011 A -	c/c+	- fire	
	USSR/Gen	eral Biology. General Hydrobiology. B-6	
	hbs Jour	: Rof Zhur-Biol., No 16, 1950, 71671	
	Author Inst Titlo	: <u>Shkleyev, S. M.</u> : Kuybyshev Medical Institute. : Hydrochomical and Hydrobiological Characte- ristics of Lakes of the Volga River Bottom Lands Within Kuybyshev (Oblast'.	
	\texttt{Ori}_3 Pub	: Tr. Kuybyshevsk. med. in-ta, 1957, 7, 101-104	-
	Abstract	: Studies are reported concerning the results of stationary year-around investigations of the hydrochemical and hydrobiological cycle of the Zelenen'kiy and Pesochnyy Lakes and of field observations in a series of lakes.	
	Card	; 1/1	
-7:			

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CIA-RDP86-00513R001549620015-8

GINZBURG, V.L., redaktor; LEYKIN, G.A., kandidat fis.-mat. nauk, redaktor; CHIKHACHEV, B.M., kandidat fis.-mat. nauk, redaktor; SHKLONSKIY, doktor fis.-mat. nauk; FRADKIN, M.I., redaktor; MAKUNI, Ye. V., tekhnicheskiy redaktor.

> [Proceedings of the Fifth Conference on Problems of Cosmogony; radioastronomy] Trudy piatogo soveshchaniia po voprosam kosmegonii; radioastronomiia. Moskva, 1956, Izd. Akademii nauk SSSR. 567 p. (MLRA 9:5)

1.Soveshchaniye po voprosam kosmogonii.5th, Moscow 1955.2.Chlenkorrespondent AN SSSR (for Ginzburg). (Radio astronomy)

APPROVED FOR RELEASE: 08/23/2000



APPROVED FOR RELEASE: 08/23/2000



WINTOWER, A. I. الحيار بيار المراري والارتيان والمحمور والمحمو الم

Mbr., Inst. Building Technology, Acad. Archtectures, -1944-42-. "Use of Complex Humbers in Solving Problems of Heat Transfer by Plane Thermal Mayes," Dok. AN, 45, NO.3, 1944; "Solving Problems on the Heat Transfer of Flat Heat Mayes with the Aid of Graphs," Zhur. Tekh. Fiz., 12, No. 7, 194°.

SHKLOVER A. M. Heat - Conduction Calculating the heat resistance of walls and roofs in relation to fluctuating outside temperature. Mat. i konstr. No. 4, 1949. Monthly List of Russian Accessions, Library of Congress, August 1952 UNCLASSIFIED 202312054



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SHKLOVER, A.M.

[Heat engineering computations for buildings located in southern U.S.S.R.] Teplotekhnicheskie raschety zdanii, raspolozhennykh na iuge SSSH. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1952. 42 p. (MLBA 6:7)

1. Akademiya arkhitektury SSSR. Nauchno-issledovatel'skiy institut stroitel'-(Air conditioning) noy tekhniki.

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	BLIOGRAPHICAL REPORT AID 200-I			
PHASE I TREASURE ISLAND SIL	Call No. TH 7121547			
BOOK Author: SHKLOVER, A.M. Master of Eng Full Title: THERMAL STABILITY OF BUI Transliterated Title: Teploustoychive Publishing Data Originating Agency: Academy of Archi Institute of Bui Publishing House: State Publishing H Architecture. Date: 1952 Editorial Staff Editor: Dashkevich, L.L. Dr. Eng. Editor-in-Chief: None	. Sci. LDINGS ost' zdaniy tecture, USSR. Scientific Research lding Technology. House of Literature on Building and 167 No. of copies: 3,000			
Text Data Coverage: New methods of determining the thermal stability of buildings are presented exclusively from the physical and mathematical points of view. Heat capacity and conductivity of building parts (doors, windows, walls, <u>etc.</u>) are analyzed in respect to the seasonal, geographic, and solar-angularity variations of the interior and exterior temperatures. Continuous and interrupted heating methods are outlined as a function of the mean amplitude of composed 1/2				
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SHKLOVER, Aron Mikhaylovich; VASIL'YEV, Boris Fedorovich; USHKOV, Fedr Vasil'yevich; KAUFMAN, B.N., kandidat tekhnicheskikh nauk, nauchnyy redaktor; BORODINA, I.S., redaktor izdatel'stva; PERSON, M.N., tekhnicheskiy redaktor

> [Principles of heat engineering as applied to construction] Osnovy stroitel'noi teplotekhniki zhilykh i boshchestvennykh zdanii. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 349 p.(MLRA 9:11) (Heat engineering)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620015-8"



SHKLOVER, A.M.

