ADYNOWSKA, Sylwia; PRZETAKIEWICZ, Zbigniew

A case of stab wound of the heart treated operatively. Pol. przegl. radiol. 29 no.2:151-154 Mr-Ap '65

1. Z Zakładu Radiologii Akademii Medycznej w Warszawie (Kierownik: prof. L. Zgliczynski) i z I Kliniki Chirurgicznej Akademii Medycznej w Warszawie (Kierownik: prof. J. Nielubowicz).

SZCZERBAN, Jerzy; WYSZNACKA, Wanda; WEGRZYN, Barbara; WASOWSKA, Teresa; IGNATOWSKA, Hanna; ADYNOWSKA, Sylwia

Portal vein catheterization in the diagnosis of portal hypertension. Pol. tyg. lek. 20 no.21:747-749 24 My '65.

1. Z I Kliniki Chirurgicznej AM w Warszawie (Kierownik: prof. dr. med. J. Nielubowicz), z II Kliniki Chorob Wewnetrznych AM w Warszawie (Kierownik: prof. dr. med. D. Aleksandrow) i z Zakladu Radiologii Lekarskej AM w Warszawie (Kierownik: prof. dr. med. L. Zgliczynski).

ADYRKHAYEV, A.G.

Results of treating valvular diseases of the heart at the Shchichinskiy health resort. Trudy Inst. Kraev. pat. AN Kazakh SSR 5:61-73 '57. (MIRA 11:2)

(HEART--VALVES--DISEASES)
(SHCHUCHINSK DISTRICT--THERAPEUTICS, PHYSIOLOGICAL)

ADYRKHAEV, A.G.

Cardiac changes in patients with heart valve defects and cardiosclerosis unde the influence of walking therapy as indicated by electrocardiography. Trudy Inst. kraev.pat. AN Kazakh. SSR 7:121-130 '59.
(MIRA 13:3)

(HEART--DISEASES) (WALKING--THERAPEUTIC USE) (ELECTROCARDIOGRAPHY)

ATCHABAROV, B.A.; SABDENOVA, Sh.S.; ADYRKHAYEV, A.G.

Capillaries in patients with lead intoxication. Trudy Inst. krnev. pat. AN Kazakh. SSR 8:167-173 '60. (MIRA 14:5)
(CAPILLARIES) (LEAD POISONING)

ADYRKHAYEV, A.G.

Need for sanatorium and health-resort treatment of patients with diseases of the cardiovascular system in the Kazakh S.S.R. Izv. AN Kazakh. SSR. Ser. med. i fiziol. no.2:36-40 '61. (MIRA 15:4)
(KAZAKHSTAN--CARDIOVASCULAR SYSTEM--DISEASES)
(HEALTH RESORTS, WATERING--PLACES, ETC.)

ADYRKHAYEV, A.G.

Role of artificial radon baths in evaluation of the effectiveness of resort treatment in heart defects. Zdrav. Kazakh. 22 no.8:25-28 '62 (MIRA 17:4)

1. Iz otdela kurortoterapii Instituta krayevoy patologii (dir. - kand. med. nauk B.A. Atchabarov) AN Kazakhskoy SSR.

ADYRKHAYEV, A.G.; BEGLOVA, T.G.

Condition of the heart in patients with latent and chronic forms of brucellosis. Trudy Inst.kraev.pat.AN Kazakh SSR 12:149-155 '62. (MIRA 15:11)

(ELECTROCARDIOGRAPHY) (BRUCELLOSIS)

ADYRKHAYEV, A. Kh.

ADYRKHAYEV, A. Kh.: "Clinical testing of apressin in the treatment of patients with hypertonic disease." First Moscow Order of Lenin Medical Inst imeni I. M. Sechenov. Moscow, 1956. (DISSERTATION FOR THE DEGREE OF CANDIDATE IN SCIENCES).

Knizhnaya letopis',
NO. 25, 1956. Moscow.

ADYRKHAYEV, A.Kh.

Treatment of rheumatoid arthritis at balneological health resorts in North Ossetia. Sov. med. 28 no.8:85-91 Ag '65. (MIRA 18:9)

1. Kafedra obshchey terapii Severo-Osetinskogo meditsinskogo instituta (nauchnyy rukovoditel' - prof. Ye.M.Tareyev), Ordzhonikidze.

NASONOVA, V.A.,; ADYRKHAYEV, A.Kh.

Disseminated vasculitis in the treatment of hypertension with apressine. Sov. med. 20 no.3:41-45 Mr. '56 (MLRA 9:6)

1. Iz kafedry obshchey i gospital'noy terapii (zav.-deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR prof. Ye.M. Tareyev) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(HYPERTENSION, therapy,
hydrazine phthalazine apresoline causing diffuse vasculities (Rus))
(VASCULAR DISEASES, PERIPHERAL, etiology and pathogenesis,
vasculitis caused by hydrazine phthalazine apresoline in ther. of hypertension (Rus))
(SYMPATHOLYTICS, injurious effects,
hydrazine phthalazine apresoline causing vasculitis in ther. of hypertension (Rus))

ADYRKHAYEV, A.Kh.

Treatment of hypertension with apresoline and ganglion-blocking agents. Sov.med. 21 no.5:52-60 My '57. (MLRA 10:7)

1. Iz kafedry obshchey i gospital'noy terapii (zav. - deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR prof. Ye.M.Tareyev) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(HYDRALAZINE, ther. use
hypertension & ganglion-blocking agents)
(AUTONOMIC DRUGS, ther. use
ganglion-blocking agents in hypertension, with hydralazine)
(HYPERTENSION, ther.
ganglion-blocking agents & hydralazine)

ADYROV, P. V.

