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A.C.S.I.L. No 1067

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AEC NP 126

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INFRARED SPECTRA OF MOLECULAR COMPOUNDS
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[1960] 16p.
Order from ATS \$21.30 ATS-95M45R

Trans. of Optika, Spektroskopiya (USSR) 1957, v. 3,
no. 5, p. 480-494.

- 1. Metal halides--Spectra
- 2. Infrared spectra--
 Analysis
- 3. Title: Molecular compounds
 - I. Fillimonov, V. N.
 - II. Bystrov, D. S.
 - III. Terent, A. N.
 - IV. ATS-95M45R.
 - V. Associated Technical
 Services, Inc., East
 Orange, N. J.

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NLL 2-6: 58284F (M13330)

ATS RT-4074

Office of Technical Services

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

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USIE Internal Use Only

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II. Spatial Motion of the Ions in a Low Pressure
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*ACSI I-8301
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SLA 59-10911

NLL M. 3577

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On the Motion of Ions and the Shape of Their
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ATC HP-124

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*PL-480

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Nagibina, I. M.

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*PL-480
OTS 63-11135
PST-896

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TT-62-28585

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

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

Trans. in French of Optika i Spektroskopiya (USSR)
1958, v. 4, no. 3, p. 448-454.

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

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

Office of Technical Services
European Translations Centre

The Dependence of the Absorption of Infrared
Radiation by Water Vapor on Concentration
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and Groups of Lines in the Band, by K. P.
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HLA 60-23517

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Vol IV, No 7
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CIA/FDD KX-680

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Sci - Physics
Sep 59

11-1-59

98,062

USRB INTERNAL USE ONLY

Manufacturing and Distribution of Light ...
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CIA/ODD XL-679

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11-10-1987

Edi - Havana
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UNCLASSIFIED INTERNAL USE ONLY

Microwave Spectrum and Rotational Constants, of
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SLA 59-20860

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1958, pp 523-525.

CIA/TDR 101-678

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Sci - Physics
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NLL 101-678

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USIA INTERNAL USE ONLY

Investigation of Powerful Pulse Discharge With
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Radiospectroscopic Studies Of CH_3GeCl_3 by N.A.
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CSIRO Tr 4171

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(2436-D)

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No 5, Leningrad, 1958, pp 580-585.

US JPRS 523-D

Sci - Physics
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(2436-D)

On the Capture of "Free Excitons by Impurities in
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US JPRS 524-D

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Zee⁴man Effect of Anisotropic Centers in a
Cubic Crystal Lattice, by V. A. Arkhangel'skaya,
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No 5, 1958, pp 602-619.

ATS-21M39R
RTI/RT-2514

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Sci

Vol. 4, No 1
Mar 62

61-20484

Shpol'skii, E. V. and Girdzhyauskalte, 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

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

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.

Handwritten: K-4 20484

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 temper-
ature 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)

Negative copy loan
from OTS
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The Absorption and Luminescence Spectra of Nickel-
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Sci - Physics
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NLL M. J. J.

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The Reflection of Light by a System of Thin
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Vallidov.

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

NIA M. 2952

Sci - Films

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Interaction Between Electrons and the Acoustic Mode in
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MLL M. 2431

Sci - Chem

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Polarization of Luminescence and the Nature of
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CIA/PDD XI-577

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NLL 11/1/58

Sci. - Physics
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Order from LC on SLA 59-15721

TT-62-28781

Sverdlov, L.M.
THEORIE DES INTENSITES DES RAIES DE SPEC-
TRES INFRAROUGES DE L'ETHYLENE ET DU TETRA-
DENTRIO-ETHYLENE (Teoriya Intensivnostei
v Infrakrasnykh Spektakh Etilena i Tetradeitero-
etilena) (Theory of Intensities in the Infrared Spectra
of Ethylene and Tetradentrioethylene). 14p. (foreign
text included) 7 refs. CNRS-VIII 110.
Order from OTS, IITC or CNRS \$1.60 TT-62-28781

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

Trans. in French of Optika i Spektroskopiya (USSR)
1958, v. 4, no. 3, p. 697-701.

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

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

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Determination de la Composition Isotopique
D'Après les Spectres D'Adsorption, (Determination
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Reverse Trans
CEA Tr R-687

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70-13396-07D

Demkov, Yu. N.; Nelgauz, M. G.; Senjukov, R. V.

GROUND-STATE ENERGY OF He. Optika i Spektros-

kopiya, v. 4, p. 709-711, 1958. ANL-TRANS-248.

Order from NTC as 70-13396-07D: HC \$ 6.70, MF \$ 5.80.

Comparative Investigations of the Meteorological
Composition of the Spectral Lines of F_2 and
 Ca^{++} , by M. B. Batarshukova. URCL

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No 1, 1978, pp 712, 713.

DSIR MJU RES 1001.
5a.011.

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May 59

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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, 1948, pp 421-429. 9697292
FTD-TT-64-1134

Sci-Elec
Jul 65

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61-23378

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 Metallicheski 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
(Physics-Optics, TT, v. 6, no. 9) (over)

- I. Validov, M. A.
- II. SMRE Trans-4375
- III. DSIR LLU M. 2952
- IV. Safety In Mines Research Establishment
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Rus
Energy of the Normal State of He, by
Yu. N. Demkov, et al.
~~RESEARCH~~, per, Optika i Spektroskopiya,
Vol 4, No 6, 1958, pp 709-714.
*ABC
EBC-30 Jan 1960

Sci/ACN
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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)

Sci - Nuc Phys
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RUSSIAN, per, Optika i Spektroskopis, Vol Iv, No. 6,
1953, pp. 719-724.

*PL 430
OTS 61-11437

Dec 51

Investigation of the Instantaneous Brightness of a Plasma
Discharge, by E. A. Charnaya, 11 pp.

RUSSIAN, per: Optika i Spektroskopiya, Vol. IV, 1958,
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AEC tr-3881

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Stepanov, B. I. and Prima, A. M.
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(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.
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 late the vibrational spectra of silicate crystals and to
 interpret the Raman and IR spectra of the silicate
 glasses and several crystals. The spectra of meta-
 silicate and bi-silicate are qualitatively different. The
 spectrum of glasses of the bi-silicate composition sug-
 gest the existence in glass of the elements of layers
 composed of SiO₄ tetrahedra. The crystals with chemi-
 cal composition equivalent to that of bi-silicate possess
 the layers of SiO₄ tetrahedra
 (Physics--Spectroscopy, TT. v. 5, no. 11)

1. Silicates--Spectra
2. Glasses--Spectra
3. Raman spectra--Analysis
4. Infrared spectra--Analysis
1. Stepanov, B. I.
- II. Prima, A. M.
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DESCRIPTORS: *Optics, Atmosphere, *Light,
Scattering, Polarization, Electromagnetic waves,
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