

KISLCVA, T. A.

Metal'nikov, B. F. and <u>Kislova, T. A.</u> "Living cultures of geneeced in the cure of sulfamide-resisting generates," Nouch. zapiski Gor'k. inta derma telegli i venerologii i Kafedry kozhno-verenich. belezney GGMI im. Kirova, Issue 12, 1948, p. 247-52

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

KISLOVA, T. A.

Metal'nikov, B. P. and <u>Kislova, T. A.</u> "Comparative evaluation of different methods of treating sulfur-resisting forms of genorrhea in men by stimulation of the organisms by means of remedies," Nauch. zapiski Gor'k. in ta dermatologii i venerologii i Kafedry kozho-verenich. bolezney GGMI im. Kirova, Issue 12, 1948, p. 256-68.

SG: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No.3, 1949)

KISLOVA, Tatiyama Andronikovna; CHEKIN, V.P., dotsent, otv.red.;

KOTLYAROV, Yu.L., red.; SARANYIK, T.V., tekhred.

[Timber supply of coal industries] Lesosnabshenie ugol'noi promyshlennosti SSSR. L'vov, Izd-vo L'vovskogo univ., 1959.

89 p. (MIRA 12:10)

(Goal mines and mining—Equipment and supplies) (Timber)

ARTEM'YEV, S.A.; NYUNIKOVA, O.I.; ZHAROV, A.V.; METAL'NIKOV, B.P.; KISIOVA, T.A.; STAROSTINA, Z.D.; CHASTIKOVA, A.V.; TEMYANKO, S.A.; IKOHNIKOV, N.H.; ARAIOVA, Z.T.; GRISHIMA, A.M. Levenycetin in the treatment of gonorrhea; results of a cooperative study. Vest. derm. i ven. 33 no.2:70-73 Mr-Ap 159. 1. Iz TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (zav.otdelom gonorei - prof. I.M. Porudominskiy, dir. - kand. med. nauk N.M. Turanov) Ministerstva zdravookhraneniya BSFSR. 2. TSentral'nyy nauchno-issledovatel'skiy kozhno-venerologicheskiy instituta (for Kyunkova). 3. Bashkirskiy krayevoy kozhno-venerologicheskiy institut (for Zharov). 4. Gor kovskiy krayevoy kozhno-venerologicheskiy institut (for Temyanko). 5. Sverdlovskiy krayevoy kozhno-venerologicheskiy institut (for Grishina). (CHIORAMPHENICOL, ther. use. gonorrhea (Rus)) (GONOHRHEA, ther. chloramphenicol (Rus))

BORISOVA, I.V., kand. ekonom. nauk; KISLOVA, T.A., dots.; MAKAROV,
N.A., starshiy prepodavatel'; POLYANSKIY, Ye.V., dots.;
GRINSHPON, F.O., red.; MAIXAVKO, A.V., tekhn. red.

[Economics, organization, and planning in forestry] Ekonomika,
organizatsiia i planirovanie lesnogo khoziaistva. L'vov, Izd-vo
L'vovskogo univ., 1961. 302 p.

(Forests and forestry—Economic aspects)

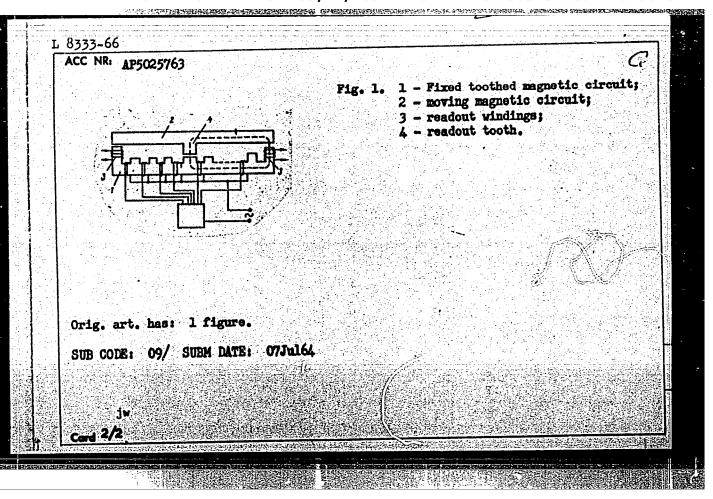
(Forests and forestry—Economic aspects)

L 43889-65 EWP(j)/EVT(m)/T Pc-4 RM UR/0286/65/000/007/0090/0090 ACCESSION NR: APSOLO9CO AUTHORS: Sheyn, T. I.; Kudryavtsev, G. I.; Fedorova, R. G.; Kislova, T. I. TITLE: A method for obtaining polyamide fiber. Class 29, No. 169761 SOURCE: Byulleten! izobreteniy i tovarnykh znakov, no. 7, 1965, 90 TOPIC TAGS: synthetic fiber, polyamide, xylylene, adipic acid ABSTRACT: This Author Certificate presents a method for obtaining polyamide fiber on the base of n- and m-mylylenediamins and adipic acid. To increase the thermal stability of the fiber, the salts of n-mylylenedismine and adipic acid undergo polycondensation with an addition of 5-20% of manylylonediamine salt and adipic acid in a solid state at a temperature 40-600 below the melting temperature of the obtained polyamide. This process is conducted in the presence of a thermostabilizer or a plasticizer and is followed by forming the fiber in the usual manner ASSOCIATION: Veesoyuznyy nauchio-losledovateliskiy institut lakusstvennogo volokma (All-Union Scientific Research Institute of Synthetic Fibers) Card 1/2

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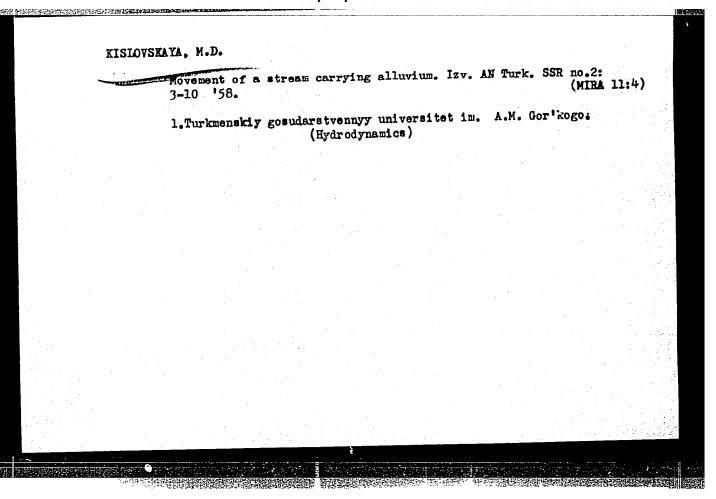
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SOURCE: Byulleten'	izobreteniy i tovarnykh znakov, no. 18, 1965, 130-131
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KIGGOVE, Z.J. (Ryzan')

General histocytic reaction in resonatic fever. Nearly Risz. mod. inst. 14:109-120 -163. (MIRA 17:5)



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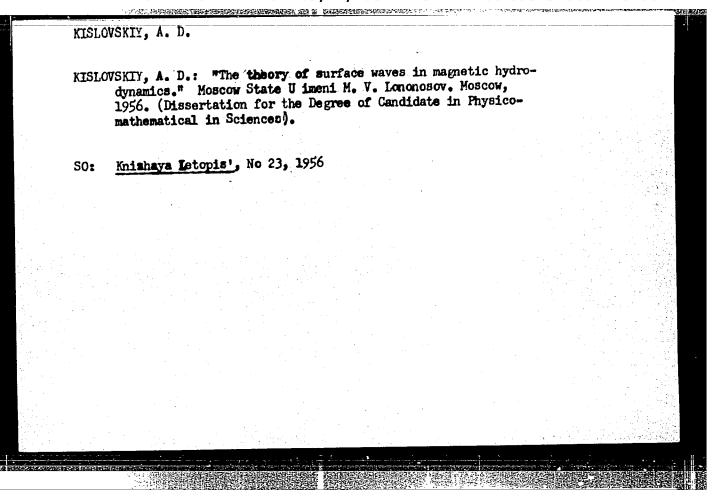
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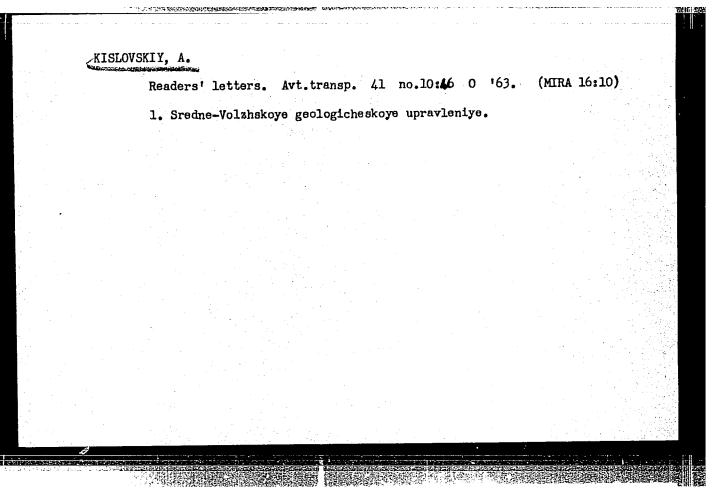
GW EWT(1) L 09157-67 SOURCE CODE: UR/0387/66/000/007/0020/0025 ACC NR: AP7002324 AUTHOR: Kaptsan, A. D.; Kislovskaya, V. V. ORG: Institute of Physics of the Earth, AN SSSR (Institut fiziky zemli AN SSSR); Physics Faculty, Moscow State University, AN SSSR (Fizicheskiy fakul tet, Moskovskiy gosudarstvennyy universitet AN SSSR) TITIE: Energy focusing in the asthenospheric layer SOURCE: AN SSSR. Izvestiya. Fizika zemli, no. 7, 1966, 20-25 TOPIC TAGS: earthquake, seismologic station ABSTRACT: Data from five deep-focus earthquakes with magnitudes M = 6.8-7.3, recorded by Soviet seismic stations, were used in investigating some dynamic characteristics of the Pa wave which propagates in the low-velocity asthenospheric. layer. On the amplitude hodograph of this wave there is a regular alternation of the maxima and minima. On the basis of collected data on the distances between extremal points the authors have computed the thickness of the waveguide layer in the asthenosphere. The thickness of the waveguide obtained using these data was 156 km. It was concluded that the low-velocity layer in the mantle under the territory of the USSR experiences no variations in thickness. Orig. art. has: 3 figures, 3 formulas and 1 table. [JPRS: 37,397] ORIG REF: 007 / OTH REF: 009 SUB CODE: 08 / SUBM DATE: 21Sep65 / 550.342

KISLOVSKI, Andrej, inz., asistent (Greica Milenka 19, Beograd)

Phantastron with the direct-current coupling. Tehnika Jug
17 no.5:Suppl.: Elektrotehnika 11 no.5:935-936 My '62.

