URUSOV, A.V.; KETAT, O.B.; KOL'TSOVA, V.V.

Find of reef facies in the Permian sediments of the Northern Caucasus. Dokl. AN SSSR 160 no.5:1168-1171 F '65.
(MIRA 18:2)

1. Volgogradskiy nauchno-issledovatel'skiy institut nefti i gaza. Submitted July 13, 1964.

KOL'TSOVA, Ye. V.: Master Agric Sci (diss) -- "The formation of economic features in hybrid plum seedlings depending on the choice of starting forms". Michurinsk, 1957. 20 pp (Min Agric USSR, Fruit and Vegetable Inst im I. V. Michurin), 100 copies (KL, No 4, 1959, 129)

KOL'TSOVA, Ye. V

M.

USSR/Cultivated Plants - Fruits. Berries.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44307

Author : Kol'tsova, Ye.V.
Inst : -
Title : The Formation of Economically Valuable Characteristics in the Hybrid Seedlings of the Plum.

Orig Pub : Agrobiologiya, 1957, No 3, 79-84.

Abstract : A study of the winter resistance and of the quality of the fruit of 2657 hybrids of the plum of the Michurin Institute of Horticulture. The degree of the frost damage to the seedlings was calculated according to the 6-point system. The most promising ones with regard to winter resistance yield and the quality of the fruit are the seedlings obtained from crossing of the local winter resistant, along-the-Volga varieties of plums (Ternosliv,letniy; Tern kistevoy) with the Michurin variety Renclod regorma. The repeated crossing of the new varieties between each

Card 1/2

KOL'TSOVA, Z.A., kand.sel'skokhoz. nauk

Experiments in controlled transformation of the spring wheat Mil'turum 321 into a winter crop in Sverdlovsk Province. Agrobiologiia no.2:227-235 Mr-Ap '63. (MIRA 16:7)

1. Sverdlovskiy sel'skokhozyaystvennyy institut.
(Sverdlovsk Province--Wheat--Varieties)

KOLTUN, L.I.; IYAKHOV, Yu.V.; PIZNYUR, A.V.

Temperatures of the solutions of gas-liquid inclusions in minerals of the Savinskoye deposit No.5. Zap. Vses. min. ob-va 92 no.3:327-334 '63. (MIRA 17:9)

KOLTUN, L.I.

Using mineralothermometric analysis in studying the formation of some gold ore deposits of the Urals. Trudy VNIIP 1 no.2:63-88 '57. (MIRA 12:3)

(Kochkar'--Gold ores)
(Berezovskiy (Sverdlovsk Province)--Gold ores)
(Geochemistry)

KOLTUN, L.I.; LYAKHOV, Yu.V.; PIZNYUR, A.V.

Formation of axinites. Zap.Vses.min.ob-va 90 no.3:301-307 '61.
(MIRA 14:10)

1. L'vovskiy universitet.
(Axinite)

MYAZ', N.I.; KOLTUN, L.I.

Inclusions of mineral-forming solutions in epidotes. Min. sbor. no.14:325-327 '60. (MIRA 15:2)

1. Gosudarstvennyy universitet imeni Ivana Franko, L'vov.
(Kazakhstan-epidote crystals)
(Transbaikalia-epidote crystals)

KOLTUN, L.I.

History of the Department of Geology of Lvov University. Visnyk L'viv.un. Ser.geol. no.1:3-12 '62. (MIRA 16:7)
(Geology--Study and teaching)

KOLTUN, L.I.; LOKERMAN, A.A.

Some results of the mineralogic and thermometric study of complex metal deposits in eastern Transbaikalia. Visnyk L'viv.un. Ser.geol. no.1:107-114 '62. (MIRA 16:7)
(Transbaikalia--Ore deposits)

KOLTUN, L.I.; LOKERMAN, A.A.

Temperature of the formation of the Novo-Shirokinskoye complex metal deposit (eastern Transbaikalia). Vest. L'vov. un. Ser. geol. no.2:89-93 '64. (MIRA 19:1)

KOLTUN, L.I.; GOLOVCHENKO. N.G.

Determination of temperatures of mineral formation in the Nikitovka mercury deposit based on the inclusions in minerals. Min. sbor. no.16:407-410 '62. (MIRA 16:10)

1. Gosudarstvennyy universitet imeni Ivana Franko, L'vov.
(Ukraine—Mineralogy)

GORZHEVSKIY, D.I.; KOLTUN, L.I.; LAZARENKO, Ye.K.; LAZ'KO, Ye.M.; MATKOVSKIY, O.I.; SLIVKO, M.M.; YASINSKAYA, A.A.

Academician A.G. Betekhtin; obituary. Min. sbor. no.16:454-456 '62. (MIRA 16:10)

(Betekhtin, Anatolii Georgievich, 1897-1962)

GILLER, Ya.L.; BOBROVNIK, D.P.; GORETSKIY, V.A.; GORZHEVSKIY, D.I.; KOLTUN, L.I.; LAZARENKO, Ye.K.; LAZKO, Ye.M.; REZVOY, D.P.

Gugo Leonardovich Piotrovskii; obituary. Min. sbor. no.16: 456-458 '62. (MIRA 16:10)

(Piotrovskii, Gugo Leonardovich, 1897-1962)

KOLTUN, L.I.; MATKOVSKIY, O.I.

Third All-Union Conference on the Formation and Distribution of Endogenetic Ore deposits. Min. sbor. no.16:464-466 '62.
(MIRA 16:10)

1. Gosudarstvennyy universitet imeni I.Franko, L'vov.
(Ore deposits)

26901
S/025/61/000/010/002/003
D264/D304

26.2421

AUTHOR: Koltun, M., Engineer

TITLE: The future of solar batteries

PERIODICAL: Nauka i zhizn', no. 10, 1961, 63 - 64

TEXT: Ways of improving the efficiency of solar batteries are considered. In 1960 the efficiency of solar batteries stood at 14% and the theoretical effective level for silicon batteries is 22%. The efficiency of a semiconductor is determined mainly by the width of its forbidden zone. Research has established that energy quanta can best be trapped by a semiconductor with a forbidden zone 1.5 ev wide. With silicon, the width of the forbidden zone is only 1.2 ev, but synthetic semiconductors, termed intermetallic, have recently been developed with a forbidden zone nearer to 1.5 ev. The maximum efficiency of such semiconductors utilize the visible portion of the spectrum, wasting the ultraviolet and infrared bands (for the former the forbidden zone is too narrow, for the latter - too large). In

Card 1/ 2

KOLTUN, M., inzh.

Story about a short circuit. Nauka i zhizn' 29 no.2:67-68 F '62. (MIRA 15:3)
(Physical metallurgy)

KOLTUN, M., inzh.

Solar energy ponds. Tekh.mol. 30 no.11:36 '62. (MIRA 16:9)
(Solar energy ponds)

KOLTUN, M.A., inzh.

Essential oil from wastes of the aromatic group of tobacco. Masl.-zhir. prom.28 no.11:32 N '62. (MIRA 15:12)

1. Sukhumskiy tabachno-fermentatsionnyy zavod.
(Essences and essentail oils)
(Tobacco)

KOLTUN, Mariya Isaakovna; KLEVENSKAYA, V.V., red.; PELIKAN, Yu.V., tekhn. red.

[Physicogeographical regionalization of the Soviet Union; index to literature published in 1917-1960]Prirodnoe (fiziko-geograficheskoe) raionirovanie territorii Sovetskogo Soiuza; ukazatel' literatury, izdannoi v 1917-1960 gg. Moskva, Gos. biblioteka SSSR im. V.I.Lenina, 1962. 379 p. (MIRA 16:1)
(Bibliography--Physical geography)

KOLTUN, M.I.; KLEVENSKAYA, V.V., red.; VASIL'YEVA, L.P., tekhn.red.

[Economic regionalization of the Soviet Union and pre-revolutionary Russia (history and theory of the problem); bibliography] Ekonomicheskoe raionirovanie Sovetskogo Soiuza i dorevoliutsionnoi Rossii (istoriia i teoriia voprosa); bibliograficheskii ukazatel'. Moskva, 1959. 42 p. (MIRA 12:9)

1. Moscow. Publichnaya biblioteka.
(Russia--Economic conditions--Bibliography)
(Bibliography--Russia--Economic conditions)

ACCESSION NR: AP4033405 S/0076/64/038/003/0723/0725

AUTHOR: Koltun, M. M.

