isotopique D'Apres les Spectres D'Adsorption, (Determination of the Isotopic Composition from the Adsorption Spectra), by A. N. Zaidel, 4 pp.

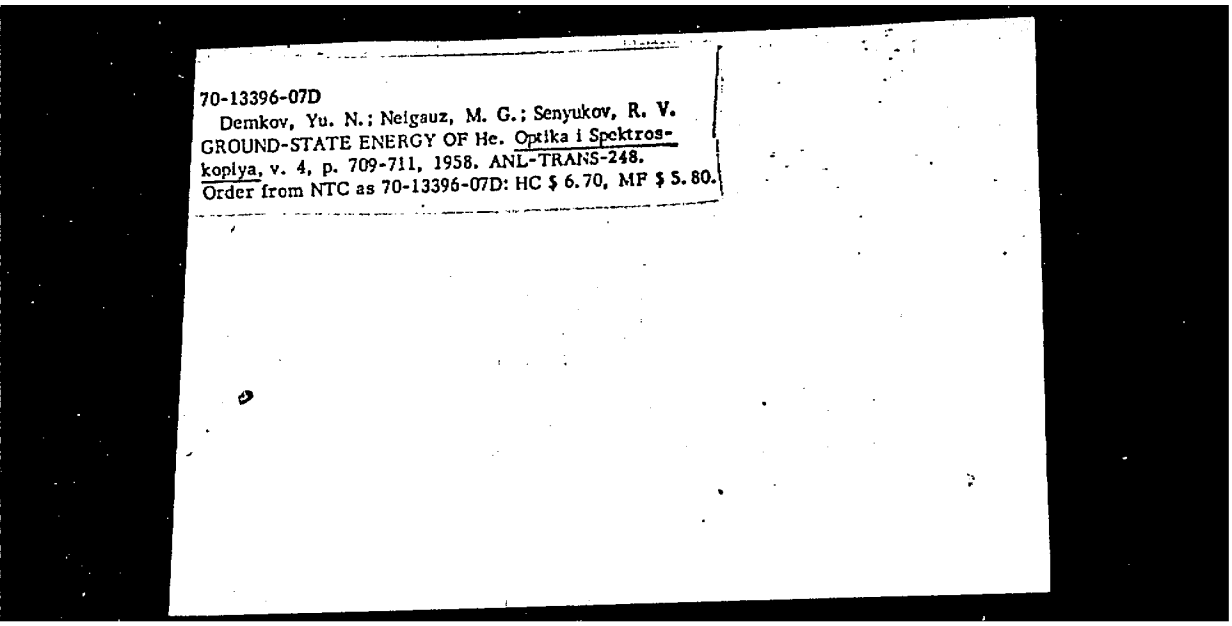
RUSSIAN to FRENCH, per, Optika i Spektroskopiya, Vol IV, 1958, pp 701, 702.

Reverse Trans
CEA Tr R-687

Sep 59

97,452

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3



70-13396-07D
Demkov, Yu. N.; Neigauz, M. G.; Senyukov, R. V.
GROUND-STATE ENERGY OF He. Optika i Spektroskopiya, v. 4, p. 709-711, 1958. ANL-TRANS-248.
Order from NTC as 70-13396-07D: HC $ 6.70, MF $ 5.80.

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Comparative Investigations of the Metrological Qualities of the Spectral Lines of Pb^{20} and Cd^{114}, by M. R. Beterchukova. UNCL

RUSSIAN, per, Optika i Spektroskopiya, Vol IV, No 1, 1958, pp 712, 713.

DSIR LLU RTS 1001
5s.0d.