1. Elektrotehnicki fakultet Univerziteta u Beogradu.





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"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722820018-1

sov/58-59-4-7324

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 4, p 16 (USSR)

AUTHOR:

Kislovskiy, A.D.

TITLE:

On the Theory of Surface Waves in Magnetohydrodynamics

PERIODICAL:

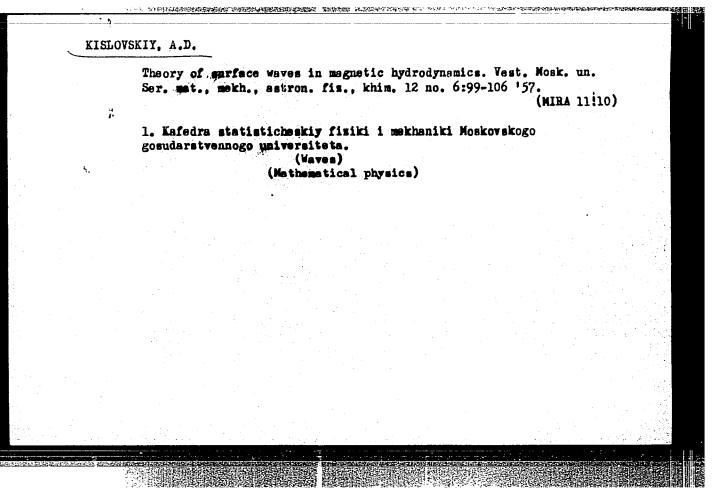
Uch. zap. Turkm. un-t, 1957, Nr 11, pp 119 - 147

ABSTRACT:

The author undertakes a linear approximation of surface waves in an incompressible conducting fluid placed in the parallel surface of a magnetic field. A similar nonlinear problem is solved in the form of a multiple series on the assumption that the viscosity is equal to zero, the conductivity is infinite, the flow is potential, and volume currents are absent but the surface current is not equal to zero.

S.I. Syrovatskiy

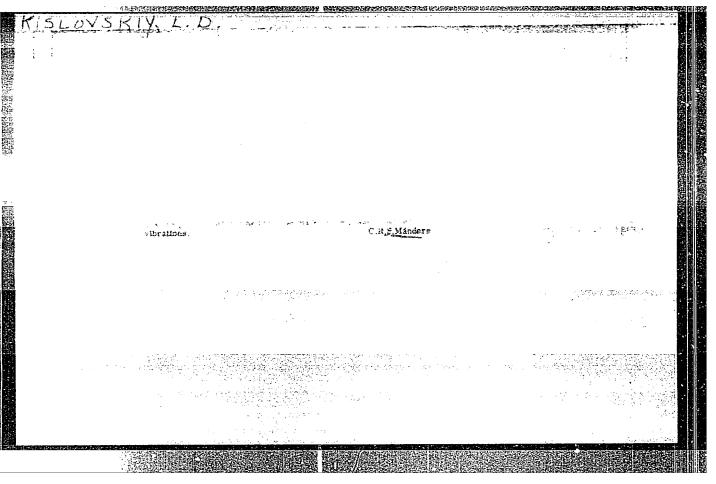
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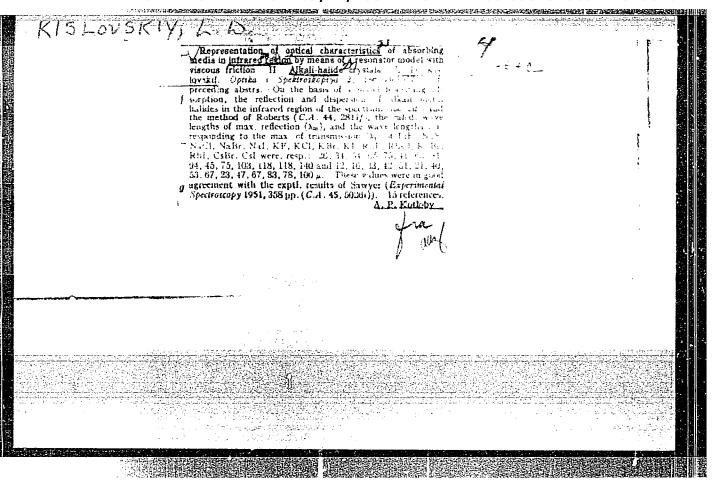
LEHEG, A. [Lebesgue, Henri]; KISLOVSKAYA-KARSKAYA, O.I. [translator]; YAGLOM, I.M., red.; MOLCHANOV, M.P., red.; SMIRNOVA, M.I., tekhn.red.

[Measurement of size] Ob immerenti velichin. Izd.2. Pod red. I.M. IAgloma. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv. REFER, 1960. 203 p. Translated from the French. (MIRA 14:1) (Mensuration)



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		[L'voy] Isd-vo L'voyskogo univ-ta, 1957. 499 p. 4,000 coples printed. (Series: Its: Pizychnyy zbirnyk, vyp. 1/8/)	
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KISLOVSKIY, L.D

AUTHOR: Kislovskiv, L. D.

51-4 -1-16/26

TITLE:

Optical Characteristics of Copper Halides in the Absorption Bends at the Temperature of Liquid Nitrogen.

(Opticheskiye kharakteristiki galogenidov medi v

polosakh pogloshcheniya pri temperature zhidkogo azota.)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol. IV, Nr. 1, pp. 98-100. (USSR)

ABSTRACT: S. Nikitin and his co-workers (Refs.1-5) reported

measurements of absorption and reflection of the

visible light by layers of copper halides sublimated onto glass at the liquid-nitrogen temperature. Results

for CuI (Ref.1) near the 4052.2 A band and the

experimental results of Refs. 3,4 may be discussed on

the basis of the present author's theory (Ref.6),

which uses a damped oscillator model. To find the

optical characteristics of a layer near the absorption

Card 1/3 band the author used values of the refractive index

Optical Characteristics of Copper Halides in the Absorption Bands at the Temperature of Liquid Nitrogen.

outside that absorption band, wavelengths corresponding to the maxima and minima on the reflection curve, and the fact of coincidence of the reflection and absorption Fig.l shows calculated optical characteristics for a CuI film. Circles on the dispersion curve represent experimental values from Ref.2; they agree satisfactorily with the calculated values. The half-width of $8\ \text{R}$ and the maximum value of the absorption coefficient of 0.65 x 106 cm-1, calculated by the present author, are in better agreement with the experimental values of Ref.1 than the values calculated on the basis of Drude and Lorentz-Lorenz's theory as given in Ref.1. Fig.2 shows the optical character-Card 2/3 istics of CuCl and CuBr films. The values of

51-4-1-16/26 Optical Characteristics of Copper Halides in the Absorption Bands at the Temperature of Liquid Nitrogen.

half-widths obtained by calculation show poorer agreement with experiment than in the case of CuI; this may be due to a more complex composition of the CuCl and CuBr bands. There are 2 figures and 8 references, of which 5 are French; 2 Russian and 1 English.

ASSOCIATION: State Institute of Optics imeni S.I. Vavilov. (Gos. opticneskiy institut im. S.I. Vavilova.)

SUBMITTED: March 28, 1957.

AVAIJABLE: Library of Congress.

1. Copper halides-Optical characteristics-Theory

2. Copper halides-Absorption 3. Copper halides-Reflection

Card 3/3

KISLOVSKIY, L.D.

AUTHOR: Kislovskiy, L. D.

51-4 -1-17/26

TITIE:

Certain Optical Properties of Corundum.

(Nekotoryye cpticheskiye kharakteristiki korunda.)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol. IV, Nr. 1, pp. 100-102. (USSR)

ABSTRACT: Synthetic corundum is a promising optical material (Ref.1). It possesses a wide transmission band (0.2 - 6.0 µ; see Fig.a) and high mechanical, chemical and thermal stability. The optical properties of corundum (transmission, reflection and dispersion of the ordinary ray in leuco-sapphire) were studied by a large number of workers. Unfortunately the values of the refractive index in the ultraviolet and infrared regions are not reported at all, and the Card 1/3 data on the reflection and absorption in those regions

51-4-1-17/26

Certain Optical Properties of Corundum.

are not very complete. The present communication reports calculation of the optical properties of corundum in a wide spectral region $(0.075 - 35.0 \mu)$ using a number of separate experimental values for some of these properties. The calculation follows the method given in Refs.9,10, and is based on approximation of the amplitude and phase of the reflected wave by the amplitude and phase of degenerate vibrations of a damped oscillator. The fundamental quantities necessary for calculations are given in Table 1. The values of the refractive index calculated by the author are given in Table 2. The calculated reflection spectrum (curve b) is compared with experimental values (Refs. 3, 7, 8) denoted by open circles. Calculated values of the Card 2/3 optical constants (refractive index and absorption

51-4-1-17/26

Certain Optical Properties of Corurdum.

coefficient) in the regions of strong absorption are given in Table 3. Curve v in the figure on p.100 shows the transmission spectrum of corundum powder calculated from the data of L.V. Levitskiy and the data of Ref.5. In agreement with values of Table 3, curve v shows a maximum at 9 μ and increase of transmission beyond 20 μ . The author thanks B.S. Neporent for his interest in this work, and L.V. Levitskiy for measurement of corundum powder transmission up to 15 μ . There is 1 figure, 3 tables and 12 references, of which 5 are Russian, 2 French, 3 English, 1 Italian and 1 of unknown origin.

ASSOCIATION: State Institute of Optics imeni S.I. Vavilov. (Gos. opticheskiy institut im. S.I. Vavilova)

SUBLITTED: March 28, 1957.