Cand Tech Sci - (diss) "Study of fields of friction forces in exhaust devices." Moscow, 1961. 18 pp;(Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Textile Inst); 150 copies; free; (KL, 6-61 sup, 212)

ADYSHEV, M.M.; KAIMUKAYEV, K.Ye.

Sedimentary-diagenetic origin of uranium mineralization in coal-silica-schist formation. Geol.rud.mestorozh. 7 no.4:16-25 Jl-Ag '65. (MIRA 18:8)

TUROVSKIY, S.D.; ALYSHEV, M.M., otv.red.; LEVITUS, B.I., red.izd-va; ANOKHINA, M.G., tekhn.red.

[Method and possibilities of the study of accessory minerals and chemical elements in igneous rocks] O metodike i znachenii izucheniia aktsessornykh mineralov i khimicheskikh elementov izverzhennykh gornykh porod. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR, 1960. 58 p. (MIRA 13:12)
(Rocks, Igneous)

ADYSHEV, M.M.; MALMURZAYEV, K.Ye.; KOROLEV, V.G.

Stratigraphy of Cambrian and Ordovician sediments in the Sarydzhaz region (central Tien Shan). Mat. po geol. Tian'-Shania no.3:49-63 '62. (MIRA 16:7)

(Tien Shan--Geology, Stratigraphic)

ADYSHEV, M.M.; SHABALIN, V.V.; KALMURZAYEV, K.Ye.

Dispersed elements in Cambrian sediments of the Dzhetym-Tau (central Tien Shan). Dokl. AN SSSR 151 no.2:422-425 Jl '63. (MIRA 16:7)

1. Institut geologii AN Kirgizskoy SSR. Predstavleno akademikom N.M.Strakhovym.

(Dzhetym-Tau--Trace elements)

ADYSHEV, M.M., otv. red.

[Materials on the lithology, geochemistry, and mineralization of sedimentary formations in the Tien Shan] Materialy po litologii, geokhimii i orudeneniiu osadochnykh tolshch Tian'-Shania. Frunze, Izd-vo AN Kirg.SSR, 1963. 115 p.
(MIRA 17:6)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Institut geologii.

ADYSHEV, M.M., otv. red.

[Problems of the Pre-Cambrian and Lower Paleozoic stratigraphy of Kirghizia] Voprosy stratigrafii dokembriia i nizhnego paleozoia Kirgizii. Frunze, Izd-vo AN Kirg.SSR 1964. 78 p. (MIRA 17:6)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Institut geologii.

ADYSHEV, M.M., akademik

Stratigraphic position of a vanad[illegible]g carbonaceous-siliceous-sc[illegible]istose formation [illegible] the Tien Shan. Dokl. AN SSSR 156 n[illegible]3:543-546 '64. (MIRA 17:5)

1. Institut geologii AN KirgSSSR; AN KirgSSSR.

ADYSHEV, M.M., akademik, glav. red.; KOROLEV, V.G., zam. glav. red.; BAYBULATOV, E.B., red. BURYKHIN, I.V., red.; GRIGORENKO, P.G., red.; DAVLETOV, I.D., red.; KONYUK, A.A., red.; POPOV, V.M., akademik, red.; SURGAY, V.T., red.

[Tectonics of the western regions of the northern Tien Shan] Tektonika zapadnykh raionov Severnogo Tian'-Shania. Frunze, "Ilim," 1964. 143 p. (MIRA 17:8)

1. Akademiya nauk Kirgizskoy SSR Frunze. Institut geologii.
2. Akademiya nauk Kirgizskoy SSR (for Adyshev, Popov).

KOROLEV, V.G., otv. red.; ADYSHEV, M.M., akademik, glav. red.; BAYBULATOV, B.B., red.; BURYKHIN, I.V., akademik, red.; GRIGORENKO, P.G., red.; DAVLETOV, I.D., red.; KONYUK, A.A., red.; POPOV, V.M., akademik, red.; SURGAY, V.T., red.

[Materials on the geology of ore deposits in the Tien Shan] Materialy po geologii rudnykh mestorozhdenii Tian-Shania. Frunze, Izd-vo "Ilim," 1964. 140 p. (MIRA 17:8)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Institut geologii.
2. Akademiya nauk Kirgizskoy SSR (for Adyshev, Popov).
3. Institut geologii AN Kirgizskoy SSR (for all).

ADYSHEVA, M.M.

Materials on the helminths of rodents in the Parkent Preserve. Uzb. biol. zhur. 7 no.6:25-28 '63. (MIRA 17:6)

1. Institut zoologii i parazitologii AN UzSSR.

SULTANOV, M.A.; SARYMSAKOV, F.S.; ADYSHEVA, M.M.

Helminths of domestic waterfowl of the Kara-Kalpak A.S.S.R. and the seasonal dynamics of basic helminthiases. Uzb. biol. zhur. 7 no.6:32-35 '63. (MIRA 17:6)

1. Institut zoologii i parazitologii AN UzSSR.

ADYSHIRIN-ZADE, E.A.