Sci - Phys
May 59

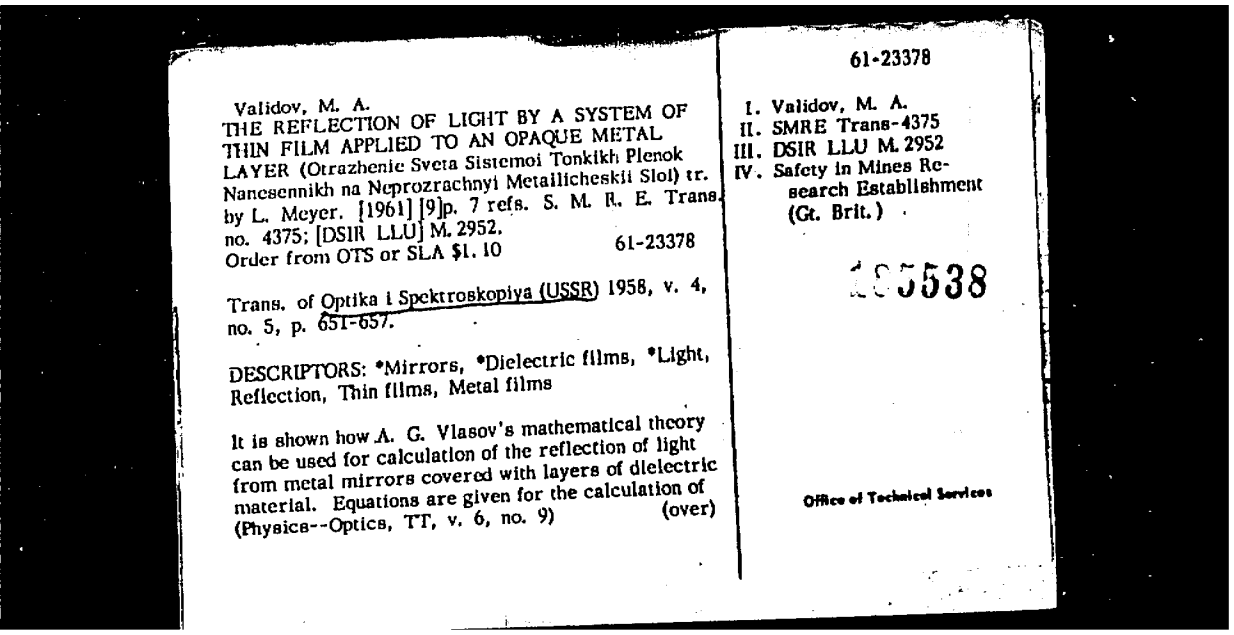
87,896

Determining the Degree of Heterogeneity
of a DC and AC Arc Discharge,
by I. V. Dvornikova, I. M. Nagibina, 16 pp.
RUSSIAN, per, Optika i Spektroskopiya,
Vol IV, No 4, 1958, pp 421-429. 9697292
FTD-TT-64-1138

Sci-Elec
Jul 65

263,543

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3



Validov, M. A.
THE REFLECTION OF LIGHT BY A SYSTEM OF THIN FILM APPLIED TO AN OPAQUE METAL LAYER (Otrazhenie Sveta Sistemoi Tonkikh Plenok Nanesennikh na Neprozrachnyi Metallicheskii Sloi) tr. by L. Meyer. [1961] [9]p. 7 refs. S. M. R. E. Trans. no. 4375; [DSIR LLU] M. 2952.
Order from OTS or SLA $1.10 61-23378

Trans. of Optika i Spektroskopiya (USSR) 1958, v. 4, no. 5, p. 651-657.

DESCRIPTORS: *Mirrors, *Dielectric films, *Light, Reflection, Thin films, Metal films

It is shown how A. G. Vlasov's mathematical theory can be used for calculation of the reflection of light from metal mirrors covered with layers of dielectric material. Equations are given for the calculation of (over)
(Physics--Optics, TT, v. 6, no. 9)

61-23378

I. Validov, M. A.
II. SMRE Trans-4375
III. DSIR LLU M. 2952
IV. Safety in Mines Research Establishment (Gt. Brit.)

185538

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Energy of the Normal State of He, by
Yu. N. Demkov, et al.
Rus ~~GERMAN~~, per, Optika i Spektroskopiya,
Vol 4, No 6, 1958, pp 709-714.
*AEC
EDC-30 Jan 1966

Sci/MGM
Nov 65

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

On the Measurement of Lifetimes of the Levels 3^3P and 3^1P of Helium Atoms by the Method of Delayed Coincidences, by A. L. Osherovich, I. G. Savich, 7 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol IV, 1958, pp 715-718. 9093263

AEC UCRL Tr-767(L)

190,388

Sci - Nuc Phys
Apr 62

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Ostrovskiy & Penkin

RUSSIAN, per, Optika i Spektroskopia, Vol Iv, No. 6, 1958, pp. 719-724.

*PL 480
OTS 61-11437

Dec 61

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Investigation of the Instaneous Brightness of a Flash Discharge, by F. A. Charnaya, 11 pp.