AVAILABLE: Library of Congress.

Card 3/3

1. Corundum-Optical properties

SOV/51-5-1-11/19

AU THOR:

Kislovekiy, L.D.

TITLE:

On the Problem of Determination of Optical Characteristics from Reflection (K voprosu ob opredelenii opticheskikh kharakteristik

po otrazheniyu)

PERIODICAL:

Optika i Spektroskopiya, 1958, Vol 5, Nr 1, pp 66-70 (USSR)

ABSTRACT:

A universal graphical method for determination of optical constants from two photometric reflection measurements is described. This method makes it possible to find the values of the refractive index (n), the absorption coefficient (k), $\varepsilon_1 = n^2 - k^2$ and $\varepsilon_2 = 2nk$, given the values of the ratio of the reflected to the incident amplitudes (p) The procedure can be and the phase-shift on reflection (6). generalized to oblique angles of incidence. Using a photographic enlarger the procedure can be speeded up by projecting a grid of (ρ, d) on a required scale on to the plane (n, k). The method is explained in detail and examples of appropriate graphs are given.

Card 1/2

SOV/51-5-1-11/19
On the Problem of Determination of Optical Characteristics from Reflection

The author thanks B.S. Neporent for advice. There are 3 figures and 21 references, 6 of which are Soviet, 5 English, 4 French, 3 American, 2 translations and 1 German.

ASSOCIATION: Gosudarstvennyy opticheskiy institut im. S.I. Vavilova (State Optical Institute imeni S.I. Vavilov)

SUBMITTED: September 13, 1956

Card 2/2 1. Light - Reflection 2. Light - Properties 3. Optical materials Refractive index 4. Photometry - Applications 5. Enlargers
(Photography) - Applications 6. Data - Analysis

AU THORS:

Pivovarov, V.M. and Kislovskiy, L.D.

507/51-5-3-4/21

TITLE:

On the Ancialous Behaviour of the Raman Line Intensities in Two-Component Mixtures (K voprosu ob anomalinem khode intensivnesti

liniy kombinatsionnogo rasseyaniya dvukhkomponentnykh smesey)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 3, pp 251-255 (USSR)

ABS TRACT:

Bobovich and Tulub (Ref 1) and Pivovarov and Bobovich (Ref 2) found that in certain two-component mixtures the Raman line intensities of one component are not proportional to the concentration of that component. Fig 1, which is based on the data of Ref 2, shows the dependence of the Raman intensity on concentration for three mixtures: C2H5OH--C6H6, (CH3)2GO--C6H6 and CHCl3--C6H6. The present authors studied the changes of the Raman line intensities in two-component mixtures and compared them with the changes in the positions and intensities of absorption bands which are non-active in the Raman scattering. All these changes were studied as a function of the concentration of one of the components. The substance used was benzene; it was dissolved in acetone, ethyl alcohol or in chloroform. The concentration dependence

Card 1/3

SOV/51-5-3-4/21

On the Anomalous Behaviour of the Raman Line Intensities in Two-Component Lixtures

of the integral intensity of the non-active 2600 & absorption band of Solutions of benzene with 20, 40, 60, 80 benzene was investigated. and 100% by volume of benzene were used. It was found that the 2600 & band intensity is proportional to the concentration of benzene in acetone and in ethyl alcohol (Fig 2). When benzene is dissolved in chloroform an anomalous increase of the 2600 & band intensity is observed with decrease of the concentration of benzene. The latter result agrees with that reported by Bayliss and Hulme (Ref 7). The concentration dependence of the 2600 & absorption band in benzene may be qualitatively explained by means of the "damped oscillator" model proposed earlier by one of the present authors (Kislovskiy The discussion of the "damped oscillator" model is Refs 8, 9). illustrated by Figs 3 and 4 which show the effect of the refractive index on the position and intensity of an absorption band and the change in the position and intensity of a weak absorption band which lies in the wing of a strong band. Application of this model to the active absorption bands made it possible to explain their changes and

Card 2/3

CIA-RDP86-00513R000722820018-1" APPROVED FOR RELEASE: 09/17/2001

On the Anomalous Behaviour of the Raman Line Intensities in Two-Component Mixtures

to show why the anomalies in the concentration dependence of the Raman line intensities should occur. The discussion given in the present paper is of preliminary and phenomenological nature, and it does not deal with the molecular mechanism of the observed effects. The authors thank B.S. Neporent and Ya.S. Bobovich for their criticism and advice. There are 4 figures and 10 references, 9 of which are Soviet.

ASSOCIATION: Gosudars tvennyy opticheskiy institut im. S.I. Vavilova (State Optical Institute imeni S.I. Vavilov)

SUHLITTED: October 21, 1957

Card 3/3 1. Benzene--Spectrographic analysis 2. Benzene solutions--properties 3. Raman spectrum--Applications

24(7), 24(4)

Kislovskiy, L.D.

sov/51-6-6-20/34

AUTHOR:

TITLE:

Reflection Spectrum and Optical Properties of Terylene in the Region 700-1300 cm-1 (Spektr otrazheniya i opticheskiye kharakteristiki

terilena v oblasti 700-1300 cm-1)

FERIODICAL: Optika i spektroskopiya, 1959, Vol 6, Nr 6, pp 810-812 (USSR)

ABSTRACT:

The paper describes a determination of the optical properties of amorphous terylene, as used for production of artificial fibres, from its reflection spectrum using the method described earlier by the author (Ref 5). The method is based on representation of separate reflection bands as damped resonators whose amplitudes and phases are considered to be the amplitudes and phases of normal reflection. The specular reflection spectrum (Fig 1) on practically normal incidence of light on a polished terylene plate was obtained by means of a spectrometer IKS-11 with an NaCl prism. A plate of crystalline KBr, whose refractive index is well known, was used as the reflection standard. By plotting the reflection band peaks on the complex refractive index plane (details in Ref 5) the author obtained the values of the optical constants n and k of terylene in the

card 1/2

Reflection Spectrum and Optical Properties of Terylene in the Region 700-1300 cm⁻¹.

region 600-1300 cm⁻¹. These constants are shown as functions of wavelength in Fig 3. There are 3 figures, 1 table and 7 references, 2 of which are Soviet, 3 English, 1 German and 1 international.

Card 2/2

SOV/51-7-3-5/21

AUTHOR:

Kislovskiy, L.D.

TITLE:

Optical Properties of Water and Ice in the Infrared and Radiowave

Regions of the Spectrum.

PERICDICAL: Optika i spektroskopiya, 1959, Vol 7, Nr 3, pp 311-320 (USSR)

ABSTRACT:

The author calculated the values of the optical constants (the refractive index n and the absorption factor k) of water and ice in a wide range of infrared and radiowave frequencies. The calculations were based on the author's own model (Ref 15). The author used certain published data and some of his own experimental results. Some of the data used in calculations of the optical constants of water in the infrared region are given in Table 1: this table lists the reflection maxima and minima at the water-fluorite boundary at 2.83, 6.0 and 6.55 μ , reflection minima and maxima at the water-air boundary at 11.0 and 20 μ , absorption maxima at 15.8 and 60 μ and permittivity at 300 μ (ϵ = 4.2). From the first three values listed in Table 1 the author constructed a "resonance circle", shown in Fig 2. From this circle the author deduced the values of the optical constants n and k in the region 2.2-3.4 μ (Fig 15). Fig 1A shows the spectrum of reflection at the fluorite-water boundary

card 1/3

Optical Properties of Water and Ice in the Infrared and Radiowave Regions of the

in the region 2.1-3.4 μ obtained by means of an IKS-11 spectrograph with an LiF prism. Using the data of Table 1, Schulz's formula for the dispersion of water in the ultraviolet visible regions can be extended to the near infrared by addition of a term due to the absorption band at 2.92 μ . At 20°0 the dispersion formula is then given by Eq (1), where λ is in microns. Fig 3A represents the author's reflection spectrum at the fluorite-water boundary in the region 4.5-8.5 μ . Fig 4 shows the "resonance circle" for this spectral region and Fig 35 gives the wavelength dependence of n and k of water found using Fig 4. Fig 5 shows the "resonance curve" for all the absorption bands of water in the infrared region. Fig 6 shows the reflection spectrum at the water-air boundary (Fig. 64) and the wavelength dependence of n and k between 2 and 200 μ (Fig 65), deduced from the curve of Fig 5. The more important parameters of the absorption bands between 2 µ and 1 cm are collected in Table 3. Using Debye's and Maxwell's formulae, the wavelength dependence of the optical constants of water in the radiowave region was constructed. is shown in Fig 7 for wavelengths from 0.01 cm to 1000 km; the upper continuous curve and the left-hand dashed band represent water, the other two curves in Fig 7 represent ice. In calculation of the optical constants of ice in the infrared region the author used the -10°C data

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Optical Properties of Mater and Ico in the Infrared and Radiowave Regions of the Spectrum.

listed in Table 4, i.e. reflection maxima and minima at 3.2, 2.8, 13 and 10 μ , absorption maxima at 12.5 and 62 μ and permittivity at short marvelengths (E = 3.17). The calculation yielded wavelength dependence of the optical constants of ice between 2 and 200 μ (Fig 95). The more important characteristics of the infrared absorption bands of ice are listed in Table 5. Using Eringhaus's and the author's own (Table 5) data a dispersion formula was deduced for polycrystalline ice which is valid in the visible and near infrared region at -10°C; this formula is given in Eq (7). The optical constants of ice in the Debye absorption region were determined using the author's own equations and certain experimental constants listed by Steineman et al (Ref 44) and Smyth et al (Ref 50). The results of the calculation for -10°C are shown in Fig 7 where the lower continuous curve represents the refractive index and the right-hand dashed band gives the absorption factor of ice; these constants are given for wavelengths from 0.01 cm to 1000 km. Acknowledgment is made to B.S. Neporent for his advice. There are 9 figures, 5 tables and 53 references, 12 of which are Soviet, 23 English, 12 German, 3 French, 2 Swiss and 1 international.