[Innervation of the extrahepatic bile-ducts] Innervatsiia vnepechenochnykh zhelchnykh protokov. Kuibyshev, 1955. 14 p.
(BILE DUCTS--INNERVATION) (MIRA 11:4)

ADYSHIRIN-ZADE, E. A.

ADYSHIRIN-ZADE, E. A. -- "Innervation of the Extra-Hepatic Gastric Ducts." Kuybyshev State Medical Inst. Kuybyshev, 1955. (Dissertation for the Degree of Candidate of Medical Sciences.)

SO: Knizhnaya letopis', No. 4, Moscow, 1956

ADYSHIRIN-ZADE, E.A., kand.med.nauk (Kuybyshev (oblastnoy), ul. Polevaya, d.67)

Correlation between the nerves of the biliary tract and the duodenum. [with summary in English]. Vest.khir. 80 no.5:21-26 My '58 (MIRA 11:7)

1. Iz kafedry operativnoy khirurgii (zav. - prof. A.N. Askalonov) Kuybyshevskogo meditsinskogo instituta.

(BILIARY TRACT, innervation,
relation to duodenal nerves (Rus))
(DUODENUM, innervation,
relation to biliary nerves (Rus))

ADYSHIRIN-ZADE, E.A., dotsent

Innervation of the intraorganic bile ducts. Trudy Kuib.med.inst. 11:192-196 '60. (MIRA 15:8)

1. Iz kafedry operativnoy khirurgii (zav. - prof. I.N.Askalonov) i iz kafedry normal'noy anatomii (zav. - prof. F.P.Markizov) Kuybyshevskogo meditsinskogo instituta.
(BILE DUCTS--INNERVATION)

ROKITSKAYA, L.V., dotsent; ADYSHIRIN-ZADE, R.F.

Treatment of complicated myopia and pigmentary degeneration of the retina with intermedine. Oft. zhur. 16 no.5:281-283 Je '61.
(MIRA 14:10)

1. Iz glaznoy kliniki (dir. - prof. T.I.Yeroshevskiy) Kuybyshevskogo meditsinskogo instituta.
(MYOPIA) (RETINA--DISEASES) (INTERMEDIN)

ADZHEMYAN, V.G.; AVAKYAN, V.A.; MANUKYAN, V.S.

Grinding heads for lathes. Stan. i instr. 36 no.4:28-29 Ap '65. (MIRA 18:5)

S/051/62/012/002/009/020
E202/E192

24.3600

AUTHORS: Samson, A.M., and Adzerikho, K.S.

TITLE: Vector-parametric method in the investigation of polarised luminescence

PERIODICAL: Optika i spektroskopiya, v.12, no.2, 1962, 239-247

TEXT: Vector parametric method originally developed by Stokes and capable of simultaneous accounting for all the basic parameters of radiation propagation, e.g. intensity, degree of polarisation, position of plane of polarisation etc., and applicable also to complex phenomena involving secondary absorption and emission processes, was applied to the study of polarisation of the luminescence. As a model of the investigated substance, the authors selected a set of linear oscillators with a random distribution - a condition fully justified by experimentation. The transformation matrix of Stokes parameters was found for the case of interaction of the exciting radiation with the elementary volume of the

Card 1/2

SAMSON, A.M.; ADZERIKHO, K.S.

Light regime at great depths in scattering and luminescent media. Izv. AN SSSR. Ser. geofiz. no.7:1125-1130 Jl '63. (MIRA 16:8)

1. Institut fiziki AN BSSR. Predstavleno chlenom redaktsionnoy kollegii Izvestiy AN SSSR, Seriya geofizicheskaya, V.I. Krasovskim.

(Light—scattering)

L 11161-63 EWT(1)/BDS/EEC(b)-2--AFFTC/ASD/SSD--IJP(C)
ACCESSION NR: AP3002787 S/0051/63/014/006/0798/0804 56 55

AUTHOR: Adzerikho, K. S.; Samson, A. M.

TITLE: Effect of secondary absorption and emission processes on the intensity and polarization of luminescence. 1. Solution of the radiative transfer equation for polarized luminescence.

SOURCE: Optika i spektroskopiya, v. 14, no. 6, 1963, 798-804

TOPIC TAGS: radiative transfer, luminescence, polarized luminescence, secondary processes

ABSTRACT: Polarization measurements and effects are highly important in many optical investigations. Accordingly, the authors derive, on the basis of the S. Chandrasekhar (Radiative Transfer, Oxford, 1950) and G. V. Rozenburg (Dissertation, Moscow University, 1946) radiative transfer equations, precise analytic expressions for the intensity and degree of polarization of the secondary luminescence emerging from a plane-parallel layer of luminescent material of finite thickness under steady-state conditions. Further, they investigate the dependence of the degree of polarization of the luminescence on the frequency and state of polarization of the exciting radiation, the optical depth of the layer, the direction of

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L 11167-63
ACCESSION NR: AP3002787

observation, the absorption coefficient and other factors. The analysis is based on the vector-parametric method (or method of four Stokes parameters) which allows of simultaneous investigation of the intensity and the polarization characteristics of the radiation. Analytic expressions for determining the Stokes parameters in different orders are deduced. "In conclusion, we thank B. I. Stepanov for his interest in the work." Orig. art. has: 20 sets of formulas.