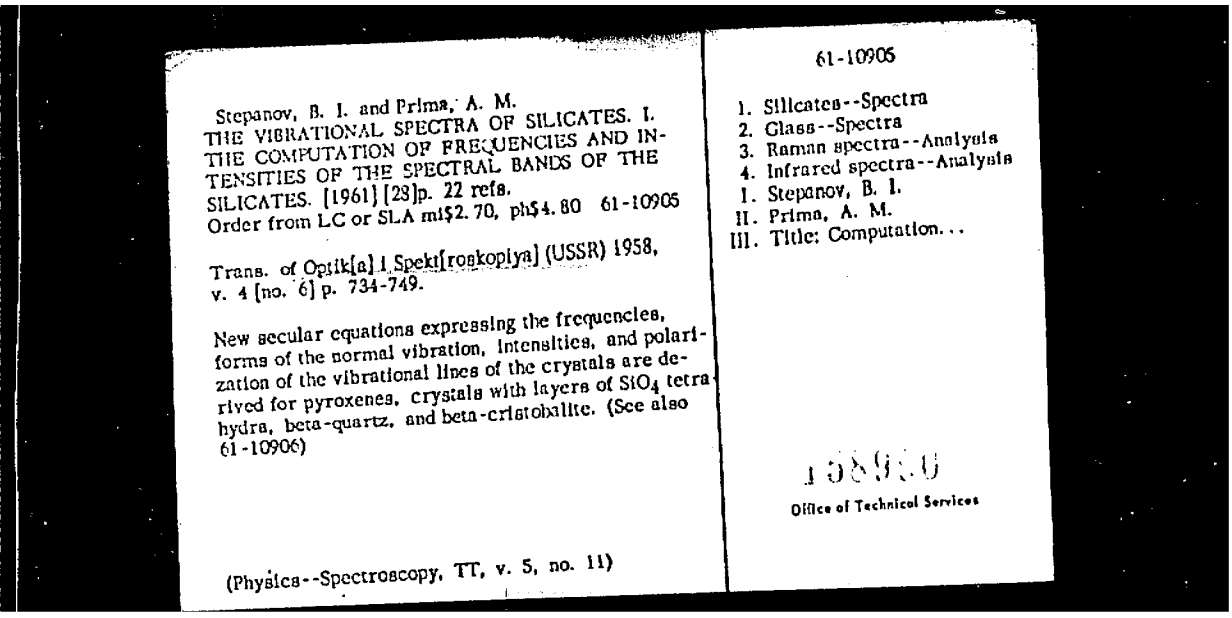
RUSSIAN, per, Optika i Spektroskopiya, Vol IV, 1958, pp 725-733.

AEC tr-3681

Sci - Phys
Feb 60

107, 202

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3



Stepanov, B. I. and Prima, A. M.
THE VIBRATIONAL SPECTRA OF SILICATES. I. THE COMPUTATION OF FREQUENCIES AND INTENSITIES OF THE SPECTRAL BANDS OF THE SILICATES. [1961] [23]p. 22 refs.
Order from LC or SLA mi$2.70, ph$4.80 61-10905

Trans. of Optik[a] i Spekt[roskopiya] (USSR) 1958, v. 4 [no. 6] p. 734-749.

New secular equations expressing the frequencies, forms of the normal vibration, intensities, and polarization of the vibrational lines of the crystals are derived for pyroxenes, crystals with layers of SiO_4 tetrahydra, beta-quartz, and beta-cristobalite. (See also 61-10906)

(Physics--Spectroscopy, TT, v. 5, no. 11)

61-10905

1. Silicates--Spectra
2. Glass--Spectra
3. Raman spectra--Analysis
4. Infrared spectra--Analysis
I. Stepanov, B. I.
II. Prima, A. M.
III. Title: Computation...

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

On the Causes for the Dependence of the Luminescence Yield of Organic Substances on the Energy of the Ionizing Particles, by M. D. Galanin, 7 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol IV, 1958, pp 758-762.

AEC Tr 3506

Sci - Phys
Feb 59

81,309

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Diffraction Gratings From the State Optical Institute, by F. M. Gerasimov, et al. UNCL

RUSSIAN, per, Optika i Spektro, Vol IV, No 6, 1958, pp 779-790.

DSIR LLU RTS 1005
Ll 10s.0d.

Sci - Phys
May 59

87,881

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Plates for VAcuum Ultraviolet Photography, by
I. R. Protas, 5 pp.

RUSSIAN, Per, Optika i Spektroskopiya, 1958,
Vol 4, IV, No 6, pp 803-805.