The temperature regime in a room under different heating systems. Vod.i san.tekh. no.3:1-4 Mr '56. (MLRA 9:7) (Heating) Contractor and the Contractor

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PHASE I BOOK EXPLOITATION

SOV/5720

Shidover, Aron Mikhaylovich

Teglloperedacha pri periodicheskikh teplovykh vozdeystviyakh (Heat Transfer During Recurrent Thermal Reactions) 2nd ed., rev. and enl. Moscow, Obsenergoizdet, 1961. 159 p. Errata slip inserted. 7000 copies printed.

Ed.: K. D. Voskresenskiy; Tech. Ed.: G. Ye. Larionov.

- PURPOSE: This book is intended for engineers, students, and scientific workers interested in problems of heat transfer.
- DYNAGE: The book describes a simple method developed by the author for the salculation of flat heat waves in multilayer walls. This method can be used for solving technical problems connected with the variation of temperatures and heat flows in various types of walls and in closed spaces limited by walls. Directions are given for the use of simplified approximate

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(MIRA 13:3)

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GULAMOV, R.G.; ZAYKO, G.I.; ZOTOV, A.N.; ISADZHANOVA, Kh.K.; SOKOLOV, Yu.A.; SHKLOVER, A.Ya.; TSUKERMAN, M.P.; USTIMENKO, I.L., red.; BAKHRIYAROV, A., tekhn.red. [Tashkent; concise reference book] Tashkent; kratkii spravochnik. Izd.2., dop. Tashkent, Gos.izd-vc Uzbekskoi SSR, 1958. 190 p.

(Tashkent--Guidebooks)





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Shinekal, D. A.	E é	A 75T3C	
	May 1948		
	Lemps, Mercury		
	Lamps, Quartz	•	
	"The Stability of Radiation of Mercury Quartz Lamps PRK-2 and PRK-4," D. A. Shklover, All-Union Elec Eng Inst, 3 pp		~
	"Zavod Lab" Vol XIV, No 5		
	Working life of these lamps is 1000 hours. Described measurements of relative power and wave lengths for various hours of service. Shows results graphically		
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9

SHKLOVER, D. A.

USSR/Engineering - Control Equipment May 51 "Universal Photoelectric Colorimeter VEI," D. A. Shklover, P. S. Loffe, VEI (All-Union Elec Eng Inst imeni V. I. Lenin) "Iz Ak Nauk SSR, Otdel Tekh Nauk" No 5, pp 667-681 Describes new photoelec colorimeter developed in VEI Instr permits measurements of light and color intensity and color temp of light-source radiation, and measurements of refraction and reflection coeffs of various transparent and opaque materiels. Colorimeter is now used in laboratories of plants and sci res institutes. Submitted by Acad V. S. Kulebakin. 182T62

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CIA-RDP86-00513R001549620015-8

HKRENER, D.A HUNGARY/Optics - Physical Optics. K-5 Abs Jour : Referat Zhur - Fizika, No 3, 1957, 7769 Author Shklover. : Inst Title : Investigation of Optical Properties of Luminophors of Cathode-Ray Tubes. Orig Pub : Meres es automatika, 1955, 3, No 7, 211-214 Abstract : No abstract. Card 1/1 - 57 -ShKLOVER, D.A. USSR/E1APPROVED FOR RELEASE PO8/23/2000 toce 1A-RDP86-00513R001549620015-8 Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35220 Author: Dorf, O. P., Kokina, N. G., Lifshits, T. M., Shklover, D. A. Institution: None Title: Photocells and Photomultiplier with Magnesium Photocathodes for Recording Ultraviolet Radiation Original Periodical: Radiotekhnika i elektronika, 1956, 1, No 1, 106-113 Abstract: Up to 250 vacuum photocells with magnesium photocathodes, intended for operation in the ultraviolet region (from approximately 3500 A) have been prepared and tested. A reproducibility of the spectral characteristic from specimen to specimen of approximately 10% was attained. A magnesium photomultiplier with low dark current was also prepared, making it possible to record radiation fluxes up to 10⁻¹⁵ watt at $\lambda = 2537$ A. Card 1/1