ASSOCIATION: none

SUBMITTED: 10Oct62 DATE ACQD: 15Jul63 ENCL: 00

SUB CODE: 00 NO REF SOV: 017 OTHER: 003

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Card 2/2

L 17773-63 EWT(1)/EWG(k)/BDS/ES(w)-2 AFFTC/ASD/ESD-3/APGC/SSD
Pz-4/Pab-4 AT S/0051/63/015/002/0226/0236
ACCESSION NR: AP3005846 70 69

AUTHOR: Adzerikho, K.S.; Samson, A.M. 21

TITLE: Influence of secondary absorption and emission processes on the intensity and polarization of luminescence. 2. Dependence of the intensity and degree of polarization of the luminescence on the properties of the substance and the direction of observation

SOURCE: Optika i spektroskopiya, v.15, no.2, 1963, 226-236

TOPIC TAGS: luminescence, Stokes parameter , polarization of luminescence

ABSTRACT: In Part 1 of the study (K.S.Adzerikho and A.M.Samson, Optika i spectro., 14,798,1963) there were derived general analytic expressions for the Stokes parameters. These can be used to calculate the dependences of the intensity and polarization of primary and secondary luminescence on the optical parameters of the substance and the conditions of the experiment. In the present paper the authors use these expressions to investigate a number of particular cases that are encountered in practice: observation of the "reflected" and "transmitted" radiation (observation from the illuminated side and from the back), angular distribution of

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L 17773-63

ACCESSION NR: AP3005846

the intensity and degree of polarization of the radiation "reflected" from a layer of infinite optical thickness, observation in a direction perpendicular to the layer. Numerical calculations are carried out for the two extreme cases of polarization $p(\nu_0) = 1/2$ and $-1/3$. Equations are given for the Stokes parameters, intensities and degrees of polarization of the primary and secondary luminescence in the different cases for illumination by natural light and by linearly polarized light. In addition some of these quantities are plotted as functions of the optical thickness of the layer. The authors also make some remarks concerning experimental measurements of the degree of polarization and the need for taking into account the influence of secondary absorption and emission processes in performing such measurements. The results of polarization calculations for a particular case are compared with experimental data in a table. "In conclusion, the authors express their deep gratitude to B.I.Stepanov for his great interest in the work." Orig.art.has: 31 sets of equations, 6 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 24 Dec62 DATE ACQ: 06Sep63 ENCL: 00

SUB CODE: PH NO REF SOV: 004 OTHER: 001

Card 2/2

L 10494-63 EWT(1)/EDS--AFFTC/ASD/SSD S/0048/63/027/005/0613/0616
ACCESSION NR: AP3000311

AUTHOR: Adzerikho, K. S.

TITLE: Computation of the influence of multiple processes of absorption and emission on polarization of luminescence [Report presented at the XI soveshchaniye po lyumenestsentsii (11th Conference on Luminescence), held at Minsk, 10-15 September 1962]

SOURCE: Izvestiya AN SSSR. Seriya fizicheskaya, v. 27, no. 5, 1963, 613-616

TOPIC TAGS: polarized-radiation propagation, polarized radiation, luminescence, primary luminescence, secondary luminescence

ABSTRACT: A depolarization effect produced by secondary processes of adsorption and radiation and interfering with the propagation of polarized radiation in luminescent substances with overlapping absorption and emission bands has been investigated. Stokes' four-parameter method was used, since it permits simultaneous investigation of the intensity and the basic polarization characteristics of radiation propagated in or emitted by a substance. Investigation showed that when the direction of observation is perpendicular to the direction of excitation,

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the intensity of primary luminescence changes according to Bouguer's exponential law, while the intensity of secondary luminescence is a function of excitation light frequency and differs from the intensity computed when the polarization state is not taken into account. For small values of quantum yield the contribution of secondary luminescence to the total intensity is insignificant. The degree of polarization of secondary luminescence is determined by the function of excitation light frequency and depends strongly on the absorption coefficient. With an increase in the absorption coefficient, the importance of secondary processes in the depolarization of luminescence increases. The dependence of the degree of polarization of secondary luminescence on the optical depth of a layer is of the same type for excitation by either linearly polarized light or unpolarized light. "In conclusion I express my thanks to B. I. Stepanov and A. M. Samson for their interest in the work." Orig. art. has: 6 formulas and 2 figures.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 12Jun63 ENCL: 00

SUB CODE: PH NO REF SOV: 009 OTHER: 001

ADZERIKHO, K.S.; SAMSON, A.M.

Effect of the secondary processes of absorption and emission on the intensity and poarization of luminescence. Part 2. Opt. i spekt. 15 no.2:226-236 Ag '63. (MIRA 17:1)

ADZERIKHO, K.S. [Adziarykha, K.S.]; SAMSON, A.M.

Study of the polarized luminescence of crystals. Vestsi AN BSSR. Ser. fiz.-tekh. nav. no.4:23-29 '64. (MIRA 18:3)

L 52758-65 EWA(d)/EWT(1)/EEC(k)-2/EWG(v)/FCC/EEC-4/EEC(t) Pn-4/Pe-7/
Pg-4/Pt-7/Pi-4/P1-4 GS/GW/WS-4
ACCESSION NR: AT5011180 UR/0000/64/000/000/0260/0267

AUTHOR: Adzerikho, K. S.; Samson, A. M.