TITLE: The nature of the surface film of a silicon photocell formed by anodic etching

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 3, 1964, 723-725

TOPIC TAGS: silicon photocell, surface film, anodic etching, optical characteristics, electrical characteristics, heat balance, semiconductor, spectral analysis, x ray analysis

ABSTRACT: The film formed on the surface of silicon by anodic etching (usually the final operation in the preparation of silicon photocells and semiconductors) was investigated since this film determines the optical and electrical characteristics of the photocell and its heat balance when operating under strong radiation heating. The silicon samples, in an electrolyte consisting of 20% NH_4F, concentrated HCl, and concentrated H_3PO_4 in a 20:2:1 ratio, were etched with a current density of 5-20 milliamps/cm^2, using a platinum cathode. Spectral and

Card 1/2

ACC NR: AP7000034 SOURCE CODE: UR/0051/66/021/005/0630/0637

AUTHOR: Koltun, M. M.; Golovner, T. M.

ORG: none

TITLE: Coating of silicon photocells with a translucent material

SOURCE: Optika i spektroskopiya, v. 21, no. 5, 1966, 630-637

TOPIC TAGS: semiconductor device, photoconductive cell

ABSTRACT: Results of the experimental and theoretical study of silicon photocells coated with a translucent material are given. The following translucent materials were used to coat the silicon photocells, employing the vacuum deposition method: MgF_2 (n = 1.36), SnO_2 (n = 2.0), SiO (n = 1.9), SiO_x (n = 1.7), SiO_2 (n = 1.44), CeO_2 (n = 2.2), and ZnS (n = 2.3). The n-index data are given for λ = 0.8 μ. Control glass specimens coated with translucent materials were used to evaluate absorption by the material. Absorption ranging from 2 to 3% at optical thickness d = 0.15 μ was established for SnO_2, ZnS, CeO_2, and SiO films in the 0.4—0.5 μ range only. The effectiveness of these materials as translucent coatings is only slightly affected by this low value of abosrption. Experimental study indicates that the use of translucent coatings increases the spectral sensitivity of silicon photocells and also improves their volt-ampere characteristics. Fig. 1 shows volt-ampere characteristics of single photocells before and after coating with MgF_2, SiO_2,

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ACC NR: AP7000034

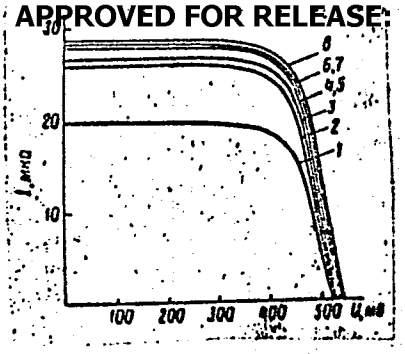


Fig. 1. Load volt-ampere characteristics of a silicon photocell before and after coating with translucent films (d = 0.15 μ)

1 - Noncoated photocell (efficiency = 7.6%); 2 - MgF_2 (9.6%); 3 - SiO_2 (10%); 4, 5 - CeO_2 and ZnS (10.5%); 6, 7 - SiO_x, SnO_2 (10.7%); 8 - SiO (11.0%).

CeO_2, ZnS, SiO_x, SnO_2, and SiO films with d = 0.15 μ. Measurements were made using a simulator of solar radiation. A 41—44% increase in efficiency was observed for the photocells when SiO_x, SnO_2, and SiO films were applied. Orig. art. has: 4 formulas, 5 figures, and 1 table. [GS]

SUB CODE: 09/ SUBM DATE: 14May65/ ORIG REF: 005/ OTH REF: 007/ ATD PRESS: 5110

Card 2/2

ACC NR: AP7003153 SOURCE CODE: UR/0368/66/005/006/0770/0773

AUTHOR: Kagan, M. B.; Koltun, M. M.; Landsman, A. P.

ORG: none

TITLE: Reflection coefficient of highly-doped GaAs in the spectral range from 0.2 to 25 μ

SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 6, 1966, 770-773

TOPIC TAGS: solid state laser, semiconductor laser, gallium arsenide, ~~laser material spectroscopy~~, solar cell, light reflection coefficient, optic spectrum

ABSTRACT: Measurements of the regular-reflection coefficient are given for single-crystal p-type GaAs samples with Zn doping (for carrier concentration from 1.7 to $15 \cdot 10^{19}$ cm^{-3}), and n-type samples (for a carrier concentration of $3 \cdot 10^{15}$ cm^{-3}). An SF-4 spectrophotometer is used from 0.2 to 0.75 μ and an IKS-14 spectrophotometer from 0.75 to 25 μ. Several samples were chemically polished and their surface irregularities did not exceed 0.3 μ, while one sample had irregularities of about 1 μ and exhibited a lower reflection coefficient in the ultraviolet and optical region of the spectrum. In the optical region the carrier concentration has little influence on reflection properties. In the infrared, the reflective power increases considerably with free carrier concentration, while at the same time the minimum occurring at wavelengths where the index of refraction approaches unity is shifted

Card 1/2 UDC: 535.39

ACC NR: AP7003153

toward shorter lengths, approximately from 12 to 4 μ. The reflection coefficient can be brought down from 32 to 0.5—1.0% in any given part of the optical spectrum by SiO coatings of suitable thickness (0.21 μ), while MgF_2 and SiO_2 coatings (0.21 μ) are not as effective. Two methods of sharply reducing the reflection from highly-doped single crystals in the 3—25 μ region are discussed. One of these involves coating the surface with irregularities 10—30 μ thick and treating the same chemically; the other — coating the surface with a layer of organic silicon varnish 10—40 μ thick, highly absorbing in the infrared but transparent in the 0.4—1.0 μ regions. In the infrared region, use of silicon-based coatings can increase the thermal radiative power of GaAs surface (at 25°C) from 0.49—0.51 to 0.8—0.92. These coatings do not damage the surface, and good diffused junctions are still possible. One can expect that the use of the above procedures will considerably improve the performance of lasers and solar cells. Orig. art. has: 3 figures. [WA-14]

SUB CODE: 20/ SUBM DATE: 22Dec65/ ORIG REF: 001/ OTH REF: 002

Card 2/2

L 08877-67 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6025966 SOURCE CODE: UR/0051/66/021/001/0116/0118

AUTHOR: Koltun, M. M.; Kagan, M. B. 44

ORG: none

TITLE: Gallium arsenide optical filters

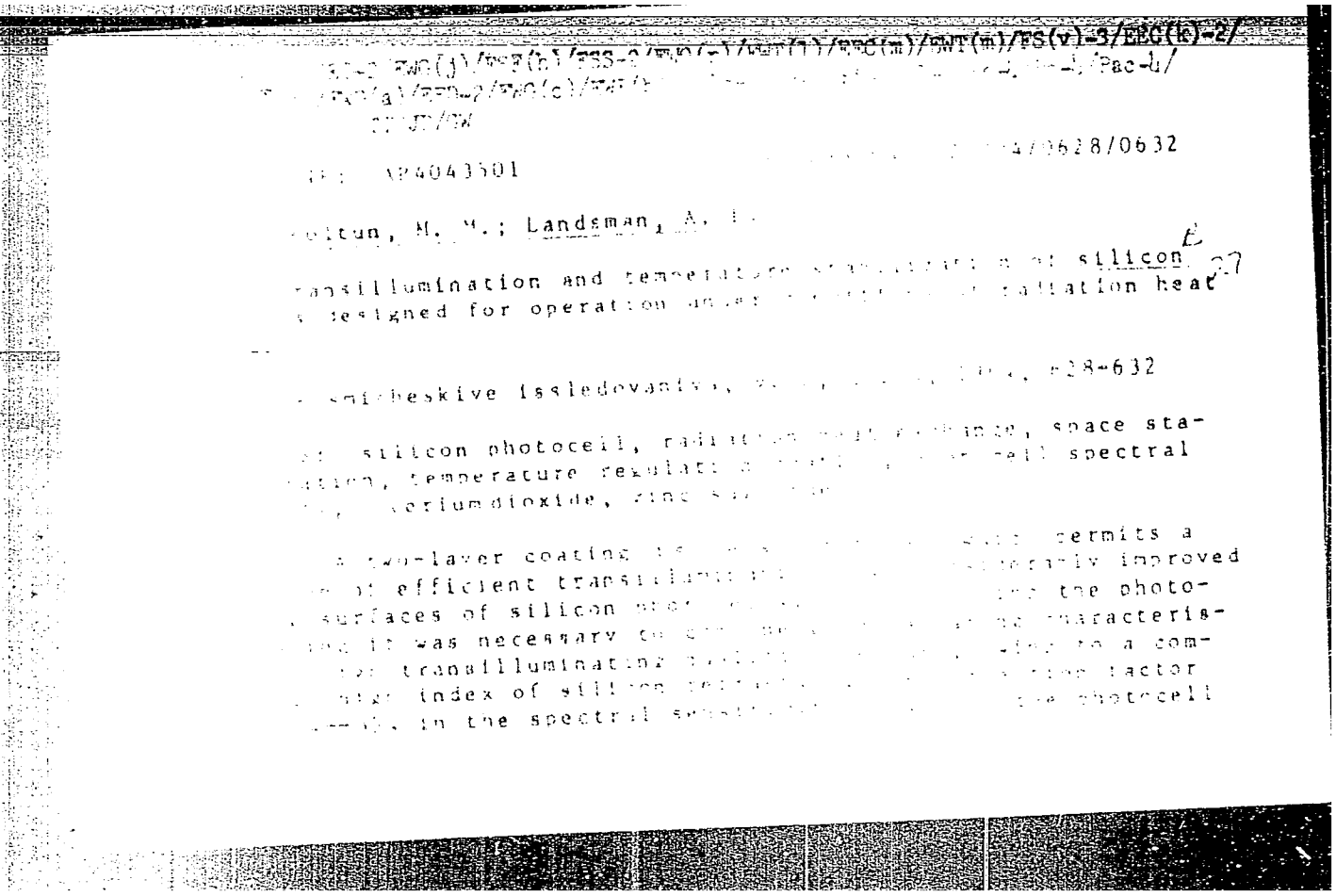
SOURCE: Optika i spektroskopiya, v. 21, no. 1, 1966, 116-118