Gard 3/3

SUZMITTED: December 25, 1958

KISLOVSKIY, L. D., Cand Phys-Math Sci (diss) -- "A method of determining the optical characteristics of isotropic media with strong absorption bands (the 'resonant environment' method)". Leningrad, 1960. 14 pp (State Order of Lenin Optical Inst im S. I. Vavilov), 150 copies (KL, No 15, 1960, 131)

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	Ural'skoye noveshchaniye po spektroskopii. 3d, Sverdlovsk, Materialy (Materials of the Third Ural Conference on Spe copy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errat inserted. 3000 copies printed.	ictron-			
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	Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of l ing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.	s. G. Publish-			
	PURPOSE: The book, a collection of articles, is intended members of spectral analysis laboratories in industry a tific research organizations, as well as for students of disciplines and for technologists utilizing analytical	na scien- Crelated		Mayork at 1887 The work	
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lems of the application presents theoretical and practical lems of the application of atomic and molecular spectral sis in controlling the chemical composition of various matry, and medicine. The authors express their thanks to G. Chentsova for help in preparing the materials for the presented articles.	analy-F terials	
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	Bogomolov, S. G., A. P. Kolesov, M. P. Grebenshchikova, and E. I. Gorbunova. Utilization of ultraviolet spectroscopy in analysis of by-product coke xylene	15	5 7 `.		
	Korshunov, A. V., and A. A. Kolovskiy. Spectra of low- frequency Raman light scattering by some heptahydrate crystals	16	БĻ		
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ZOLOTAREV, V.M.; KISLOVSKIY, L.D.

Attachment to an IKS-14 spectrophotometer for obtaining spectra of liquid and solid objects by the method of disturbed total internal reflection. Prib. i tekh. eksp. 9 no.5:175-177 S-0 164. (MIRA 17:12)

1. Gosudarstvennyy opticheskiy institut.

Use of infrared reflection spectra in studying phase transiti in triglycine sulfate crystals. Kristallografiia 10 no.2:209-Mr-Ap '65. (MIRA 18	213	
1. Gosudarstvennyy opticheskiy institut imeni S.I. Vavilova.		
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L 29512-65 EWT(m)/EWP(t)/EWP(6) IJP(c)

ACCESSION NR: APS005046

S/0051/65/018/002/0318/0320

AUTHOR: Shaganov, I. I.; Kislovskiy, L. D.; Rudyavskaya, I. G.

TITLE: Free carrier absorption in silicon in the 40-100 micron region

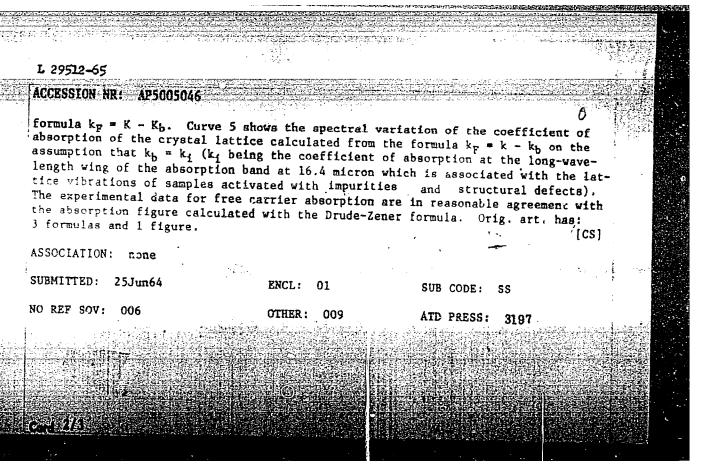
SOURCE: Optika i spektroskopiya, v. 18, no. 2, 1965, 318-320

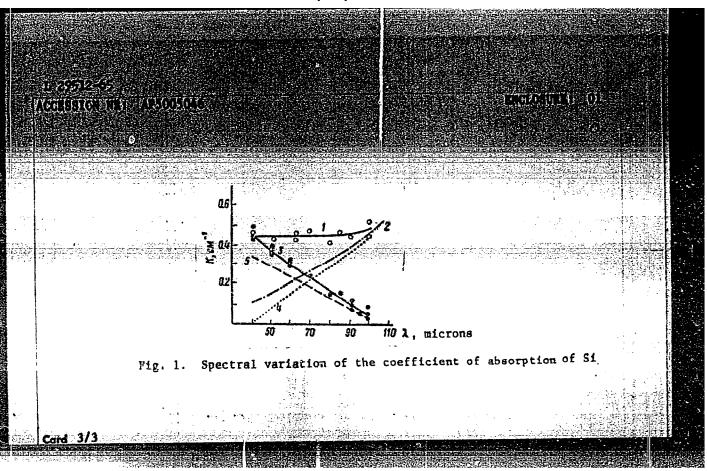
TOPIC TAGS: silicon, absorption, free carrier absorption, infrared absorption,

lattice absorption, free carrier

ABSTRACT: Measurements were made at room temperature of the transmission of n-type Si specimens with a free carrier concentration of $4 \cdot 10^{14}$ cm⁻³ and a resistivity of 15 ohm cm, and of compensated samples with a resistivity of 104 ohm cm obtained by fast neutron pombardment. The experiments were conducted in the spectral range between 40 and 100 microns on samples 1-10 mm thick. Figure 1 of the Enclosure shows the variations of the coefficient of absorption (k) of Si samples with a resistivity of 15 ohm cm. Curve 2 shows the spectral variation of the coefficient of absorption of free carriers (kg) calculated from the Drude-Zener formula. Curve 3 shows the spectral variation of the coefficient of absorption (kb) of Si specimens bombarded with fast neutrons (compensated samples). Curve 4 shows the spectral variation of the coefficient of absorption by free carriers calculated by the

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L 7843-66 EWT(m)/EPF(c)/EWP(j)/EP(t)/EWP(b) ACC NR: AP 5028098 IJP(c) SOURCE, CODE: UR/0048/65/029/011/1966/1968/ AUTHOR: Galanov, Ye.K.; Kislovskiy, ORG: State Optics Institute im. S.I.Vavilov (Gosundarstvennyy opticheskiy institut; Institute of Crystallography, Academy of Sciences, SSSR (Institut kristallografiya kristallografii Akademii nauk SSSR) TITLE: Changes in the infrared reflection spectrum of triglycine sulfate incident to the phase transition /Report Fourth All-Union Conference on Ferroelectricity held at Rostov-on-the-Don 12-18 September 19647 II 11.55 SOURCE: AN SSSR. Izvestiya.Seriya fizicheskaya,v.29, no.11, 1965, 1966-1968 TOPIC TAGS: Ferroelectric crystal, phase transition, light reflection, IR absorption, ABSTRACT: By comparing their previous infrared reflection measurements on triglycine sulfate crystals (Ye.K. Galanov and L.D. Kislovskiy, Kristallografiya, 10, No.2, 209 (1965)) with x-ray diffraction data and the results of Raman and infrared absorption spectroscopy found in the literature, the authors have derived vibrational assignments for 25 reflection bands with wave numbers between 504 and 3150 cm-1; these are tabulated and compared with assignments arrived at by R.S.Krishnan and P.S.Narayanan (Crystallography and Crystal Perfection. Ed. G. N. Ramachandran, p. 329, L. - N. Y., Acad. Press, 1963). Changes in the spectrum at the phase transition point were observed

L 7843-66

ACC NR: AP 5028098

only with crystals cut perpendicular to the baxis, in the direction of spontaneous polarization, and only in the vicinity of the absorption at 1150 cm⁻¹, which is due to the breathing of the NI3+ group in the glycine I molecule. This band was examined with high resolution, using a replica grating having 100 lines/mm. This band was found to be double. One reflection maximum, at 1123 cm⁻¹, did not shift at the phase transition, while the other appeared at 1143 cm⁻¹ in the paraelectric phase and at 1157 cm⁻¹ in the ferroelectric phase. The phase shift in reflection was derived with the aid of the dispersion relation, and from this the optical constants were calculated. There was found to be one absorption peak at 1125 cm⁻¹ in both phases and one at 1152 cm⁻¹ in the paraelectric phase, which shifted to 1164 cm⁻¹ in the ferroelectric phase. The relative frequency shift of this absorption peak is equal to that of the higher frequency component of the band observed by Krishnan at 2791 cm⁻¹ in the Raman spectrum and ascribed to stretching vibrations of the N-H bond in the same NH3 (1) group. It is concluded that the symmetry of the field in the vicinity of the NH3 (1) ion changes at the phase transition. The authors thank L.A. Shuvalov of the NH3 (1) ion changes at the phase transition. The authors thank L.A. Shuvalov of the interest and valuable advice. Originart, has: 2 formulas, 1 figure and 1 table.

SUB CODE: SS, OP SUEM DATE: 00/ ORIG. REF: 001 OTH REF: 008

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L 15256-66 EWT(1) LJP(c) ACC NR: AP5027675 SOURCE CODE: UR/0051/65/U19/005/0809/0812
AUTHOR: Zolotarev, V. M.; Kislovskiy, L. D.
ORG: none
TITLE: The feasibility of studying band contours by minimum total internal reflection spectrophotometry
SOURCE: Optika i spektroskopiya, v. 19, no. 5, 1965, 809-812
TOPIC TAGS: absorption spectrum, internal reflection spectrum, band spectrum
ABSTRACT: The authors showed in an earlier paper (Opt. i spektr., 19, 623, 1965) that in the $0.0002 < k < 0.2$ range of the absorption index, the reflectivity $R_{\perp}(k)_{Q}$ for a constant angle of the total internal reflection coincides almost completely with the transmissivity $T(k)_{Q}$ for a given constant optical thickness. The present article investigates theoretically
the shapes of Lorentz absorption band in the spectrum obtained by minimum total internal reflection (MTIR). Calculated MTIR curves are in very good agreement with the corresponding Lorentz shape of bands found in the absorption spectrum. The theoretical curve
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AUTHOR: Distier, G. I.; Kislovskiy, L. D.