TITLE: The problem of propagation of polarized radiation in a light-scattering medium with a reflecting bottom

SOURCE: Mezhvedomstvennoye soveshchaniye po aktinometrii i optike atmosfery, 5th, Moscow, 1963. Aktinometriya i optika atmosfery (Actinometry and atmospheric optics); trudy soveshchaniya, Moscow, Izd-vo Nauka, 1964, 260-267

TOPIC TAGS: atmospheric optics, polarized radiation, radiation propagation, molecular scattering, scattering medium, light reflection

ABSTRACT: Investigations of the propagation of radiation in a medium with a reflecting bottom have been made by a number of authors. However, solutions of the radiation transfer equation for molecular scattering have been obtained without taking into account the state of polarization; besides, they are quite complex and difficult to analyze. In this paper, the authors have determined the intensity and polarization characteristics (maximum degree of polarization, position of the plane of predominant polarization, degree of ellipticity) for first-order molecular scattering when the medium has a reflecting bottom. Numerical compu-

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L 52753-65

ACCESSION NR: AT5011180

tations of these values are made for a constant reflection coefficient and for a case when it is dependent on the angle of incidence of radiation. The authors have also determined the angular distribution of the intensity and degree of polarization of outgoing radiation as a function of the reflectivity of the underlying surface, the optical properties of the investigated medium and the angle of incidence of external radiation. It is assumed that the investigated medium has an optical thickness τ_0 and is bounded by a reflecting surface at the bottom ($z = z_0$). Two cases are considered: 1) the reflection coefficient is not dependent on the angle of incidence and is determined entirely by the properties of the underlying medium, and 2) the underlying medium reflects radiation in conformity to the Fresnel laws. The results are shown in Figures 1-4 of the Enclosure. Orig. art. has: 14 formulas, 4 figures and 1 table.

ASSOCIATION: Institut fiziki AN BSSR, Minsk (Physics Institute, AN BSSR)

SUBMITTED: 25Nov64 ENCL: 05 SUB CODE: ES, OP

NO REF SOV: 003 OTHER: 000

Card 2/2

L 38817-66 EWT(l)/T IJP(c) GG

ACC NR: AR6021034 SOURCE CODE: UR/0058/66/000/002/D070/D070

AUTHOR: Adzerikho, K. S.

TITLE: Use of a vector-parametric method to investigate spectroscopic properties of crystals

SOURCE: Ref zh.Fiz, Abs. 2D528

REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR. T. 3, vyp. 1, 1964, 420-427

TOPIC TAGS: crystal property, polarized luminescence, dipole interaction, spectroscopy, cubic crystal, light excitation

ABSTRACT: The author proposes a vector-parametric method (a method with four Stokes parameters) to study the polarization luminescence of crystals. The matrix for the transformation of the Stokes parameters is obtained for polarized luminescence of crystals (dipole-dipole radiation). The intensity and the degree of polarization of the luminescence of cubic crystals is presented for cases most frequently encountered in experimental practice. The Fresnel reflection and the migration of energy of excitation during investigation of spectroscopic properties of the luminescence of the crystals are taken into account. [Translation of abstract]

SUB CODE: 20

Card 1/1

L 06251-67 EWT(1) IJP(c)

ACC NR: AP6031954 SOURCE CODE: UR/0051/66/021/003/0275/0286

23
B

AUTHOR: Adzerikho, K. S.

ORG: none

TITLE: Effect of reflection on the characteristics of polarized luminescence

SOURCE: Optika i spektroskopiya, v. 21, no. 3, 1966, 275-286

TOPIC TAGS: polarized luminescence, light reflection

ABSTRACT: In this study of the characteristics of polarized luminescence, reflection is taken into account by means of the vector-parameter method, based on the introduction of the following four Stokes parameters which completely characterize polarized radiation:

$$S_1 = I, \quad \frac{S_2}{S_1} = P, \quad \frac{S_3}{S_2} = \operatorname{tg}\psi, \quad \frac{S_4}{S_1} = q, \qquad (1)$$

where I is the radiation intensity, P is the degree of radiation polarization, angle ψ defines the position of the plane of preferred polarization, and q is the degree of ellipticity. Boundary conditions are formulated for the equation of transfer of polarized radiation in a luminescent plane-parallel layer. An analytical expression of the solution of the transfer equation allowing for reflection is derived. The effect of reflection on the intensity and degree of polarization of primary luminescence is analyzed by means of this expression for a specific case (optical thickness of the

UDC: 535.374

Card 1/2

ACC NR: AP6031954 O

layer τ_0 = 2, refractive index n = 1.35). Orig. art. has: 3 figures, 2 tables and 31 formulas.

SUB CODE: 20/ SUBM DATE: 09Mar65/ ORIG REF: 005/ OTH REF: 005

Card 2/2 egh

ADAMENKO, F. Ya.

ADAMENKO, S. Ya. - "Investigation of the stability of weak foundations of the spillways of locks". Minsk, 1955. Belorussian Polytechnic Inst imeni I. V. Stalin. (Dissertation for the Degree of Candidate of Technical Science.)

SO: Knizhnaya Letopis', No. 43, 22 October 1955. Moscow

SOV/124-57-5-5813

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 111 (USSR)

AUTHOR: Adzerikho, S. Ya.