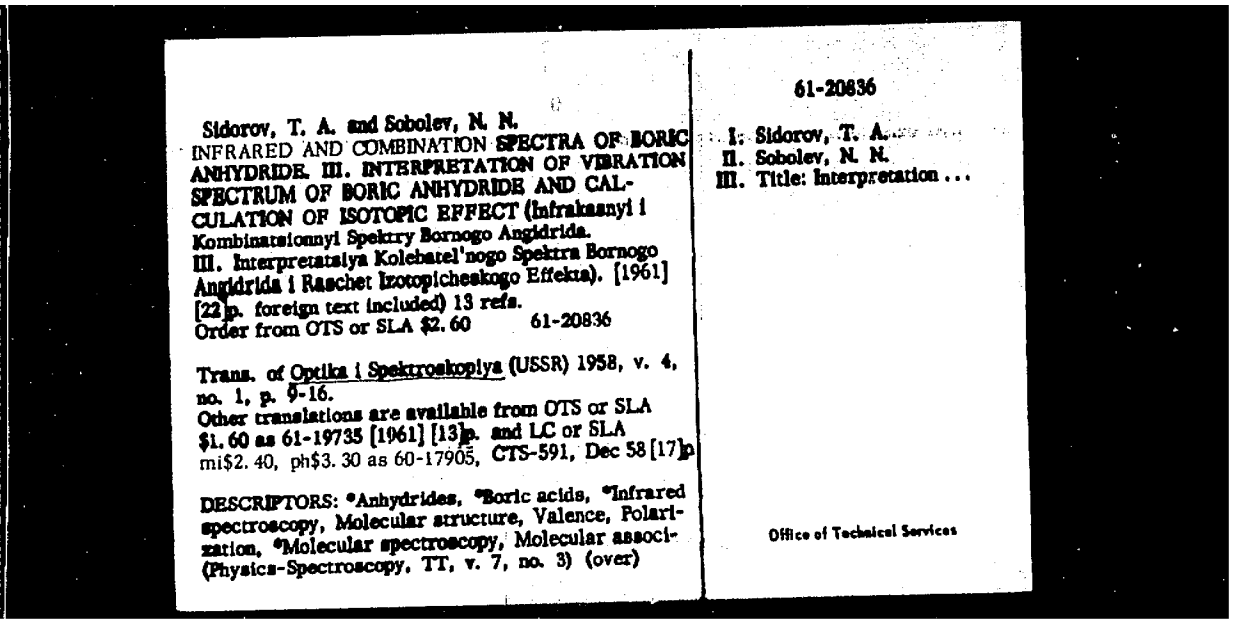
LC or SLA 59-15263

NLL M.2442

Sci
Nov 59
Vol 2, No 3

101, 344

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3



Sidorov, T. A. and Sobolev, N. N.
INFRARED AND COMBINATION SPECTRA OF BORIC ANHYDRIDE. III. INTERPRETATION OF VIBRATION SPECTRUM OF BORIC ANHYDRIDE AND CALCULATION OF ISOTOPIC EFFECT (Infrakrasnyi i Kombinatsionnyi Spektry Bornogo Angidrida. III. Interpretatsiya Kolebatel'nogo Spektra Bornogo Angidrida i Raschet Izotopicheskogo Effekta). [1961] [22]p. foreign text included) 13 refs.
Order from OTS or SLA $2.60 61-20836

Trans. of Optika i Spektroskopiya (USSR) 1958, v. 4, no. 1, p. 9-16.
Other translations are available from OTS or SLA $1.60 as 61-19735 [1961] [13]p. and LC or SLA mi$2.40, ph$3.30 as 60-17905, CTS-591, Dec 58 [17]p

DESCRIPTORS: *Anhydrides, *Boric acids, *Infrared spectroscopy, Molecular structure, Valence, Polarization, *Molecular spectroscopy, Molecular associ-
(Physics-Spectroscopy, TT, v. 7, no. 3) (over)

61-20836

I. Sidorov, T. A.
II. Sobolev, N. N.
III. Title: Interpretation . . .

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Determination of the Degree of Inhomogeneity in D-C and A-C Arc Discharges, by I. V. Dvornikova, I. M. Nagibina, 12 pp.
RUSSIAN, per, Optika i Spektroskopiya, Vol IV, No 4, 1958, pp 421-429.
OTS 63-11135
PL-480