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CIA-RDP86-00513R001549620015-8

USSR/Optics - Photometry. Colorimetry.

K-10

Abs Jour : Referat Zhur - Fizika, No 3, 1957, 8090

corresponding units. This is effected by changing the light filters. After a single stage of pointer microammotor M-24 with a range of 100 μ amp. The sensitivity can be varied by a factor of 1,000 using input resistances of the amplifier. Also developed were the instru-ments UFM-5 and UFM-6, which employ circuit with chargestorage using a capacitor. They are equipped with magnesium and Sb-Cs photocells. The electric circuit of the UFM-5 is given. This instrument measures very small intensities, both integral (with respect to time) and averaged over 15 -- 20 seconds. The sensitivity of the instruments is 0.5 w/cm^2 .

Card 2/2

- 131 -
| "APPRO | /ED FOR RELEASE: 08/23/2000 | CIA-RDP86-00513R001549620015-8 |
|-------------|--|--|
| BARIC | 5 · C., D. A. | |
| SUBJECT: | USSR/Luminescence | 48-4-45/48 |
| AUTHORS: | Shklover D.A. and Ioffe R.S. | |
| TITLE: | Methods and Devices for Measuri
pribory dlya izmereniya lyumine | ng Luminescence (Metody i
stsentsii) |
| PERIODICAL: | Izvestiya Akademii Nauk SSSR, S
Vol 21, #4, pp 619-622 (USSR) | eriya Fizicheskaya, 1957, |
| ABSTRACT: | Engineering Industry, has devel | nescence with respect to its |
| | Selenium protocells and photoel | ectronic multipliers with bis- |
| | for measuring brightness, lumen | output and color of fumino- |
| Card 1/2 | A special colorimeter was const | |
| | | |
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| | | |
| | | 48-4-45/48 |
| TITLE | pribory dlya izmereniya lyumine: | stsentsii) |
| | The accuracy of determination of amounts to 0.005. Lumen output racy of 2 to 3 $\%$. | color relative components
is determined with an accu- |
| | devices. television colorimeters
tion with the problems of color
uses a pnotoelectronic multiplic
cethode as a radiation receiver | s of the TK-1 type, in connec-
ad television. This device
ar FEU-13 with bismuth-cesium
. It can be used also as a |
| | SWALL
SUBJECT:
AUTHORS:
TITLE:
PERIODICAL:
ABSTRACT:
Card 1/2 | AUTHORS: Shklover D.A. and Ioffe R.S. TITLE: Methods and Devices for Measuring
pribory dlya izmereniya lyumines PERIODICAL: Izvestiya Akademii Nauk SSSR, S.
Vol 21, #4, pp 619-622 (USSR) ABSTRACT: VNISI, the All-Union Scientific
Engineering Industry, has devel
measuring the radiation of lumi
brightness, lumen output, color
Selenium pnotocells and photoel
muth-cesium cathode are applied
receivers. Universal photoelectric colorim
for measuring brightness, lumen
phores for luminescent tubes an
A special colorimeter was const
tion of luminescent tubes. Its TITLEAPPROVEDEEDR RELEASE: 08/23/2600 rin
pribory dlya izmereniya lyumines
The accuracy of determination of
amounts to 0.005. Lumen output |

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85206 S/035/60/000/010/008/021 A001/A001

7.6/50 Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 10, pp. 22-23, # 9913

AUTHORS: Shklover, D. A., Faynberg, I. S. TTTLE: Cathode-Ray Spectrophotometers γ