ORG: Institute of Orystallography, Moscow (Institut kristallografii)

TITIE: Hyperiine structure of the phase boundary of a pn junction as obtained from electron microscope data

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 600-601

TOPIC TAGS: hyperfine structure, fine structure, pn junction, electron microscopy, crystal surface, surface property, crystal growth, single crystal

ABSTRACT: After pointing out that any phase boundary should possess a fine structure and a hyperfine structure, the authors describe a high-resolution study of the hyperfine structure of the phase boundary of microscopic pn junctions, carried out by means of an electron-microscopic method for determining the electric microrelief of crystalline surfaces, developed at the Institute of Crystallography AN SSSR and described earlier (DAN SSSR v. 165, 329, 1965). The method consists of decorating local stressed microscopic surface regions by means of charged microparticles. The junctions investigated were alternations of microscopic regions with charge impurities of opposite sign, occurring under nonstationary conditions of crystal growing

Card 1/2

L 22895-66 ACC NR: AP6006864 by drawing from the melt. Single crystals grown by the Czochralski method and cut parallel to the growth axis were investigated. The decoration patterns have shown clearly that the structure of the boundary of the layers differs from the structure or the layers themselves, thus demonstrating the existence of a hyperfine structure. Within the layers, microscopic particles have a random distribution, but on the phase boundaries they consist of definite bunchings of decorating microparticles, indicating a regular clustering of the impurity centers on the phase boundary. The clustering exhibits a quasiperiodicity with period 0.2--0.4 µ. Further electron microscopic investigations of phase boundaries with small surface energies are expected to confine the hyperfine structure of these boundaries in both crystalline materials and biological systems. Orig. art. has: 2 figures. SUB CODE: 20/ BUBM DATE: 09Sep65/ ORIG REF: 001/ OTH REF: 005 Card 2/2

ACC NRI AP6033440

SOURCE CODE: UR/0051/66/021/004/0476/0481

AUTHOR: Rudyavskaya, I. G.; Kudryavtseva, A. G.; Kislovskiy, L. D.

ORG: none

TITIE: Transmission of coated silicon in the long wave infrared region of the spectrum

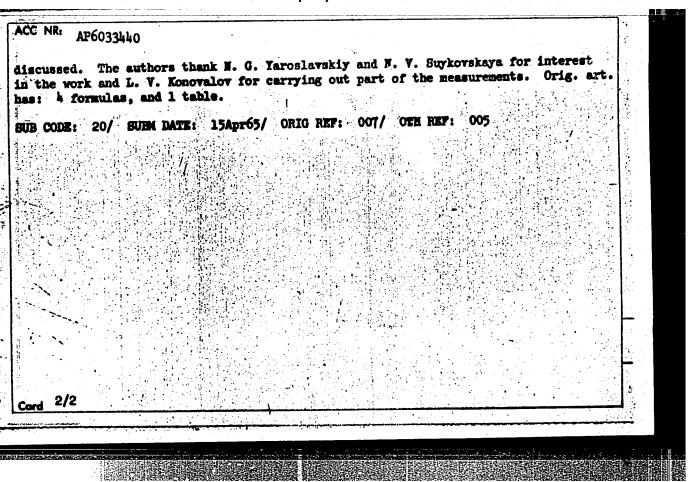
SOURCE: Optika i spektroskopiya, v. 21, no. 4, 1966, 476-481

TOPIC TAGS: silicon, optic coating, ir spectrum, optic transmission

ABSTRACT: The authors have measured in the 20 — 100 nm range the spectra of silicon coated with a layer of silicon dioxide to enhance its transmission. The transmission spectra were measured with a long-focus infrared spectrometer (DIKS-1), with an echelette grating of 6 lines/mm. The filters used to eliminate the extraneous radiation and to reduce the level of the scattered radiation to less than 5% are described. The spectral width of the slit was 1 — 2 nm, and the accuracy with which the transmission was determined was 2 — 3%. Samples of different coating thickness were measured. The results showed that the position of the transmission maximum (x) changed appreciably, from 42 to 90 nm, as the thickness of the coating was varied. The largest attainable transmission was 90%. The optical characteristics of the coating are tabulated, and ways of further improving the coating efficiency are

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UDC: 535.345.1 = 14:546.28 + 535.391.5



"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722820018-1

ACC NR. AP6026691

SOURCE CODE: UR/0181/65/008/008/2401/2404

AUTHOR: Galanov, Ye. K.; Kislovskiy, L. D.

ORG: none

TITLE: Deformation of the SO4 ion triglycine sulfate crystals during phase transition

SOURCE: Fizika tvardogo tela, v. 8, no. 8, 1966, 2401-2404

TOPIC TAGS: IR reflectance, absorption spectrum, IR spectrum, phase transition

ABSTRACT: Infrared reflection and absorption spectra of isomorphic triglycine sulfate single crystals are studied. The resulting spectra are compared with those of a group of alum crystals. In these crystals, just as in the triglycine sulfate crystals, the rigid SO4 ions are weakly perturbed by the crystal lattice. The analysis of the triglycine sulfate IR spectra indicates that the change in the positions and intensities glycine sulfate IR spectra indicates that the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the positions and intensities and intensities during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transition is due to the deformation of the SO4 ion. The pieof bands during phase transities are transition in the properties of the prop

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SOURCE CODE: UR/0020/66/171/005/1092/1095

ACG-NR:

AUTHOR: Ivanov, N. R.; Shuvalov, L. A.; Kislovskiy, L. D.

ORG: Institute of Crystallography, Academy of Sciences SSSR (Institut kristallografii

Akademii nauk SSSR)

TITLE: On the structural mechanism of the electrooptical and thermooptical effects

in ferroelectric crystals of the triglycinsulfate type

SOURCE: AN SSSR. Doklady, v. 171, no. 5, 1966, 1092-1095

TOPIC TACS: electrooptic effect, ion, ferroelectric material, glycine, sulfate,

crystallography

ABSTRACT:

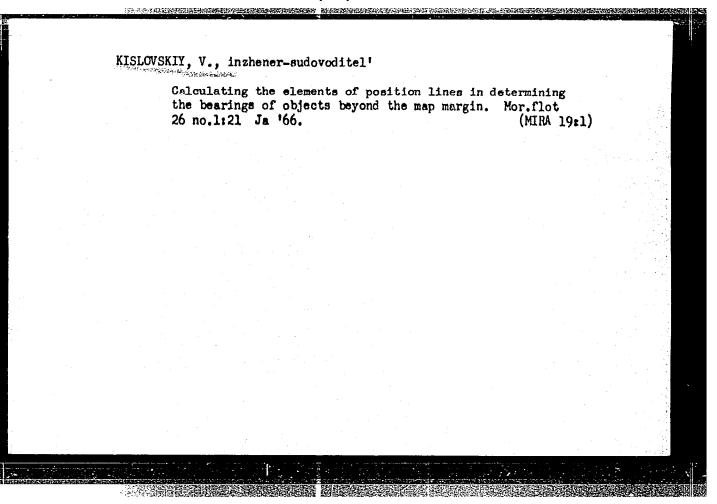
Theoretical and experimental investigations were made of the important part played by the deformation of SO, 2- or SeO, 2- ions in the occurrence of spontaneous polarization in monoclinic triglycinsulfate or triglycinselenate crystals. The deformation resulting from the displacement of

nitrogen atoms can be measured by directional changes of the maximum polarizability, i.e., by shifts of the indicatrix of the crystal. Measurements were performed of the shifts of the optical indicatrix in the para-

electric phase at a temperature close to the melting temperature of the crystals. These shifts showed up as breaks on the \$ (T) dependence curves, which are explained as indicating the presence in both crystals of

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KISLOVSKOY, Sergey Vladimirovich; SLOBOZHAN, I.I., red.; ONOSHKO, N.G., tekhn.red.

[History and regional study of Boksitogorsk] Boksitogorsk; istoriko-krasvedcheskii ocherk. Leningrad, Lenizdat, 1960.
134 p. (MIRA 13:11)

(Boksitogorsk)

KISLOVSKOY, SERGEY VLADIMIROVICH

Boksitogorsk; Istoriko-krayevedcheskiy ocherk. Leningrad, Lenizdat, 1960.

134 [1] p. Illus., Ports. (Goroda Lemingradskoy Oblasti)

Bibliography: p. 134- [135]

EWI(I)AP6028154 SOURCE CODE: UR/0307/66/000/002/0096/0102 AUTHOR: Smirnov, L. Ye.; Kislovskoy, V. S. ORG: none TITLE: Topographic interpretation of aerial color photographs printed on different types of paper SOURCE: Leningrad. Universitet. Vestnik. Seriya geologii i geografii, no. 2, 1966, 96-102 TOPIC TAGS: topography, color photo interpretation, photographic material, paper, aerial photograph ABSTRACT: The authors compare the interpretability of a large variety of 1:10,000 and 1:17,000 spectrozonal aerial photographs of diversified terrains, printed on SB-2 two-layer color spectrozonal paper, on F-1 and F-2 three-layer color paper, on Czech Fomacolor paper, and on U. S. Kodak and Unibrom paper, using additive and subtractive printing techniques. The terrains were in the Central Siberian taiga zone and in the forest zone of the North-West European Soviet Union and covered populated localities and isolated buildings; communication and pipe lines; railways and roads; brooks, canals, rivers, beaches and lakes; 1/2 Card