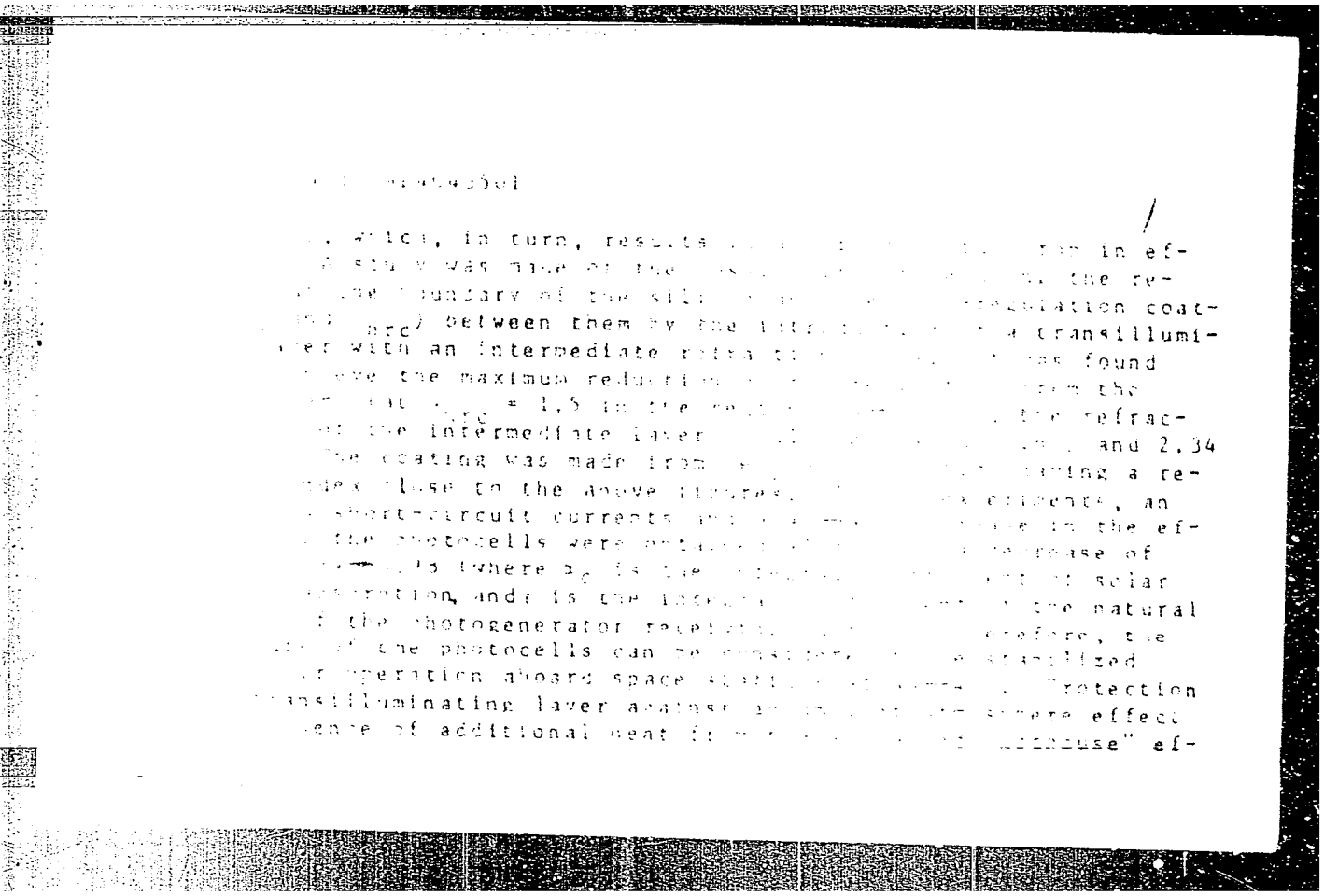
TOPIC TAGS: gallium arsenide, gallium optic material, optic filter

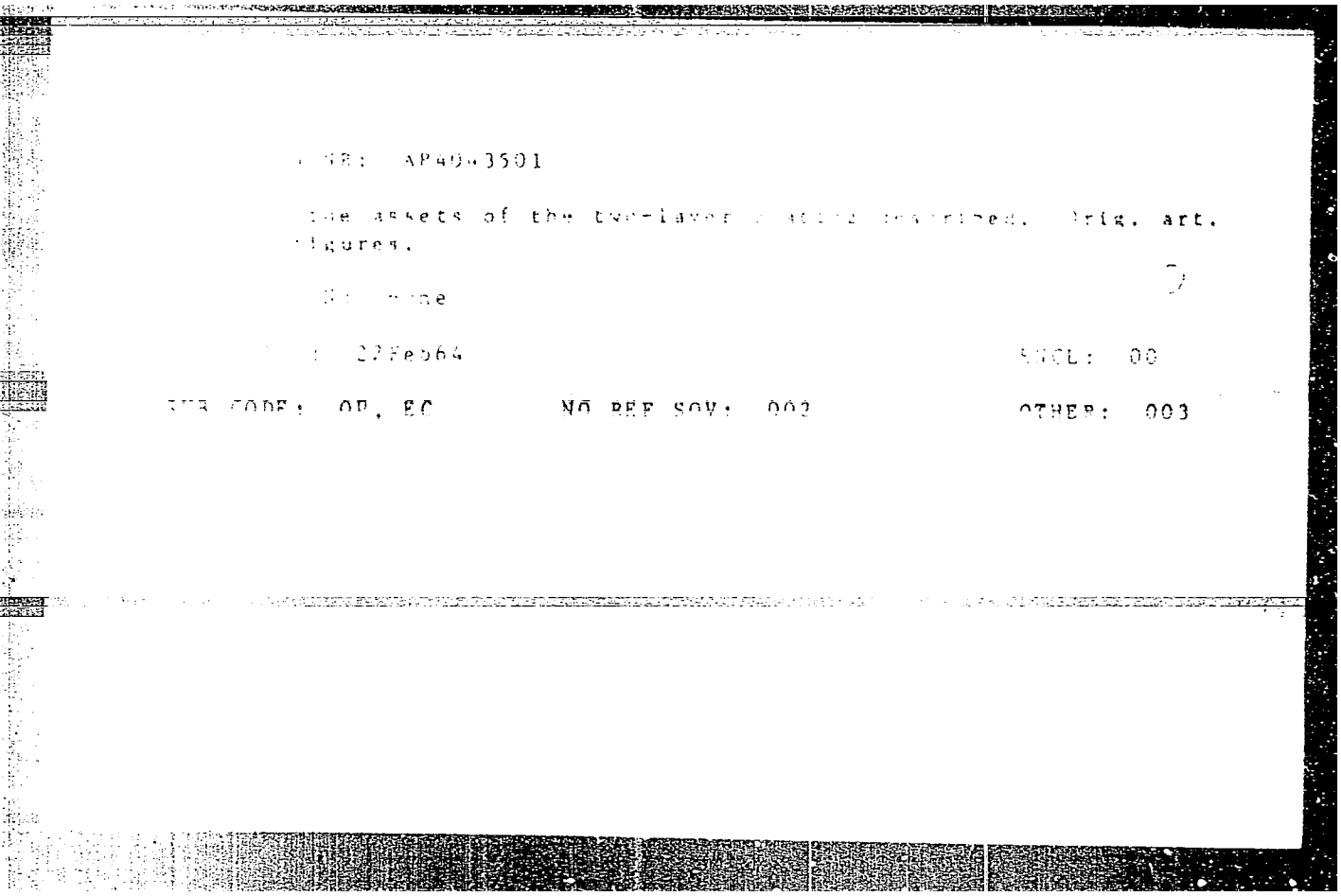
ABSTRACT: The optical properties of GaAs single crystals at the edge of the absorption band were studied and it was found that they can serve as high quality optical filters in the near infrared. A narrow band filter can be created by diffusing a low-ohmic layer of p-type GaAs on a high-ohmic sample of GaAs. Transmission curves are shown for samples having various concentrations of n-type surfaces. The transmission of the filters can be improved by coating both surfaces of the crystals with SiO. The pass band can be narrowed by using glass plates with films of SnO_2. Such a filter has high reflectivity in the region $\lambda > 1.5$ μ. The SnO film completely stops radiation of $\lambda > 2.5$ μ, while maintaining high transmission (70-80%) in the region 0.9 to 1.2 μ. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 25Dec65/ ORIG REF: 001/ OTH REF: 000