PERIODICAL: Fiz. sb. L'vovsk. un-t, 1958, No. 4 (9), pp. 139-143

TEXT: A spectrophotometer was constructed in which a cathode-ray tube is employed as a recording device. A spectrograph serves as a dispersion device; the exit slit is mounted in the plane of the spectrograph plates. The exit slit, together with the receiver, slides along a special carriage. All this is mechantogether with the slide of a variable resistance switched in a rheostat ically connected with the slide of a variable resistance switched in a rheostat circuit. The output voltage is described by the expression:

CIRCUIT. The capacity $u = E \left[1 - R_2/(R_2 + R_1 - r)\right]$. This relation coincides with Hartmann's formula in its form. Making use of this coincidence, it is easy to obtain the linear dependence of the wavelength scale,

Card 1/2

APPROVED FOR RELEASE: 08/23/2000

8 **5206** \$/035/60/000/010/008/021 A001/ACO1 Cathode-Ray Spectrophotometers switching this voltage to the horizontal plates of an oscillograph. Spectrum is recorded in 10 - 30 sec. A photomultiplier serves as a receiver. 0. Dmitriyevskiy Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

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INTERNALIZZARIA CARACTERIA DE LA CONTRA DE LA

DORF, O.P.; RYMOV, A.I.; SHKLOVER, D.A.

Spectral characteristics of sources and receivers of ultraviolet radiation. Fiz.sbor. no.4:190-195 '58. (MIRA 12:5)

1. Vsesomiznyy nauchno-issledovatel'skiy svetotekhnicheskiy institut.

(Spectrum, Ultraviolet)

APPROVED FOR RELEASE: 08/23/2000

人名杜利斯博勒 法部分学校会

SHELKOVA-DORF, O.P., kand.tekhn.nauk; SHKLOVER, D.A., kand.tekhn.nauk; YAKOVLEVA, I.F. Heasuring natural ultraviolet radiation. Svetotekhnika 4 no.ll;20-23 N '58. (MIRA 11:11)
1. Vsesoyuznyy svetotekhnicheskiy institut (for Shelkova-Dorf, Shklover).
2. Yevpatoriyskaya bioklimaticheskaya stantsiya (for Yakovleva) (Ultraviolet rays--Measurement)

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CIA-RDP86-00513R001549620015-8

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15(7) AUTHOR:	Yustova, Ye.N.	sov/72-58-12-23/23	
TITLE:	Conference on Problems of Measuring the Whitene (Soveshchaniye po voprosam izmereniya belizny i		
PERIODICAL:	Steklo i keramika, 1958, Nr 12, pp 48-48 (USSR))	
ABSTRACT:	In the current year, the Vsesoyuznyy nauchno-is institut metrologii imeni Mendeleyeva (All-Unic search Institute of Metrology imeni Mendeleyev) pation of representatives of interested organiz extended session of the Postoyannaya komissiya Commission at the VNIMM(), which dealt with pro- ness measurement. The following reports and inf Ye.N. Yustova on methods of whiteness measurement D.A. Shklover on an electronic color comparator in the determination of whiteness. V.S. Khazanov on the photometer FT-2 and its ap measurement of whiteness. D.I. Levin reported on the determination of an method of porcelain whiteness. M.M. Gurevich spoke on the stage of the problem ment.	on Scientific Re-), with the partici- zations, held an pri VNIIMe (Permanent oblems of the white- formations were given: ent. r and its application oplication in the expedient measuring	

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Conference on Problems of Measuring the Whiteness of Products SOV/72-58-12-23/23

As a result of the conference it was stated that it is necessary to use either the colorimetric or the spectrophotometric method, according to the purpose for which the whiteness is measured. It was regarded as necessary to organize the series production of the photometer FT-2, the colorimeter KNO, the spherical photometer FM-58, and the photo-electric comparator GOI. The work done by the All-Union Scientific Research Institute of Metrology, the Vsesoyuznyy nauchnoissledovatel'skiy svetotekhnicheskiy institut (All-Union Scientific Photological Research Institute), the Gosudarstvennyy nauchno-issledovatel'skiy keramicheskiy institut (State Scientific Ceramic Research Institute), the Nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti (Scientific Research Institute of Cotton Industry) was appreciated, and its continuation was recommended. The desire was expressed to create in the VNIIM a center which should be equipped with the most up-to-date apparatus for measuring the whiteness in order to help industrial organizations.