TITLE: On the Problem of the Hydraulic-engineering Design of Dam Reinforcements on Peat Foundations (K voprosu o gidrotekhnicheskom raschete flyutbetov na torfyanykh osnovaniyakh)

PERIODICAL: Tr. In-ta melior. vod. i bolot. kh-va AN BSSR, 1955, Vol 6, pp 266-280

ABSTRACT: Experiments were conducted under laboratory conditions (trough 250 by 30 by 55 cm) on the breaking down of a peat foundation in the tailwater basin of a model of a hydraulic installation (a single sheet pile 10 cm deep) under the action of seepage pressure. Tests were performed on seven structurally undisturbed monolithic peat specimens of 20-45% stage of decomposition and the volumetric weight (in its natural deposit) of $\gamma = 0.96 - 1.01$ g/cm^3. The breaking down took place under moderate gradients of seepage flow (7.4 - 15.4) in the form of horizontal and 45-degree fissures beginning at the base of the sheet pile which were instrumental in making the soil bulge and in creating a sharp increase in the seepage flow. Measurements of the turbidity.

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On the Problem of the Hydraulic-engineering Design of Dam Reinforcements (cont.)

of the water in the tail-water basin showed the negligible role of the washing away of the fines. It is deduced on the basis of the experiments that peat, when used in the foundation of hydraulic structures, resists the erosion of the hydrodynamic pressure not by its weight (since $\gamma \sim 1$) but by the forces of cohesion between the vegetable residue. A system is proposed for calculating the stability of the soil foundation layer in a tail-water basin the height of which is equal to the depth of the sheet piles and the length of which is such as would be from the sheet pile itself to that section where the hydrodynamic pressure is less than the tensile stress of the peat. The hydrodynamic pressure was determined as

$$\gamma \int_0^s V_y \, dy$$

where V_y is the vertical component of the rate of seepage for a single sheet pile and an infinitely deep impervious layer and γ is the volumetric weight of the water. By approximation, the rate of seepage V_y was assumed to be that along the streamline. The allowable tensile-stress value determined by special tests on specimens of peat was subtracted from the calculated pressure distribution and the remaining excess pressure was considered to be the load on a console beam (the soil layer)

On the Problem of the Hydraulic-engineering Design of Dam Reinforcements (cont.)

which was assumed to be working in bending. The comparison of the stresses calculated in this way (from 23 to 63 g/cm^2) showed satisfactory agreement with the results of the rupture tests. It is to be noted that these values cannot be equated owing to the normally strongly pronounced anisotropy of the peat, since in a slab of peat subjected to bending the tensile stresses develop in a direction perpendicular to that under which the rupture tests were performed. The methodology recommended here does not take into consideration the weight of the peat proper (under full-scale conditions it may well play a considerable role) and the forces of cohesion (resistance to shear). The calculation scheme is characterized by its tentative nature. Bibliography: 6 references.

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1. Iz Okruzhnata sanepidstantsiia i Okruzhnata bolnitsa, Plovdiv.
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1. Chair of General Biology, Higher Pedagogic Institute, Plovdiv. Head:Professor Zh.Lambrev and Chair of Roentgenology and Radiology, I.P.Pavlov Higher Medical Institute, Plovdiv. Head:Prof. Dr K.Vlakhov.

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1. Chairs of General Biology at the Higher Pedagogic Institute, Plovdiv, and the Higher Medical Institute, Plovdiv. Head:Professor Dr Zh.Lambrev, and Chair of Botany, Higher Agricultural Institute, Plovdiv. Head: Prof. K.Kiriakov.

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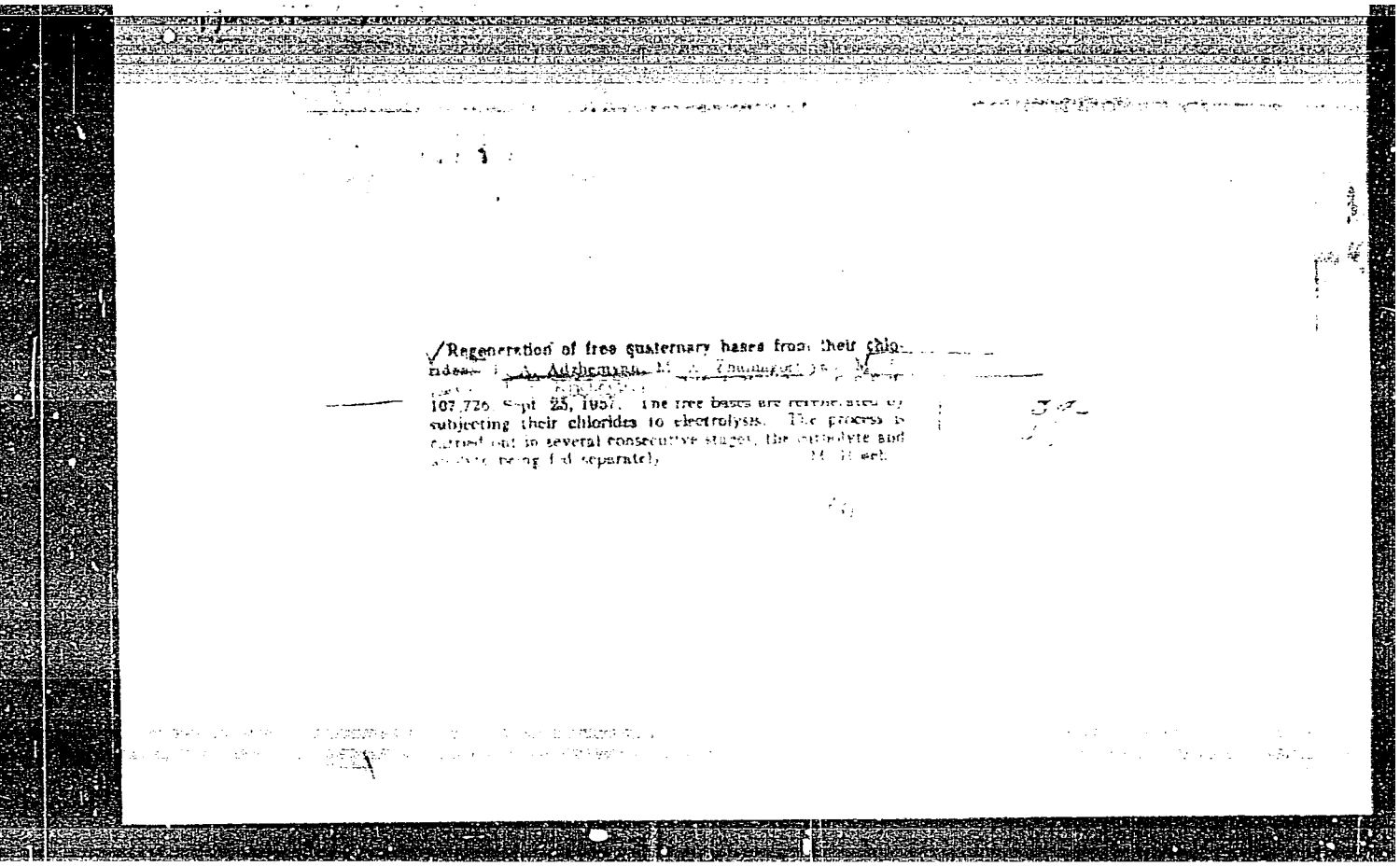