Card 1/1 UDC: 535.345.6







AP4043501

the assets of the two-layer [illegible]. Orig. art. has: 1 figure.

[illegible]

ASSOCIATION: none

SUBMITTED: 27Feb64 ENCL: 00

SUB CODE: OP, EC NO REF SOV: 002 OTHER: 003

EWT(1)/EWT(m)/EPF(c)/EPF(n)-2/EWG(m)/EWP(t)/EWP(b) IJP(c) JD/WW/GS

ION NR: AT5015789 UR/0000/65/000/000/0029/0033

32
31
G+1

AUTHOR: Koltun, M. M.; Landeman, A. P.

TITLE: Thermal balance of silicon photocells operating under radiation heat-conditions

SOURCE: AN SSSR. Energeticheskiy institut. Ispol'zovaniye solnechnoy energii v khozyaystve SSSR (Use of solar energy in the economy of the Moscow, Izd-vo Nauka, 1965, 29-33

TOPIC TAGS: silicon photocell

ABSTRACT: The possibilities of improving the thermal balance of silicon photocells by altering the optical characteristics of their working surfaces are theoretically and experimentally explored. Special treatments of the working surfaces were intended to reduce the working temperature of sun-illuminated photocells. Two methods of surface treatment were used: (1) The anode

ION NR: AT5015789

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...y a 5%-solution of HF after D. R. Turner (J. Electrochem. Soc., 1958, ...and (2) The chemical etching in HF mixed with HNO_3 which resulted in ...e surface with a gray SiO_2 film. It was found that: (1) The electro- ...treatment practically does not protect the photocell from radiational ... the reflectance of the surface within 3—30 μ practically did not ... The chemical treatment holds the reflectance under 8—10% within ...which testifies to a bigh absorption and 0.9—0.92 radiation. "The ...n to thank L. D. Kislovskiy for his advice and assistance in the ...asurements." Orig. art. has: 2 figures and 3 formulas.

...ION: none

... 12Feb65 ENCL: 00 SUB CODE: EM,TO

... V: 003 OTHER: 004

KOLTUN, R.K. (Leningrad, ul. Dzerzhinskogo, 33, kv.23)

Therapeutic results with the use of new modifications of Suslov's rhinoplasty. Vest. khir. 92 no.5:64-68 My '64.

(MIRA 18:1)

1. Iz kliniki khirurgicheskoy stomatologii (zav. - prof. A.A. K'yandskiy) 1-go Leningradskogo meditsinskogo instituta imeni I.P. Pavlova.

KOLYANDR, L.Ya.; GRINBERG, A.M.; KOLTUN, R.M.; ZASLAVSKAYA, T.I.

Determination of constants of pure o-xylene and the development of indexes for characterization of commercial product. Zhur. Priklad. Khim. 26,438-42 '53. (MLRA 6:4)
(CA 47 no.19:9703 '53)

1. Kharkov Coke-Chem. Plant.

LITVINENKO, M.S.; NOSALEVICH, I.M.; GLUZMAN, L.D.; GIMMEL'SHTEYN, T.Ye.; KOLTUN, R.M.

Tasks of the byproduct coking industry in augmenting the number of coke-oven by-products. Koks i khim. no.3:41-45 '56. (MLRA 9:8)

1. Ukrainskiy uglekhimicheskiy institut (for Litvinenko, Nosalevich, Gluzman); 2. Giprokoks (for Gimmel'shteyn); 3. Khar'kovskiy koksokhimicheskiy zavod.
(Coke industry)

FRACKOWIAK, D.; KOLTUN, S.

Absorption anisotropy of some organophosphors. Acta physica Pol 23 no.6:685-694 Je '63.

1. Physics Department, Nicholas Copernicus University, Torun.

KOLTUN, Sergey Ivanovich; IVUSHKIN, Mikhail Prokhorovich; SOSNOVSKIY, Georgiy Ivanovich; GANAGO, O.A., kandidat tekhnicheskikh nauk, redaktor; PUCHKOV, S.G., inzhener, redaktor; MUGINA, N.A. tekhnicheskiy redaktor

[Economy of sheet steel] Ekonomiia shtampovoi stali. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 50 p. (MLRA 10:5)

(Sheet-metal work)

KOLTUN, Sergey Ivanovich; KAZARINOV, Boris Nikolayevich; KAYDALOV, P.K., inzhener, retsenzent; DUGINA, N.A., tekhnicheskiy redaktor.

[Improvements in forge shops; practices of the Ural Machine Manufacturing Plant] Usovershenstvovaniia v kuznechnom tsekhe; iz opyta Uralmashzavoda. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1956. 51 p. (MLRA 10:6)
(Forging machinery)

VAULIN, Yuriy Sergeyevich; KOLTUN, Sergey Ivanovich; LEVANOV, Aleksey Nikolayevich; KON'KOV, A.S., dotsent, retsenzent; KATS, I.S., inzh., red.; DUGINA, N.A., tekhn.red.

[Design and planned use of dies] Raschet i planirovanie shtampov. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 93 p. (MIRA 12:12)

(Dies (Metalworking))

KAMENSHCHIKOV, Grigoriy Georgiyevich; KOLTUN, Sergey Ivanovich, inzh.; NAUMOV, Vasiliy Prokhorovich, inzh.; CHERNOBROVKIN, Boris Sergeyevich, inzh.; POLYAKOV, V.P., inzh., retsenzent; KAZARINOV, B.K., inzh., retsenzent; KOM'KOV, A.S., dotsent, red.; DUGINA, N.A., tekhn.red.

[Forging operations] Kuznechnoe proizvodstvo. Izd.3., ispr. i dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 447 p. (MIRA 12:8)

1. Uralmashzavod (for Koltun, Chernobrovkin). 2. Sverdlovskiy zavod transportnogo mashinostroyeniya (for Naumov).
(Forging)

KOLTUN, Sergey Ivanovich; BORINSKIY, Mikhail L'vovich; KATKOV, Leonid Ivanovich; KAZARINOV, Boris Nikolayevich; KATKOV, N.P., inzh., retsenzent; BASSEYN, V.V., inzh., retsenzent; KATKOV, I.S., inzh., red.; YERMAKOV, N.P., tekhn.red.

[Mechanization of minor processes in press forging plants] Malaia mekhanizatsiia kuznechno-pressovykh tsekhov; al'bom chertezhei. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1960. 104 p. (MIRA 14:2)
(Forge shops--Equipment and supplies)

KOLTUN, Sergey Ivanovich; BORINSKIY, Mikhail L'vovich; SYCHEV, A.M., inzh., retsenzent; KOVALENKO, A.V., inzh., red.; DUGINA, N.A., tekhn.red.