Sci - Phys
Mar 64

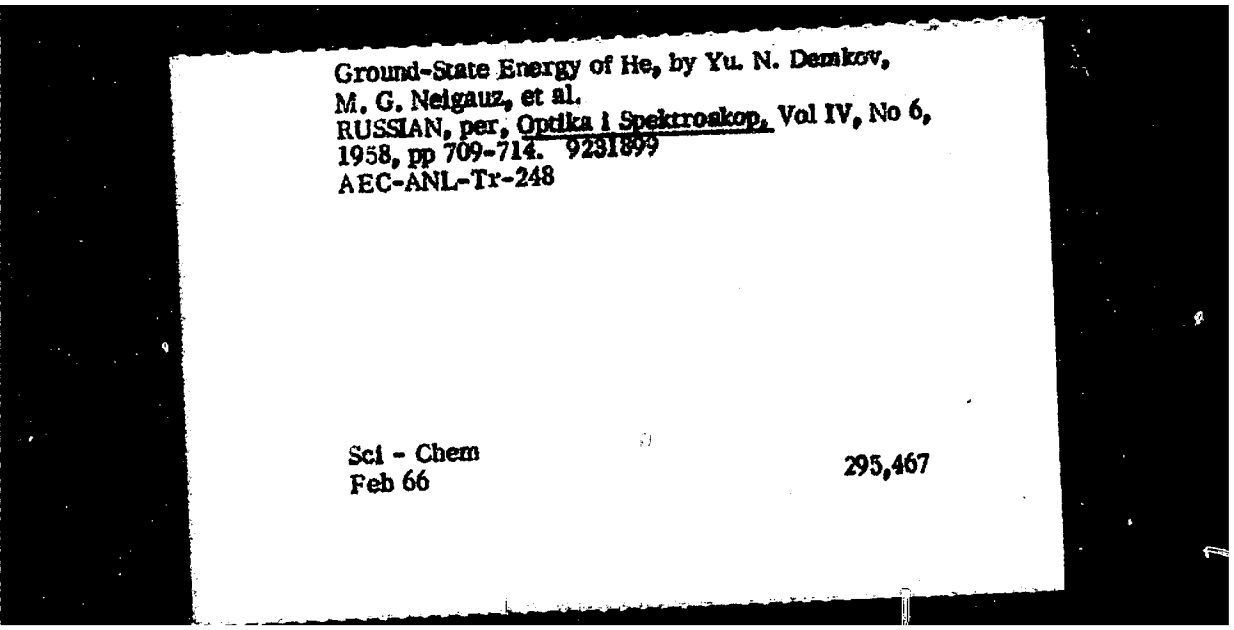
253,038

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Determination of the Concentration of Atoms in the Plasma of an A-C Arc From Line Widths, by
I. M. Nagibina, 8 pp.
RUSSIAN, per. Optika i Spektroskopiya, Vol IV, No 4, 1958, pp 430-437.
OTS 63-11135
PL-480

Sci - Phys
Mar 64

253,039



Ground-State Energy of He, by Yu. N. Demkov, M. G. Neigauz, et al.
RUSSIAN, per, Optika i Spektroskop, Vol IV, No 6, 1958, pp 709-714. 9231899
AEC-ANL-Tr-248

Sci - Chem
Feb 66

295,467

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

Stepanov, B. I. and Prima, A. M.
THE VIBRATIONAL SPECTRA OF SILICATES. II. INTERPRETATION OF THE SPECTRA OF GLASSES. [1961] [22]p. 15 refs.
Order from LC or SLA mi$2 70, ph$4.80 61-10906

Trans. of Optik[a] i Spekt[roskopiya] (USSR) 1958, v. 5 [no. 1] p. 15-22.

Previously derived equations (Optika i Spektroskopiya 4: 734-749, 1958; available in translation from LC or SLA mi$2.70, ph$4.80 as 61-10906) are used to calculate the vibrational spectra of silicate crystals and to interpret the Raman and IR spectra of the silicate glasses and several crystals. The spectra of metasilicate and bi-silicate are qualitatively different. The spectrum of glasses of the bi-silicate composition suggest the existence in glass of the elements of layers composed of SiO_4 tetrahydra. The crystals with chemical composition equivalent to that of bi-silicate possess the layers of SiO_4 tetrahydra.
(Physics--Spectroscopy, TT, v. 5, no. 11)

61-10906

1. Silicates--Spectra
2. Glass--Spectra
3. Raman spectra--Analysis
4. Infrared spectra--Analysis
I. Stepanov, B. I.
II. Prima, A. M.
III. Title: Interpretation...

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

S-13/60 (DC-3345).

Anomalous Variations of the Intensity of Samarium Spectrum Lines in A D.C. Arc, by R. R. Shvangiradze, 3 pp.

RUSSIAN, per, Optika i Spektro, Vol V, No 1, Moscow/Leningrad, 1958, pp 88-90.

JPRS 3343

Sci - Phys
Jun 60

117,223

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3

00/C-1184 (DC-2286)

Spectra of Electron Paramagnetic Resonance of Cr-Aromatic Compounds With Various Substitutes, by V. V. Voyevodskiy, Yu. N. Molin, V. M. Chibrikin,

RUSSIAN, per, Optika i Spektroskopiya, Vol V, 1958, pp 90-92.

*US JPRS

Sci - Chem

Oct 58

APPROVED FOR RELEASE: Wednesday, July 02, 2003 CIA-RDP91-00929R000200950058-3