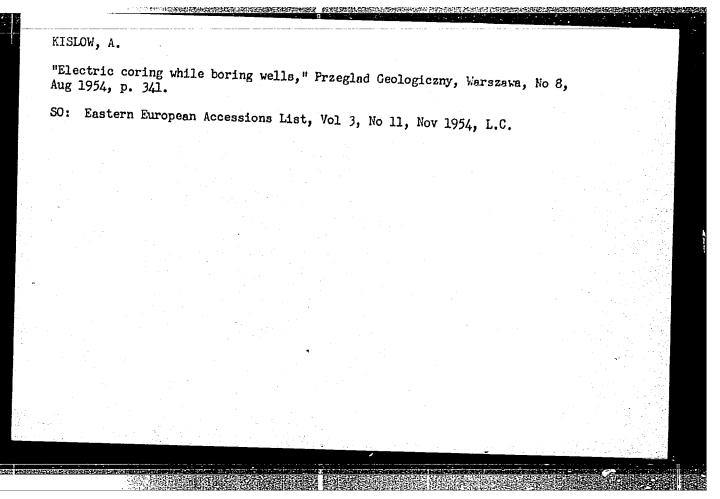
B CODE: 14/ SUBM DATE: 01Oct65/ ORIG REF: 004	V-2m, SN-5 and Topes for interpretormatsii. V sb.	ords, bridges, ravines and precipices; roconal surfaces; pine, fir, birch, and larch and individual trees; meadows, reed thicker ISN-3 films were used for photographs, metation, and the Kharkevich formula (A. A. Problemy kibernetiki", vyp. 4. M., F. luation. Better interpretation results were paper. Orig. art. has: 1 formula, 4 tab	ts, and plowed fields. Sinagnifying glasses and standard Kharkevich. O tsennos izmatgiz, 1960) for photore achieved with SN-2m ides, and 1 figure.	edar N-2, e re o-
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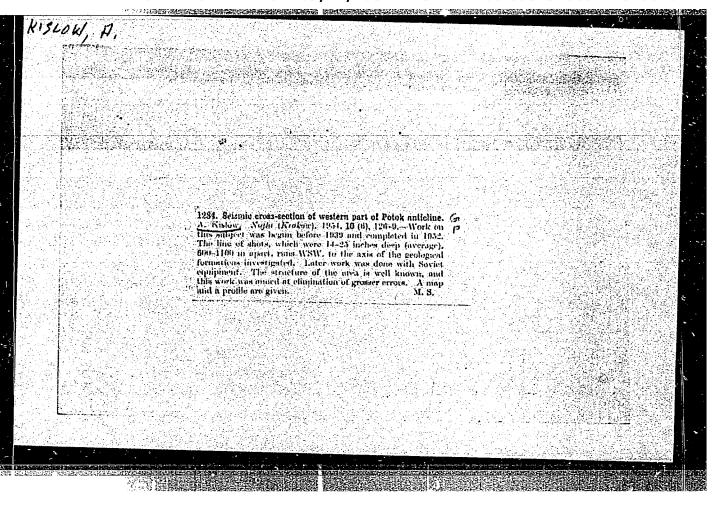
KISLOW, A.

"Electrical methods in research," Przeglad Geologiczny, Warszawa, No 5,
May 1954, p. 169.

SO: Eastern European Accessions List, Vol 3, No 11, Nov 1954, L.C.

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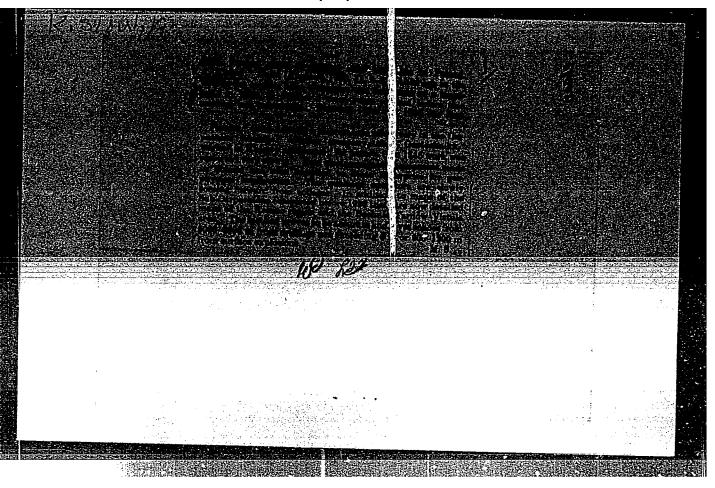


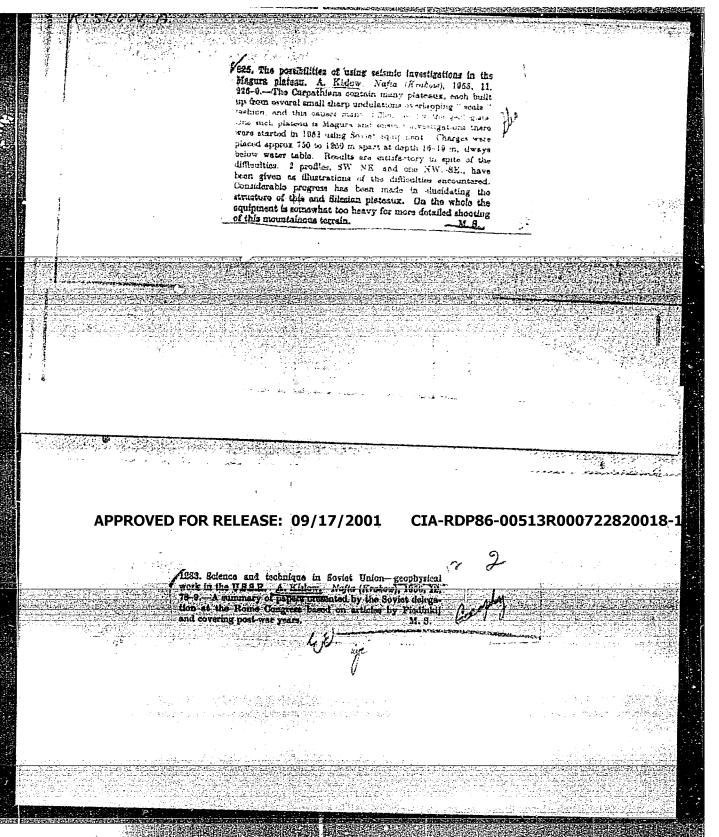


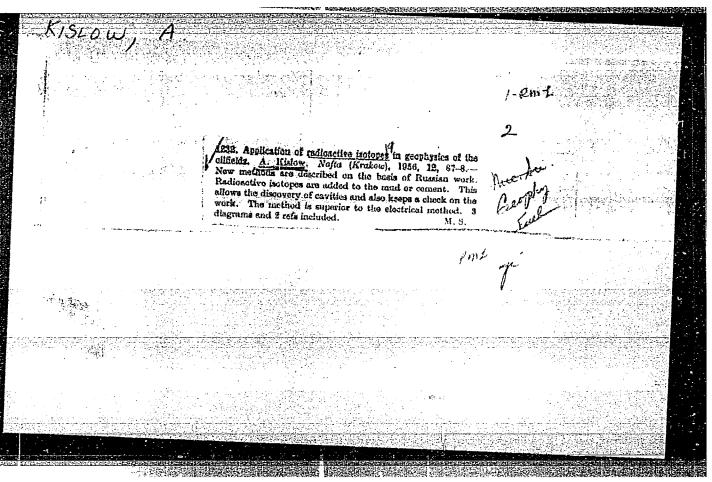
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SO: Monthly List of East European Accessions (EEAL), LC, Vol. 4, No. 3, March 1955, Uncl.

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Geophysical prospecting and the petroleum industry in the 6-Year Plan and its future development. p. 17. (Nafta, Vol. 13, No. 1, Jan 1957, Krakow, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

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PERIODICAL: PREZGLAD GEOLOGICZNY. Vol. 6, no. 4, April 1953.

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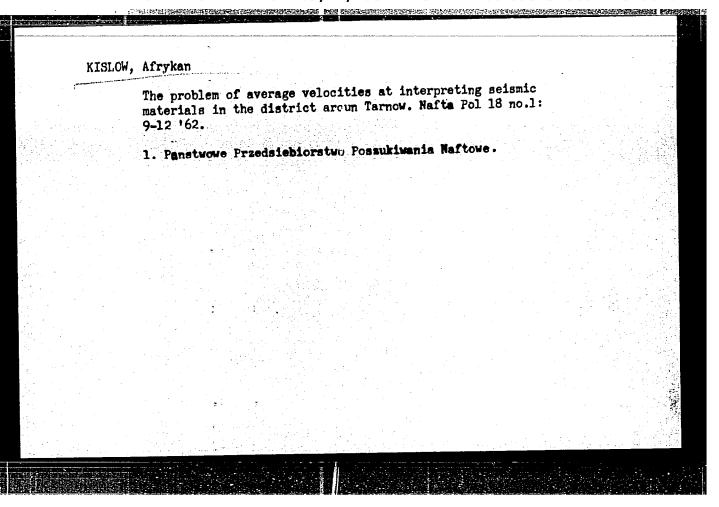
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KISLOW, A.

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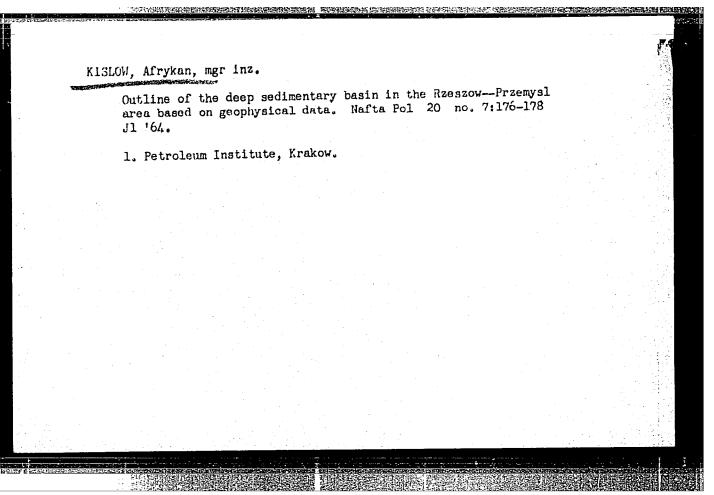


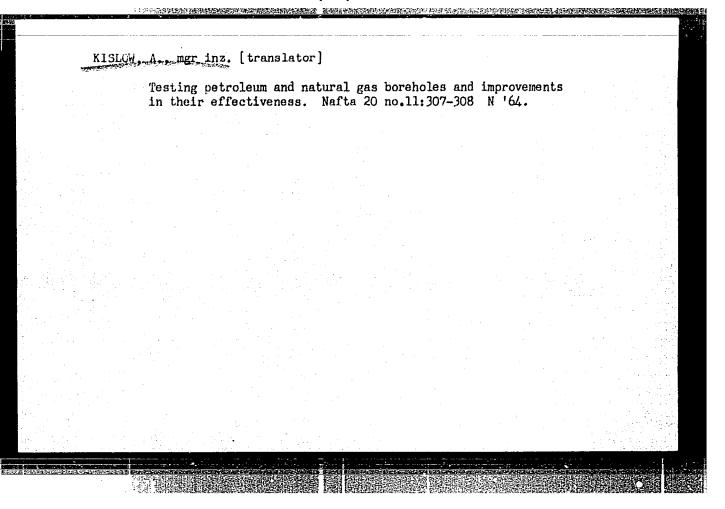
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Outlines of the tectonic structure of the base of the Miccene of the Tarnograd-Lubaczow region as based on seismic data.