[Effecting savings of die steel] Ekonomiia shtampovoi stali. Pod red. A.V.Kovalenko. Moskva, Mashgiz, 1961. 43 p. (MIRA 15:5)

(Dies (Metalworking)) (Tool steel)

KOLTUN, Sergey Ivanovich; RAYTSES, Veniamin Borisovich; MOZHAYSKIY, V.S., inzh., retsenzent; KON'KOV , A.S., dots., red.; DUGINA, N.A., tekhn. red.

[Manufacture and use of dies for drop forging] Izgotovlenie i ekspluatatsiia shtampov dlia goriachei shtampovki. Pod red. A.S.Kon'kova. Moskva, Mashgiz, 1961. 56 p. (Nauchno-populiarnaia biblioteka rabochego kuznetsa, no.14) (MIRA 15:4)

(Dies (Metalworking))

KOLTUN V.I.

15-57-4-4588

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4, p 84 (USSR)

AUTHORS: Yasinskaya, A. A., Koltun, V. I.

TITLE: Dolomite Pseudomorphs After Rock Salt in the Stebnits Series in the Cis-Carpathian Region (Psevdomorfozy dolomita po kamennoy soli v otlozheniyakh stebnitskoy serii Predkarpat'ya)

PERIODICAL: Mineralog. sb. L'vovsk. geol. -o-vo pri un-te, 1956, Nr 10, pp 339-340.

ABSTRACT: Casts of halite crystals have been discovered in clays enriched in Ca and Mg carbonates. They occur chiefly at the boundary between two layers of clay, the combined thickness of which is 0.5 cm to 2 cm. The layers are distinguished from each other by difference in color. At the top of the lower layer and the bottom of the upper layer numerous, variously oriented, yellowish brown cubes, 1 mm to 2 mm across, have been observed.

Card 1/2

KOLTUN, V.I., Cand Geol-Min Sci—(diss) "Lithology of Stebnik Carpathian foothills," deposits of the northwestern part of Soviet ~~Predkarpatiye~~

L'vov, 1958. 16 pp (Min of Higher Education. L'vov State U im Ivan Franko), 150 copies. (KL, 25-58,109)

KOLTUN, V.I.

Carbonate concretions from Miocene deposits of cis-Carpathia.
Geol.zhur. 18 no.4:91-97 '58. (MIRA 12:1)
(Carpathian Mountain region--Concretions)

KOLTUN, Vladimir Ivanovich; TKACHUK, L.G. [Tkachuk, L.H.], prof., doktor geologo-mineral.nauk, otv.red.; CHEKHOVICH, H.Ya., red.izd-va; RAKHLINA, N.P., tekhn.red.

[Lithology of Stebnik sediments in the northwestern part of the Soviet cis-Carpathian region] Litologiia stebnyts'kykh vidkladiv pivnichno-zakhidnoi chastyny Radians'koho Peredkarpattia. Kyiv, Vyd-vo Akad.nauk URSR, 1959. 124 p. (MIRA 12:10)
(Carpathian mountain region--Petrology)

TKACHUK, L.G. [Tkachuk, L.H.]; GURZHIY, D.V. [Hurzhii, D.V.]; KOLTUN, V.I.; RIPUN, M.B.

Progress in petrographic studies of western regions of the Ukraine during the Soviet regime. Pratsi Inst. geol. kor. kop. AN URSR 1:108-117 '59. (MIRA 14:6)
(Ukraine—Petrology)

TKACHUK, L.G. [Tkachuk, L.H.]; GURZHIY, D.V. [Hurzhii, D.V.]; KOLTUN, V.I.

Clay oolites in old sedimentary formations of the Russian Platform.
Geol. zhur. 20 no.2:84-89 '60. (MIRA 14:5)
(Russian Platform--Oolite)

KITIK, V.I. [Kityk, V.I.]; KOLTUN, V.I.

Conference on geological activities of microorganisms. Geol. zhur. 20 no. 4:110-111 '60. (MIRA 14:4)
(Microorganisms)

TKACHUK, L.G. [Tkachuk, L.H.]; KOLTUN, V.I.

Some problems of karst in the gypsum-anhydrite horizon of the Dniester Valley. Geol. zhur. 23 no.4:68-74 '63 (MIRA 17:7)

1. Institut geologicheskikh nauk AN UkrSSR.

GURZHIY, D.V. [Hurzhii, D.V.]; KOLTUN, V.I.

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1. Institut geologii i geokhimii goryuchikh iskopayemykh AN UkrSSR.

KOLTUN, V.I.; SEN'KOVSKIY, Yu.N.

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1. Institut geologii i geokhimii goryuchikh iskopayemykh AN UkrSSR. Submitted June 8, 1964.

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1. Institut geologii i geokhimii goryuchikh iskopayemykh AN UkrSSR, L'vov.

KOLTUN, V. M.

Dissertation: "Cornacuspongida of the Northern and Far Eastern Seas of the USSR." Cand Biol Sci, Inst of Zoology, Acad Sci USSR, Moscow, Oct-Dec 53. (Vestnik Akademii Nauk, Moscow, Jun 54)

SO: SUM 318, 23 Dec 1954

KOLTUN, V.M.

AKUMUSHKIN, I.I.; BARANOVA, Z.I.; BRODSKIY, K.A.; VIRKETIS, M.A.; VOLODCHENKO, N.I.; GALKIN, Yu.I.,; GUR'YANOVA, Ye.F.; DOGEL' V.A.; D'YAKONOV, A.M.; ZEVINA, G.B.; IVANOV, A.V.; KIR'YANOVA, Ye.S.; KOBYAKOVA, Z.I.; KOLTUN, V.M.; KONZHUKOVA, Ye.D.; KOROTKEVICH, V.S.; KLYUGE, G.A.; LOZINA-LOZINSKIY, L.K.; LOMAKINA, N.B.; NAUMOV, D.V.; PERGAMENT, T.S.; PESHETNYAK, V.V.; SAVEL'YEVA, T.S.; SKARLATO, O.A.; SOKOLOV, I.I.; STRELKOV, A.A.; TARASOV, N.I.; USHAKOV, P.V.; SHCHEDRINA, Z.G. YAKOVLEVA, A.M.; USHAKOV, P.V., obshchiy rukovoditel'; PAVLOVSKIY, Ye.N., akademik, redaktor; STRELKOV, A.A. redaktor; BRODSKIY, K.A., redaktor; ARONS, R.A., tekhnicheskiy redaktor.

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1. Akademiya nauk SSSR. Zoologicheskiy institut.
(Soviet Far East--Invertebrates)

KOLTUN, V.M.

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(Okhotsk, Sea of--Sponges) (Bering Sea--Sponges)

KOLTUN, V.M.

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1.Zoologicheskiy institut AN SSSR.
(Sponges)

KOLTUN, V.M.

Horny sponges (Cornacuspongida) in the region of the southern Kurile Islands and waters washing southern Sakhalin. Issl. dal'nevost. mor. SSSR no.5:42-77 '58. (MIRA 12:3)
(Sakhalin--Sponges) (Kurile Islands--Sponges)

KOLTUN, V.M.

Spicule analysis as a method of micropaleontological research.
Paleont.shur. no.3:148-150 '59. (MIRA 13:4)

1. Zoologicheskiy institut Akademii nauk SSSR.
(Paleontological research)

LINDBERG, G.U.; SHCHEDRINA, Z.G.; DOGEL', V.A.; RESHETNYAK, V.V.; STRELKOV, A.A.; KOLTUN, V.M.; NAUMOV, D.V.; IVANOV, A.V.; BYKHOVSKIY, B.Ye. ZHUKOV, Ye.V.; PERGAMENT, T.S.; KOROTKEVICH, V.S.; USHAKOV, P.V.; KLYUGE, G.A.; ANDROSOVA, Ye.I.; GOSTILOVSKAYA, M.G.; BRODSKIY, K.A.; GUSEV, A.V.; TARASOV, N.I.; GUR'YANOVA, Ye.F.; VAGIN, V.L.; LOMAKINA, N.B.; BULYCHEVA, A.I.; KOBYAKOVA, Z.I.; LOZINO-LOZINSKIY, L.K.; YAKOVLEVA, A.M.; GALKIN, Yu.I.; SKARLATO, O.A.; AKIMUSHKIN, I.I.; D'YAKONOV, A.M.; BARANOVA, Z.I.; SAVEL'YEVA, T.S.; SKALKIN, V.A.