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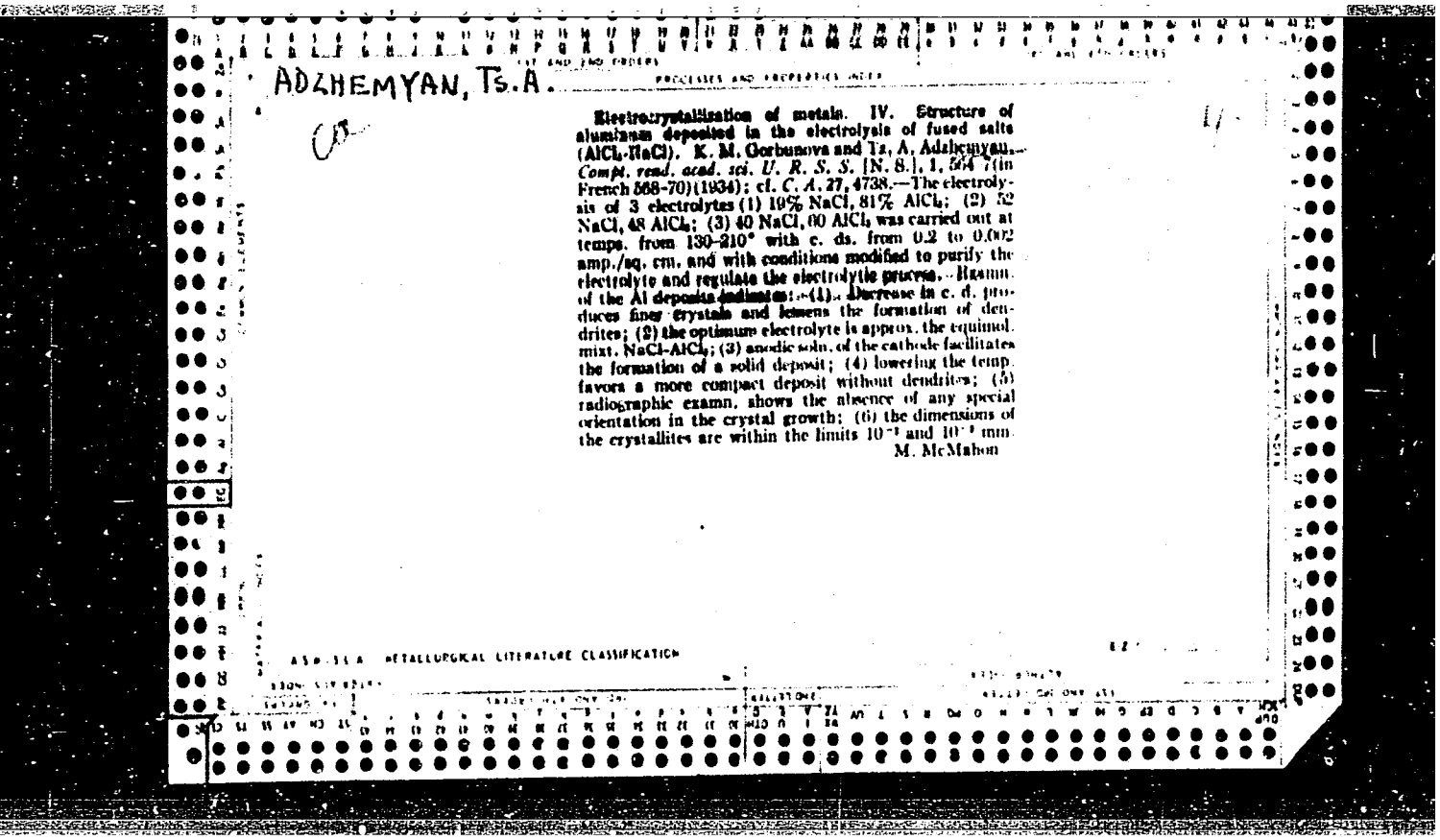