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1. Instytut Naftowy, Krakow.





GOSSE, N.P., inan.; KISLUKHIN, S.V., inzh.; NIKOL'SKIY, G.A., inzh.;
POPOV, G.S., inzh.; SHAKHOVTSEV, V.I., nauchnyy red.; VAGNER, A.A.,
red.; RUNOVA, A.P., red.; KOVAL'SKAYA, I.F., tekhn. red.; VINOGRADOV,
Ye.A., tekhn. red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Electric equipment and devices of motor vehicles; catalog and reference book] Avtotraktornoe elektro-oborudovanie i pribory; katalog-spravochnik. Moskva, TSentr.in-t nauchno-tekhn.informatsii mashinostroeniia. Pt.1. 1961. 371 p. (MIRA 14:12)

1. Russia (1923— U.S.S.R.) Gosudarstvennyy komitet po koordinatsii nauchno-issledovatel'skikh rabot. 2. Nauchno-issledovatel'skiy eksperimental'nyy institut avtotraktornogo elektrooborudovaniya i priborov (for Gosse, Kislukhin, Nikol'skiy, Popov). 3. Direktor Nauchno-issledovatel'skogo eksperimental'nogo instituta avtotraktornogo elektrooborudovaniya i priborov (for Shakhovtsev).

(Nator vehicles—Electric equipment)

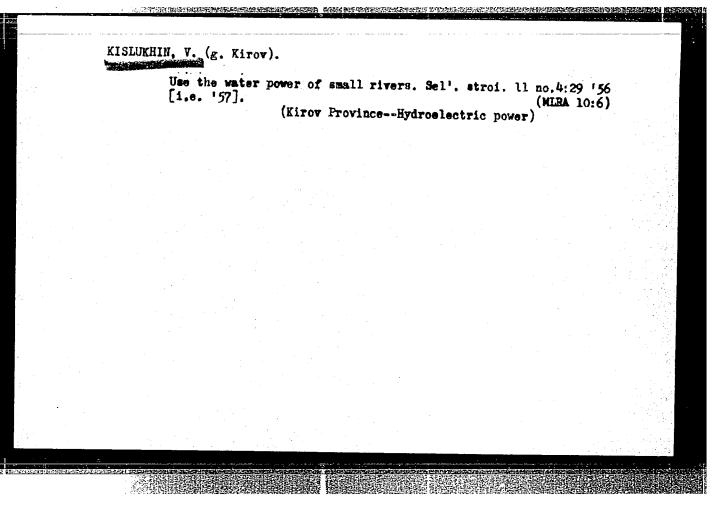
GOSSE, N.P., inzh.; KISLUKHIN, S.V., inzh.; NIKOL'SKIY, G.A., inzh.; POPOV, G.S., inzh.; SHAKHOVTSEV, V.I., nauchmyy red.; RUNOVA, A.P., red.; VAGNER, A.A., red.; ALEKSEYEVA, T.V., tekhn. red.

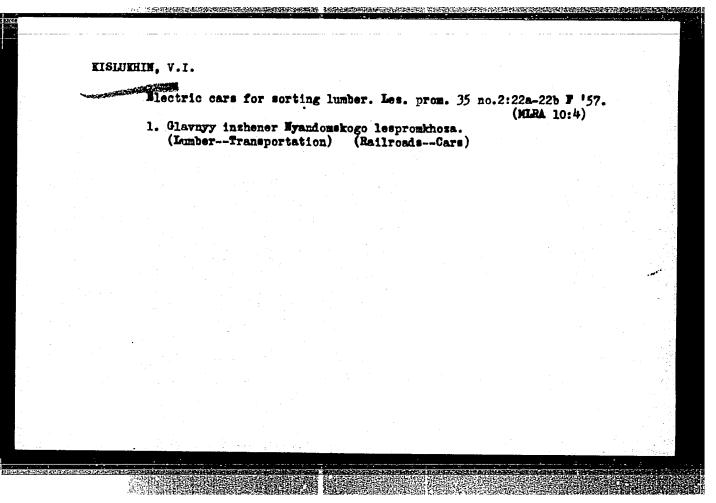
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1. Russia (1923- U.S.S.R.)Gosudarstvennyy komitet po koordinatsii nauchno-issledovatel'skikh rabot. 2. Nauchno-issledovatel'skiy eksperimental'nyy institut avtotraktornogo elektrooborudovaniya i priborov (for Gosse, Kislukhin, Nikol'skiy, Popov).

(Tractors--Electric equipment)

(Automobiles--Electric equipment)

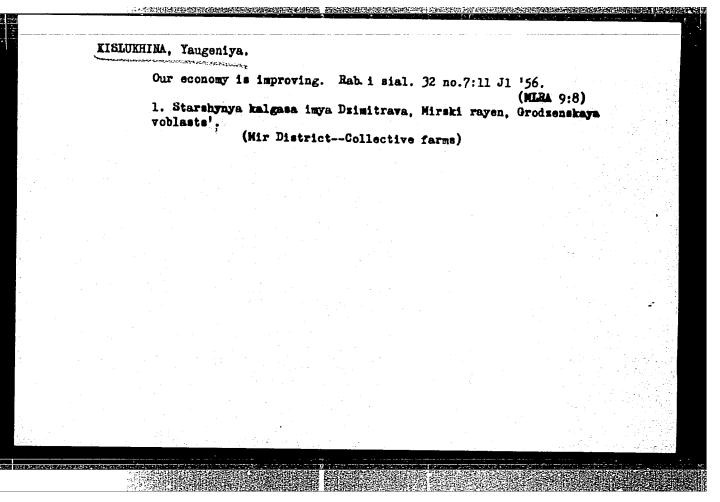


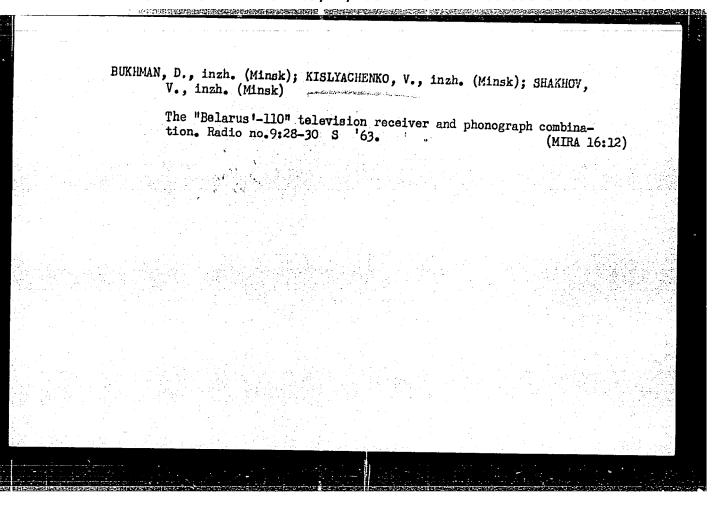


。 一个一个,我们是这种人们可以被继续的,就是这种人的,就是这种人的,就是这种人的,就是这种人的,不是这种人,也是这种人,也是不是一个一个一个一个一个一个一个一个一个

Production of high-purity amylase preparations from the submerged cultures of Bacillus subtilis. Frikl. biokhim. i mikroblol. 1 no.3: 278-284 My-Je '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovateliskiy institut fermentnoy i spirtovoy promyshlennosti, Moskva.





29062

S/179/61/000/004/004/019 E031/E135

10.1210

Kislyagin, N.N. (Moscow)

AUTHOR:

Rotational derivatives for the downwash of a wing

in unsteady motion

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye

tekhnicheskikh nauk. Mekhanika i mashinostroyeniye,

No. 4, 1961, pp. 20-25

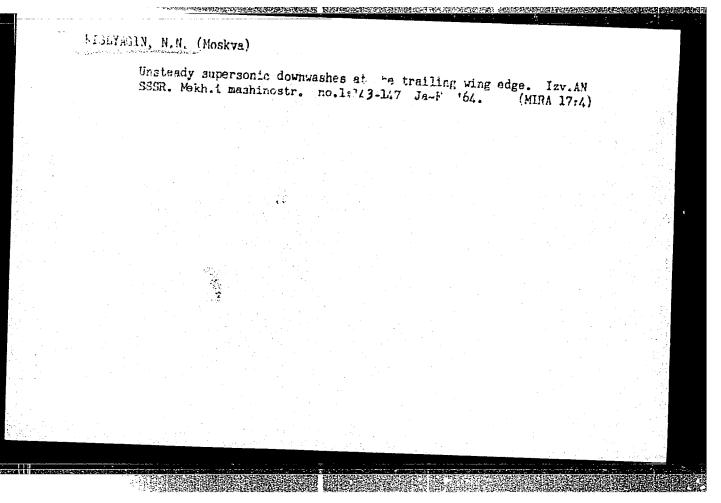
TEXT: A wing and tailplane configuration which is deforming is considered. Linear theory is applied, the aerodynamic characteristics of the lifting surface being represented by rotational derivatives. The medium is ideal and without vortices. There are no external forces. The concept of rotational derivatives for the region of the downwash is introduced. The wing is replaced by a vortex sheet; it is assumed that the intensity of the vortices may vary with the time, and that the velocity of the downwash of the free vortices is constant in magnitude and direction, the vortex strip being situated in the plane of the wing. In unsteady motion the vortex strip behind the wing is represented by two systems of free vortices; one with axes parallel to the Card 1/3

29062

Rotational derivatives for the \$/179/61/000/004/004/019 E031/E135

free stream and the other with axes perpendicular to it, simplify the calculations it is assumed that the downwash is constant across the span and in the antisymmetric case it varies linearly across the span of the tailplane. Expressions for the derivatives of the wing-tailplane configuration are obtained from a knowledge of the rotational force and moment derivatives for the isolated wing and tail. To determine the rotational derivatives of the downwash caused by a wing of finite dimensions at subscnic velocities, the wing is replaced by a system of horse-shoe vortices distributed over the span and chord. The intensity varies harmonically with time. The effect on the tail of the disturbed flow is equivalent to a change in the intensities of the attached vortices. Knowing the changes, it is easy to calculate the rotational force and moment derivatives for the tail, taking account of the downwash created by the wing. Downwash derivatives for rigid triangular, rectangular and two swept wings at small velocities are presented graphically; the results compare favourably with experiment on models.