List of the fauna of marine waters of southern Sakhalin and southern Kuriles. Issl.dal'nevost.mor.SSSR no.6:173-256 '59. (MIRA 13:3)

1. Zoologicheskiy institut AN SSSR.
(Sakhalin--Marine fauna)
(Kurile Islands--Marine fauna)

KOLTUN, V.M., kand. biol. nauk

Collection of sponges gathered by the Soviet Antarctic Expedition during 1955-1958. Inform. biul. Sov. antark. eksp. no.8:28-31 '59. (MIRA 13:3)

1.Zoologicheskiy institut AN SSSR.
(Antarctic regions--Sponges)

KOLTUN, V.M.

Spicule analysis and its use in geology. Izv. AN SSSR. Ser. geol. 25 no.4:96-102 Ap '60. (MIRA 13:11)

1. Zoologicheskiy institut AN SSSR, Leningrad.
(Sponges, Fossil)

KOLTUN, V.M.

Papers submitted for the 10th Pacific Science Congress, Honolulu, Hawaii 21 Aug-6 Sep 1961.

[illegible], A.G., [illegible], A.A., and [illegible], E.S., Moscow State University, Physical Faculty, Chair of Marine Physics and Terrain Waters - "On the calculation of rate of radioactivity spreading in depths" (Section VII.B.6)

[illegible], V.M., Institute of Zoology - "The method of spicule analysis and its possibilities of its use in paleogeographical studies of the Pacific Ocean" (Section III.C)

[illegible], Ye.V., Institute of Geology - "Distribution of spores and pollen of terrestrial plants in beton sediments of the Pacific" (Section III.A)

[illegible], T.G., Director, Institute of Oceanology - "The heat exchange between the Antarctic waters and the adjacent oceanic waters" (Section VII.B.1)

[illegible], M.V., Institute of Oceanology - "An example of the investigation of the deep currents in the northeastern Pacific" (Section VII.B)

[illegible], M.V., and [illegible], O.A., Institute of Oceanology - "The interrelation between turbidity, phytoplankton and primary production" (Section III.C.4)

[illegible], M.K., Institute of Oceanology - "On the relation between water transparency and the character of currents in some areas of the Pacific Ocean" (Section VII.D)

[illegible], Irina P., [illegible], V.N., [illegible], R.A., [illegible], S.M., [illegible], M.I., and [illegible], B.I., Institute of Earth Physics - "Structure of the earth crust in the transition zone from the northwestern part of the Pacific to the Asiatic continent" (Section VII.C.2)

[illegible], Irina P., [illegible], R.M., and [illegible], S.M., Institute of Earth Physics [illegible] O. Yu. Schmidt - "Specific features of the sedimentary layer in the Okhotsk Sea and in the adjacent parts of the Pacific" (Section VII.C.2)

[illegible], V.M., [illegible], G.B., [illegible], Ye.F., The Siberian Department of the Academy of Sciences USSR - "On the results of investigations of tsunami in the USSR" (Section V.B.1)

[illegible], V.V., Institute of Oceanology - "Hydrological data involved with oceanic troughs in the Pacific and some problems connected with prospect research" (Section VII.B)

[illegible], M.G., Institute of Mineology - "Once more on the Ainu problem" (Section II.D)

[illegible], A.P., Institute of Oceanology - "The composition of organic suspended material in the Pacific in connection with the problems of sedimentation" (Section VII.C.1)

[illegible], A.P., Institute of Oceanology - "Bottom sediments in the Antarctic" (Section VII.D.1)

[illegible], V.V., Institute of Oceanology - "Cyclonic activity and climatological fronts in the northern part of the Pacific Ocean" (Section VII.A)

[illegible], E.G., All-Union Scientific Research Institute of Marine Fishing and Oceanography - "Some results of ichthyological investigations in the gulf of Alaska" (Section III.C)

[illegible], V.A., Moscow State University, Physical Faculty, Chair of Geophysical data and the problem of the origin of the Pacific Ocean" (Section VII.C.2)

[illegible], Ye.M., Institute of Oceanology - "The specific features of beach formation in tidal seas" (Section VII.C.1)

[illegible], O.B., Institute of Oceanology - "Qualitative-quantitative distribution of the lithoral fauna and flora in the northwestern part of the Pacific" (Section III.C)

[illegible], Ivan O., Institute of Oceanology - "The process of [illegible] sedimentation in the areas of the Kuril Isle arc" (Section VII.C.1)

KLEPIKOV, V.V., kand. geogr. nauk; MOROSHKIN, K.V.; BOGOYAVLENSKIY, A.N.; NAZAROV, V.S.; MAKSIMOV, B.A.; ZHIVAGO, A.V.; BRODSKIY, K.A.; KOLTUN, V.M.; ANDRIYASHEV, A.P.; PAKHAREVA, M.M., red.; KOTLYAKOVA, O.I., tekhn. red.

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1. Sovetskaya antarkticheskaya ekspeditsiya, 1955.
(Antarctic regions—Oceanographic research)

KOLTUN, V.M.

Spicules of siliceous sponges from upper Cretaceous deposits of the trans-Ural region and Paleogene deposits of the Northern Urals. Paleont.zhur. no.1:61-69 '61. (MIRA 14:8)

1. Zoologicheskiy institut AN SSSR.
(Muzhi region—Sponges, Fossil)
(Ivdel' region—Sponges, Fossil)

KOLTUN, V.M.

Tetraxonida and Cornacuspongida of the Pacific shoals near Paramushir and Shumshu Islands. Issl.dal'nevost.mor.SSSR. no.8:181-199 '62. (MIRA 15:12)

1. Zoologicheskiy institut AN SSSR.
(Paramushir Island--Sponges) (Shumshu Island--Sponges)

KOLTUN, V.M.

Sponges (Porifera) of the Caspian Sea. Zool.zhur. 41 no.10: 1469-1476 O '62. (MIRA 15:12)

1. Zoological Institute, Academy of Sciences of the U.S.S.R., Leningrad.
(Caspian Sea--Sponges)

KOLTUN, V.M.

Sponges of the Antarctic. Report No.1: Tetraxonida and Cornacuspongida. Issl. fauny morei 2:6-131 '64. (MIRA 17:10)

1. Zoologicheskiy institut AN SSSR.

KOLTUN, V.M.

Hydrobiological work of high-latitude Arctic expeditions on the icebreaker "F. Litke" and the diesel-electrics "Ob'" and "Lena." Trudy AANII 259:5-12 '64.

Study of the bottom fauna of the Greenland Sea and the central part of the Arctic basin. Ibid.:13-78

Sponges (Porifera) collected in the Greenland Sea and in the region north of Spitsbergen and Franz Josef Land by the expeditions on the icebreaker "F. Litke" in 1955, the diesel-electric "Ob'" in 1956 and the diesel-electric "Lena" in 1957 and 1958. Ibid.:143-166 (MIRA 17:12)

DANSKER, V.L.; KAPUSTIN, S.M.; KOLTUN, V.M. (Leningrad)

Experience in the use of endotracheal anesthesia in cerebral angiography. Vop. neirokhir. 27 no.3:24-25 My-Je '63. (MIRA 17:9)

1. Leningradskiy nauchno-issledovatel'skiy neyrokhirurgicheskiy institut imeni Polenova (dir. - prof. V.M.Ugryumov).

KOLTUNENKO, B. I.

7708. Koltunenko, B. I. Stavropol'ye na vsesoyuznoy sel'skokhozyaystvennoy vystavke. Stavropol', KN. IZD., 1954. 56s. s ill. 20sm 5.000 ekz. 55K.-- (55-3882)p 63(064)(47)/ 63st(47.911)

SO: Knizhmaya Letopis', Vol. 7, 1955

LISTVIN, I.; KOLTUNENKO, V.

Introducers of innovations in collective farms. NTO 5 no.5:13 My '63. (MIRA 16:7)

1. Zamestitel' predsedatelya Stavropol'skogo krayevogo pravleniya Nauchno-tekhnicheskogo obshchestva sel'skogo khozyaystva (for Listvin). 2. Chlen Nauchno-tekhnicheskogo obshchestva sel'skogo khozyaystva (for Koltunenko).
(Stavropol' Territory—Collective farms)

ZACZEK, Zenon, inz.; BUTWILOWSKI, Jerzy, inz.; KOLTUNIAK, Alojzy, inz.

Planning the repair method, the repair and start of the 4,7 MW power unit Nr. 2 WTMAG, taken our of operation by a commission of the Electric Power Engineering Association for Lower Silesia. Gosp paliw 11 Special issue no.(95):58 Ja '63.