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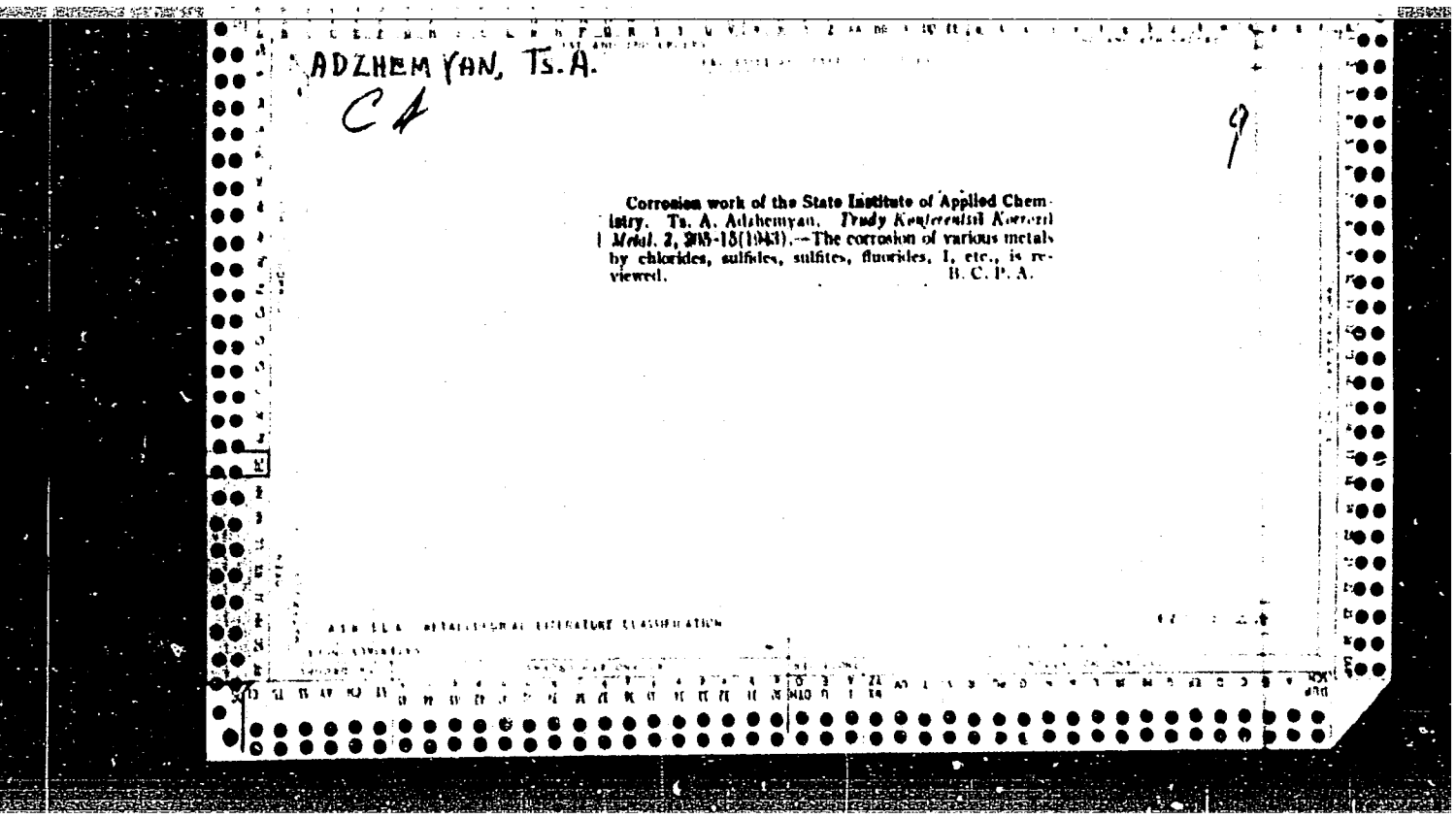
M. McMahon

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION



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1. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov.

ADZHIGITOV, F.I.

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1. Kazabekovskaya rayonnaya bol'nitsa, Dagestan.
(HEPATITIS, INFECTIOUS)

ADZHIGITOV, F.I.

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Vop. virus. 7 no.3:307-309 My-Je '62. (MIRA 16:8)

1. Institut eksperimental'noy patologii i terapii AMN SSSR, Sukhumi.
(VIRUSES) (TISSUE CULTURE) (TUMORS)

ADZHIGITOV, F.I.

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(VIRUSES) (ANTIGENS AND ANTIBODIES)

GORDELADZE, T.D.; ADZHIGITOV, F.I. (Tbilisi)

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1. Iz kafedry patologicheskoy anatomii (zav. - deystvitel'nyy chlen AN Grizinskoy SSR prof. V.K. Zhegenti) Tbilisskogo meditsinskogo instituta i otdela patomorfologii (zav. - prof. B.A. Lapin) Instituta eksperimental'noy patologii i terapii AMN SSSR, Sukhumi.

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1. Institut eksperimental'noy patologii i terapii i Institut epidemiologii i mikrobiologii imeni N.F. Gamaleia AMN SSSR.

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1. Institut eksperimental'noy patologii i terapii AMN SSSR, Sukhumi, i Institut poliomiyelita i virusnykh entsefalitov AMN SSSR, Moskva.