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ACCESSION NR: AP4018434

8/0179/64/000/001/0143/0147

AUTHOR: Kislyagin, N.N. (Moscow)

TITLE: Unsteady supersonic downdraft at the trailing edges of an airfoil

SOURCE: AN SSSR. Izv. Otd. tekh. nauk. Mekhanika i mashinostroyeniye, no. 1, 1964,

TOPIC TAGS: supersonic flow, jet plane, airfoil design, airfoil, aerodynamics, rectangular airfoil, delta airfoil, delta wing

ABSTRACT: Formulas are given for calculating the coefficients of the rotational derivatives of the downdraft directly behind the trailing edges of harmonically oscillating rectangular and delta wings. A slightly bent, thin airfoil of arbitrary shape at small angle of attack is first considered. The forward motion of the wing is considered to be rectilinear at constant velocity. It is also considered that the airfoil surface may be deflected. A formula is given for the velocities appearing at the airfoil. Equations are then derived for the density and velocity of development of the surface of discontinuity, and formulas for the coefficients of the rotational derivatives are obtained by transformations. The equations derived make possible the calculation of the changes in the components of the perturbation

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velocity when passing through the supersonic part at the trailing edge of the airfoil, as well as at points along the edge. Equations for the coefficients of the rotational derivatives of a rectangular airfoil are then evolved. Finally, equations are derived for a delta wing with supersonic leading edges. The analytical results obtained agree with the results obtained by other methods. Orig. art. has: 9 figures and 18 formulas.

ASSOCIATION: none

SUBMITTED: 31May63 ENCL: 00 SUB CODE: ME

NO REF SOV: 006 OTHER: 001

AU THOR:

Kislyak, G.M.

SOV/51-5-3-12/21

TITLE:

On the Dependence of the Excited-State Lifetime of Organic Phosphors on the Exciting Light Wavelength (O zavisimosti vrameni zhizni vosbushdennogo sostoyaniya organolyuminoforov et dliny volny vozbushdayushchego sveta)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 3, pp 297-301 (USSR)

ABSTRACT:

The author studied the effect of the excitation wavelength on the excited-state lifetime and the phosphorescence spectrum of organic dyea in various solvents. The effect of the dye concentration on the decay law and duration of phosphorescence in the anti-Stokes region was also investigated. Solutions of trypaflavine (in acetic acid, acetone, glycerin, methyl, iscamyl, ethyl and n-tutyl alcohols), fluorescein (in boric, sulphuric, formic and acetic acids, methyl and acidified ethyl alcohols), and rivanol (in ethyl alcohol) were used. All measurements were made at the liquid-oxygen temperature, and for fluorescein in boric acid they were made also at room temperature. Some of the results are given in Fig 1, which shows the dependence of the excited-state lifetime 7 on the excitation wavelength.

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On the Dependence of the Excited-State Lifetime of Organic Phosphore on the Exciting Light Wavelength

Fig 1 deals with six solutions; similar results were obtained for the other phesphors. Fig 2 gives the absorption (curve 1) and luminescence (curve 2) spectra of trypaflavine in acetic acid. Comparison of Figs 1 and 2 shows that the excited-state lifetime begins to decrease at wavelengths which correspond to the beginning of the anti-Stokes region i.e. the beginning of the short-wavelength part of the buminescence spectrum. The fall of the excited-state lifetime of phosphorescence which occurs when the phosphor is excited in the anti-Stokes region suggests that the probability of the transition of a molecule from a metastable to a normal state increases. The excitedstate lifetime of fluorescein in sulphuric acid in the anti-Stokes region was found to increase alightly, after the initial fall, and then to remain constant (Fig 1, curre 3). Such a variation of the excited-state lifetime may be due to an additional phosphorescence maximum, which is shown at 585-590 mp in Fig 3. Fig 3 gives the phosphorescence spectrum of fluorescein in sulphuric acid, and the three types of dots used represent excitation produced by means of three different light filters. The results seem to show that the

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On the Dependence of the Excited-State Lifetime of Organic Phosphors on the

phosphorescence spectrum does not depend on the excitation wavelength. These results are not, however, very reliable since excitation was not monochromatic and each of the three filters used (UFS-2, SS-5, SZS-3) transmits a band and not a line. It was found that the dye concentration in solution does not affect the dependence of the excited-state lifetime on the excitation wavelength. There are 3 figures and 13 references, 11 of which are Soviet.

ASSOCIATION: Poltavskiy pedagogicheskiy institut (Poltava Pedagogical Institute)

SUMMITTED: October 10, 1957

Card 3/3 1. Phosphors--Excitation properties 2. Phosphors--Properties 3. Phosphorescence--Life expectancy 4. Dyes--Spectra

AUTHOR:

Kislyak, G.M.

SOV/51-6-2-15/39

TITLE:

On the Phosphorescence Decay Law of Trypaflavine in Formic Acid (O zakone zatukhaniya fosforestsentsii tripaflavina v muravinoy kislote)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 2, pp 226-228 (USSR)

ABS TRACT:

The author found (Ref 2) that the excited-state lifetimes of certain organic dyes (trypaflavine, fluorescein, rivanol) in various solvents depend on the exciting light wavelength in the anti-Stokes region but are independent of wavelength in the Stokes region. In all solutions, except that of trypaflavine in formic acid, decay is exponential. The decay law of trypaflavine in formic acid was found to be complex and the rate of decay dependent on the exciting light wavelength both in the Stokes and the anti-Stokes region. The present paper describes studies of the phosphorescence decay law of trypaflavine in formic acid and the effect of this acid on the absorption spectra of solutions of trypaflavine in water. The apparatus used to measure the decay curves was similar to that described earlier by the author (Ref 2). Trypaflavine in S5, 50, 25, 10 and 5% aqueous solutions of formic acid was studied. The absorption spectra were measured only for the 85% formic acid solution. It was found that addition of formic acid to aqueous

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On the Phosphorescence Decay Law of Trypaflavine in Formic Acid

SOV/51-6-2-15/39

solutions of trypaflavine produces marked changes in the absorption spectrum. Fig 1 (curve I) shows that the absorption spectrum of formic acid solutions is displaced towards shorter wavelengths, is more diffuse and the main absorption maximum lies at 400-405 mu. In the long-wavelength region of the spectrum the characteristic sharp fall of absorption, normally observed for the three dyes, is absent and a second maximum near 448-450 µ is observed. The two maxima suggest that there are two modifications of the dye in solution: trypaflavine in water and trypaflavine in formic acid. The changes in the absorption spectrum of trypaflavine on addition of formic acid may be due to the effect of the acid on electron levels of the dye molecules, or due to chemical reactions of the acid with the dys. Experiments carried out do not indicate clearly which of the two mechanisms is responsible for the observed changes in the absorption spectrum. Decay of phosphorescence of trypaflavine in aqueous formic acid solutions may be represented by two exponentials, with excited-state lifetimes of 0.2 and 0.95 sec. The complex phosphorescence decay law is observed (under ultraviolet excitation) down to 5% formic acid solutions and the decay constants have practically the same values for solutions from 85 to 5%. The two values of the excited-state lifetimes are ascribed to two modifications

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 On the Phosphorescence Decay Law of Trypaflavine in Formic Acid SOV/51-6-2-15/39

of the dye: trypaflavine in water and trypaflavine in formic acid. The author studied also the effect of formic acid concentrations on the dependence of the excited-state lifetime ton the wavelength of exciting light. The results obtained are given in Fig 3, which shows a marked change with decrease of formic acid concentration from 85% to 10%. For 10% solutions the t-l curve is of the same form as for trypaflavine in other solvents and the phospherescence decay law is exponential again. This indicates that at low formic acid concentrations one of the two types of emission centres disappears. The author concludes that trypaflavine itself has only one type of centre responsible for long-duration emission, but two types of centres are present in formic acid solutions. Acknowledgements are made to N.A. Lebedev who directed this work. There are 3 figures and 3 Soviet references.

SUBMITTED: February 22, 1958

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24(7) AUTHOR:

Kislyak, G. M.

507/48-23-1-26/36

TITLE:

On the Dependence of the Life-Time of the Excited State of Organoluminophores on the Wave Length of the Exciting Light.II (O zavisimosti vremeni zhizni vozbuzhdennogo sostoyaniya organolyuminoforov ot dliny volny vozbuzhdayushchego sveta.II)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Nr 1, pp 119 - 121 (USSR)

ABSTRACT:

In this paper the influence exercised by the wave length of the exciting light on the law of extinction and the duration of the fluorescence of organic pigments is investigated. Investigations were carried out of trypaflavin in various alcoholic solutions, acetone, glycerin, acetic- and formic acid, fluorescein in various alcohols, sulfuric-, acetic- and boric acid, and of rivanol in ethyl alcohol. The investigations were carried out at the temperature of liquid oxygen, those of fluorescein in boric acid also at room temperature. Measurements of the life time T of the excited state and of phosphorescence were begun after freezing the solution for half an hour in liquid oxygen. The following is shown by figures: The de-

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On the Dependence of the Life-Time of the Excited State of SOV/48-23-1-26/36 Organoluminophores on the Wave Length of the Exciting Light.II

pendence of fluorescence duration on the wave length of the exciting light for the three aforementioned substances in alcoholic solutions (Fig 1), the absorption- and luminescence spectra and the dependence of τ on the wave length of the exciting light for trypaflavin in isoamyl alcohol (Fig 2), and the dependence of τ_1 on the wave length of the exciting light for trypaflavin in a 85% formic acid (Fig 3). Figure 1 shows that the duration of phosphorescence remains constant up to a certain wave length, after which it decreases. This wave length differs with various substances and with various solvents. An exception is formed by trypaflavin in a 85% formic acid (Fig 3), in which case the duration of phosphorescence at first increases with an increase of the wave length, after which, like in the other cases mentioned, it diminishes at the beginning of the anti-stokes domain. There are 3 figures and 6 Soviet references.

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