1. Elektrownia Wroclaw.

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Planning the repair method, the repair and start of the 4,7 MW power unit Nr. 2 WUMAG, taken our of operation for Lower Silesia. Gosp paliw 11 Special issue no.(95):58 Ja '63.

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GELLER, Yu.A.; MOISEYEV, V.F.; KOLTUNOV, A.A.

Heat conductivity of high-speed steels. Metalloved. i term. obr. met. no.9:2-7 S '63. (MIRA 16:10)

1. Moskovskiy stankoinstrumental'nyy institut.

KOLTUNOV, A. G.; RESHETNIKOVA, A.D.; FADEYEVA,M.A.; YESIKOV, M.S. and FILIPPOVA-NUTRIKHINA, Z.L. and PUGACHEV, A.G.
"Materials on the Diagnosis of Toxoplasmosis in Children"

Voprosy toksoplasmoza, report theses of a conference on toxoplasmosis, Moscow, 3-5 April 1961, publ. by Inst Epidemiology and Microbiology im. N. F. Gamaleya, Acad. Med. Sci USSR, Moscow, 1961, 69pp.

KOLTUNOV, B., (Moscow).

Television antenna. Radio no.6:44 Je '53. (MLRA 6:6)
(Television--Antennas)

KOLTUNOV, B.

Radio communication at the platform. Grazhd. av. no.3:30-31 Mr '61.
(MIRA 14:3)

1. Nachal'nik sluzhby radiolokatsii i radionavigatsii Moskovskogo aeroporta Vnukovo.
(Radio in aeronautics)

VORONITSYN, K.I., kand. tekhn. nauk, red.; TIZENGAUZEN, P.E., kand. tekhn. nauk, red.; NADBAKH, M.P., red.; TANTSEV, A.A., starshiy nauchnyy sotr., red.; ABRAMOV, S.A., kand. tekhn. nauk, red.; ABRAMOV, D.A., red.; BOGDANOV, N.I., starshiy nauchnyy sotr., red.; VINOGOROV, G.K., kand. tekhn. nauk, red.; GAVRILOV, I.I., starshiy nauchnyy sotr., red.; GUSARCHUK, D.M., starshiy nauchnyy sotr., red.; D'YAKONOV, A.I., red.; ZAV'YALOV, M.A., kand. tekhn. nauk, red.; ZARETSKIY, M.S., starshiy nauchnyy sotr., red.; KACHELKIN, L.I., starshiy nauchnyy sotr., red.; KISHINSKIY, M.I., kand. tekhn. nauk, red.; KOLTUNOV, B.Ya., starshiy nauchnyy sotr., red.; OSIPOV, A.I., kand. tekhn. nauk, red.; SHINEV, I.S., kand. ekon. nauk, red.

[Materials of the enlarged session of the Scientific Council of the Central Scientific Research Institute for Mechanization and Power Engineering in Lumbering on problems concerning power engineering and the electrification of the lumber industry] Materialy rasshirennoi sessii Uchenogo soveta TsNIIME po voprosu energetiki i elektrifikatsii lesnoi promyshlennosti. Moskva, 1961. 75 p. (MIRA 15:4)

(Continued on next card)

VORONITSYN, K.I.---(continued) Card 2.

1.Khimki.TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i energetiki lesnoy promyshlennosti. 2. Nachal'nik TSentral'nogo byuro tekhnicheskoy informatsii lesnoy promyshlennosti (for Nadbakh). 3. Direktor TSentral'nogo nauchno-issledovatel'skogo instituta mekhanizatsii i energetiki lesnoy promyshlennosti (for Voronitsyn). 4. Uchenyy sovet TSentral'nogo nauchno-issledovatel'skogo instituta mekhanizatsii i energetiki lesnoy promyshlennosti (for D'yakonov). 5. Nachal'nik otdeleniya energetiki i sredstv avtomatizatsii TSentral'nogo nauchno-issledovatel'skogo instituta mekhanizatsii i energetiki lesnoy promyshlennosti (for Zaretskiy).
(Lumbering) (Electric power)

KOLTUNOV, D. V.

"Cementing of the Foundation of Hydraulic Constructions," by A. N. Adamovich and D. V. Koltunov, published by the State Publishing House for Energy, Moscow-Leningrad, 1953

Survey of the problem arising in the utilization of cementing for hydro-technical constructions. A comparison between the different methods of building watertight walls and fundamental rules for their projecting. Advice on the execution of the work and the necessary equipment. The results of observations on the pressure.

XXIX

KOLTUNOV, D. V.

7552 ADAMOVICH, A. N., BALYKOV, A. L., KOLTUNOV, D. V., TEKHNICHESKIYE USLOVIYA NA PROIZVODSTVO GIDROTEKHNICHESKIKH RABOT. TSEMENTATSIYA SKAL'NYKH POROD I GRAVELISTO - GALECHNYKH GRUNTOV V. OSNOV-ANIYAKH I BEREGOVYKH PRIMYKANIYAKH GIDROTEKHNICHESKIKH SOORUZHENIY TU-31-45 (VREMENNYYE). SOST. USESOYUZ PROYEKTNYM IN*TOM "GIDROENERGOPROYEKT". UTV. V. 1954 G. M. - L., GOSENERGOIZDAT, 1954, 80 S. S. CHERT. 20 SM. (M-VO ELEKTROSTANTSIY SSSR. UPR. KAPITAL'NOGO STROITEL'STVA). 2.000 EKZ. 3 R. 30 K. - NA OBOROTE
TIT. L. SOST: A. N. ADAMOVICH, A. L. BALYKOV, D. V. KOLTUNOV
(55-3551) 626.01 / 624.138 (083.78)

SO: KNIZHNAYA LETOPIS--Vol. 7, 1955

KOLTUNOV, D. V.

AID P - 2131

Subject : USSR/Engineering

Card 1/1 Pub. 35 - 20/20

Author : Editorial staff, this journal

Title : Adamovich, A. N. and Koltunov, D. V. Tsementatsiya osnovaniy gidrosooruzheniy (Concreting Foundations of Hydraulic Structures). Gosenergoizdat, 1953. (Book Review)

Periodical: Gidr. stroi., no.3, 48, 1955

Abstract : The book is recommended as a manual for designers and engineers. However, some problems are said to be insufficiently discussed. Several erros are listed and the editorial staff of this journal hope that the second edition of the book will be corrected.

Institution: None

Submitted : No date

KOLTUNOV, G. (Voronezh)

He did not retire ... Sov. profsoiuzy 19 no.8:8-9 Ap '63.
(MIRA 16:6)

(Voronezh—Radio journalism)
(Voronezh—Machinery industry)
(Pensioners—Employment)

AL'TSHULER, Grigoriy Aleksandrovich; LAKHMAN, Boris Nusimovich; SIDOROVICH, Nelli Ivanovna; KOLTUNOV, G.S., retsenzent; OSHEMKOV, N.P., retsenzent; KOLTUNOVA, M.P., red.; BOBROVA, Ye.N., tekhn. red.

[Planning in railroad transportation] Planirovanie na zheleznodorozhnom transporte. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 302 p. (MIRA 14:6)
(Railroads—Management)

KOLTUNOV, I.B., inzhener;LITVAK, L.K., inzhener.

Improving technological processes in preparing blanks for bearing ring manufacture. Mashinostroitel' no.4:26-29 Ap '57. (MLRA 10:5)

(Bearing industry)

KOLTUNOV, I.N.; SINYAGIVSKIY, N.L.; CHERNOV, P.P.; POPOV, Ye.S.;

From readers's letters. Geod. i kart. no.1:76-78 Ja '57. (MLRA 10:3)

1. Nachal'nik otryada No. 67 aero-geodezicheskogo predpriyatiya (for Koltunov) 2. Nachal'nik otryada No. 70 aero-geodezicheskogo predpriyatiya (for Sinyagivskiy) 3. Zamestitel' nachal'nika otryada (for Chernov). 4. Inspektor Otdela tekhnicheskogo kontrolya (for Popov)
(Topographical surveying)

KOLTUNOV, I.N.

Preservation of bench marks. Geod.i kart. no.10:59 O '62.
(MIRA 15:12)

(Bench marks)

3-58-3-2/32

AUTHOR: Koltunov, M.A., Candidate of Technical Sciences

TITLE: The Vuzes as Active Participants in the International Geophysical Year (Vuzy - aktivnyye uchastniki mezhdunarodnogo geofizicheskogo goda).

PERIODICAL: Vestnik Vysshey Shkoly, 1958, Nr 3, pp 9 - 15 (USSR).

ABSTRACT: The article describes in detail the objectives of the International Geophysical Year and the part played by Soviet scientific institutions. The Inter-Departmental Committee guiding the IGY work in the USSR is headed by the Vice-President of the Akademii nauk SSSR (Academy of Sciences USSR) Academician I.P. Bardin. The author deals with the study of the antarctic region, the use of rockets and artificial satellites to probe the upper layers of the atmosphere. Turning to the composition of air at an altitude of 80 - 90 km, the author states that 10 kg of nitric oxide, let into the air at this altitude, produced a bright glow, 3 - 4 km in diameter. This was the result of liberating a considerable amount of energy through recombination of oxygen atoms. The question of utilizing this energy as a source

Card 1/4

of power for aircraft engines, is being discussed in scientific literature. The IGY program also includes the study of ozone and the Leningrad and Moscow universities are participating in the organization of this work. Professor S.F. Rodionov of the Leningrad University constructed a spectrophotometer with light filters, by which interesting data has been received recently on the fluctuations in the quantity of ozone in connection with meteorological factors. Professor A.P. Kuznetsov of the Moscow University has designed a new quartz spectrograph which, like the international standard device of Dobson, determines the quantity of atmospheric ozone and estimates its distribution at different altitudes. The measuring of the thermodynamic parameters of the atmosphere's higher layers by means of devices fixed on rockets is also taking place. At the Tomsk, Rostov and Gor'kiy universities observations are being conducted on the positions of the basic ionospheric layers and their electronic concentration. Solar activity is being studied by the Soviet State Astronomical

Card 2/4

The Vuzes as Active Participants in the International Geophysical Year

place. One of the important questions of modern geophysics and stronomy is the problem of the shifting of latitude and longitude to various points of the Erath's surface.

AVAILABLE: Library of Congress

Card 4/4

OGIBALOV, Petr Matveyevich; KOLTUNOV, M.A., dots.; YERMAKOV, M.S., tekhn. red.

[Problems in the dynamics and stability of shells] Voprosy dinamiki i ustoichivosti obolochek. Moskva, Izd-vo Mosk. univ., 1963. 416 p. (MIRA 16:8)
(Mechanics)

KOLTUNOV, M. A.

PA 242T92

USSR/Mathematics - Elasticity Theory May 52

"Computations of Finite Displacements in Problem of the Flexure and Stability of Plates and Sloping Shells," M. A. Koltunov, Chair of Theory of Elasticity

"Vest Moskov U, Ser Fiz, Mat, i Yest Nauk", No 3, pp 13-28

Analyzes behavior of bent plates under load using method of nonlinear theory, which allows him to follow behavior of plates after loss of stability and to establish the upper and lower limits of stability. Received 15 Jan 52

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KOLTUNOV, M. A.

Elastic Plates and Shells

Calculation of final permutations in a problem on flection and stability of plates and sloping shells. Vest. Mosk. un. 7 no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1953, Uncl.

KOLTUNOV, M. A.

Mathematical Reviews
Vol. 14 No. 10
Nov. 1953
Mechanics

Koltunov, M. A. The bending of rectangular plates taking account of large deflections. Akad. Nauk SSSR. Inženernyĭ Sbornik 13, 3–14 (1952). (Russian)

The author considers a flexible rectangular plate the edges of which do not necessarily remain straight under deformation by arbitrary transverse loading and forces applied in the middle surface. The method is to postulate expansions

$$\phi = \sum\sum A_{mn} U_m(x) V_n(y), \quad w = \sum\sum f_{mn} X_m(x) Y_n(y)$$

for the stress function and sag. The functions U, V, X, Y are chosen to satisfy individually the boundary conditions, and the coefficients A_{mn}, f_{mn} are then determined by a variational method. The author confines his actual calculations to the first approximation $m = n = 1$, and applies the method to constant and uniformly varying load, to finite deflection, and to a plate bent by end loads applied at opposite edges.

L. M. Milne-Thomson (Greenwich).

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KOLTUNOV, M. A.

"Calculation of Flexible Plates and Shells".
Vestn. inzhenerov i tekhnikov, No 3, pp 117-123, 1953

The aurhor briefly presents results of some of his investigations which had been described in earlier articles (Vestn. Mosk. un-ta, ser. Fiz. matem i yest. n., 1952, No 5; Inzh. sb., 1952, Vol 13). He gives formulas and graphs for the calculation of flexible plates and slating shells with positive Gaussian curvature which are subjected to the action of a transverse load and forces in the median surface. (RZhMekh, No, 8, 1955)

SO: Sum No 812, 6 Feb 1956

KOLTUNOV, M. A.

USSR/Physics - Elasticity Theory Sep 53

"Behavior of a Plate After Loss of Stability," M. A. Koltunov, Chair of Elasticity Theory

Vest Mos Univ, Ser Fizikomat i Yest Nauk, No 6, pp 57-62

Considers a rectangular plate which is an elemental cell of an overlap (shell covering) and which is initially subjected to the two-sided action of compressing forces distributed uniformly along the edges before loss of stability. After the plate buckles the stresses on the edges proceed to redistribute themselves, in which case the intensity

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of the load increases in places near the angles and decreases in the central part of the edges. Derives formulas describing this redistribution of stresses. Gives a table showing the values of the parameters of load P_{mn} as a function buckling parameter and ratio of sides.

KOLTUNOV, M.A.

Behavior of a plate after loss of rigidity. Vest.Mosk.un. 8 no.9:57-62 S '53. (MLRA 6:11)

1. Kafedra teorii uprugosti. (Elastic plates and shells)

KOLTUNOV, M.A.

Relationship between "load and bending" for flexible shallow shells. Nauch.dokl.vys.shkoly; fiz.-mat.nauki no.3:102-104 '59. (MIRA 13:6)

(Elastic plates and shells)

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S/055/61/000/003/003/004
D235/D302

10.9100 also 1103, 1327

AUTHOR: Koltunov, M.A.

TITLE: A more exact solution of the stability problem for rectangular panels of flexible shallow shells

PERIODICAL: Moskva. Universitet. Vestnik. Seriya I. Matematika, mekhanika, no. 3, 1961, 37 - 45

TEXT: Most of the problems involved in the non-linear theory of flexible shells are solved using some approximate methods, and as they are very complex, one's efforts are limited to solving the first approximation only which is not satisfactory in many cases. In this paper the author explains the Bubnov-Galerkin method leading to the very accurate solution of the problem of the rectangular panel stability of flexible shallow shells. The problem of convergence for similar cases was studied by M. Kornishin and Kh. M. Mushtari (Ref. 2: Ustoychivost' beskonechno dlinnoy pologoy tsilindricheskoy paneli pod deystviyem normal'nogo ravnomerno davleniya. IZv. KFAN SSSR; seriya fiz-mat.i tekh. nauk, No. 7, 1955)

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who showed that the solution depends on the convergence. The author considers the solution of a problem of bending a shallow shell taking one, two three and four members of the series, approximating the function of bending and stresses. The problem could be reduced to the integration of a system of equations

$$\Phi \equiv \frac{1}{E}\Delta^2\Delta^2\varphi + k_1\frac{\partial^2 w}{\partial y^2} + k_2\frac{\partial^2 w}{\partial x^2} + \frac{\partial^2 w}{\partial x^2}\frac{\partial^2 w}{\partial y^2} - \left(\frac{\partial^2 w}{\partial x\,\partial y}\right)^2 = 0, \quad (1) \qquad (1)$$

$$W \equiv D\Delta^2\Delta^2 w - h\left(k_2\frac{\partial^2\varphi}{\partial x^2} + k_1\frac{\partial^2\varphi}{\partial y^2}\right) - h\left(\frac{\partial^2\varphi}{\partial y^2}\frac{\partial^2 w}{\partial x^2} + \frac{\partial^2\varphi}{\partial x^2}\frac{\partial^2 w}{\partial y^2} - 2\frac{\partial^2\varphi}{\partial x\,\partial y}\frac{\partial^2 w}{\partial x\,\partial y}\right) - g = 0. \quad (2) \qquad (2)$$

where $w = w(x, y)$ - is the sag of the middle point on the surface of the shell; $\varphi = \varphi(x, y)$ - function of the stresses; E = Young's modulus; $D = \frac{Eh^3}{12(1-\mu)^2}$ - the cylindrical rigidity; h - thickness

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