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USCOMM-DC-60,515

REPRESENTATION FINAL PROPERTY AND A CONTRACTOR

\$/675/60/000/004/002/005 .. D298/D304 Shelkova, O.P., Shklover, D.A. and Yakovleva, I.F. Experience with measuring natural ultra-violet radia-9,9862 Konferentsiya po biologicheskomu deystviyu ul'trafio-AUTHOR: Konferentsiya po biologicneskomu deystviyu ul'trafio-letovogo izlucheniya. Leningrad, 1958. Ul'trafioleto-voye izlucheniye solntsa i yego ispol'zovaniye diya pro-filakticheskikh i lechehnykh tselev. trudy konferenteii voye izlucheniye solntsa i yego ispol'zovaniye dlya pro-filakticheskikh i lechebnykh tseley; trudy konferentsii. No. 4, Leningrad, 1960, 83-89. At head of title: Mini-sterstvo zdravookhraneniya RSFSR. Institut radiatsion-TITIE: tion SOURCE: TEXT: In 1957 the Nauchno-issledovatel'skiy svetotekhniches-is institut (Scientific Research Institute of Light ing Engi-kiy institut (Yevpatoriyskaya bioklimaticheskaya stantsiya neering) and the Yevpatoriyskaya bioklimaticheskaya stantsiya (Yevpatoriya Bioclimatic Station) measured total and dispersed Card - 1/4 È.

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32143 S/675/60/000/004/002/005 Experience with measuring ... D298/D304 matic light meter. A considerable divergence in the readings was noted, but further study is needed to determine the reason for this divergence. The Institute of Lighting Engineering and the Institut biologicheskoy fiziki AN SSSR (Institute of Biophysics, AS USSR) are using the above-mentioned model as a basis for developing improved recording devices. These use photoelectric multipliers as radiation receivers and register the photocurrent on a 6-point recording electronic potentiometer, thus providing measurement data in various narrow sections of the ultra-violet spectrum for both the total and dispersed components of natural ultra-violet radiation. There are 5 figures. Card 4/4

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GORBACHEV, N.V., kand.tekhn.nauk; GOREV, Z.M., kand.tekhn.nauk; YERMOLINSKIY, N.N., inzh.; FOL'B, R.L., inzh.; KHAZANOV, V.S., kand.tekhn.nauk; SHEFTEL', Ye.B., kand.tekhn.nauk; SHKLOVER, D.A., kand.tekhn.nauk; YUROV, S.G., kand.tekhn.nauk Principal works of professor S.O.Maizel' in the field of lighting

engineering. Svetotekhnika 6 no.7:1-9 Jl '60.

1. Vsesoyuznyy svetotekhnicheskiy institut. (Maizel', Sercei Osipovich, d. 1955) (Electric lighting)

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(MIRA 13:7)

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39210 5/196/62/000/006/008/018 E194/E154

SPACE CHARLES

AUTHORS: Rymov, A.I., and <u>Shikover, D.A.</u> AUTHORS: A photo-electric colour-matching device TITLE: A photo-electric colour-matching device PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.6, 1962, 3, abstract 6 v14. (Svetotekhnika, no.10, 1961, 14-20). TEXT: Electric colour-matching device type $\exists K \sqcup -1$ (EKTs-1) is based on the principle of measuring the logarithm of the is based on the principle of measuring the logarithm are being

is based on the principle of measuring the logarithm of the ratio of the photoelectric currents obtained during the reflection (or transmission) of light from the two specimens which are being compared. The device consists of a radiation receiver type (FETS-27) with bismuth-silver-caesium cathode, an The light amplifier, detector, and a measuring instrument. The light source is an incandescent lamp type CLI -70 (STS-70), operating as source A with a colour temperature of 2854 OK. The following filters are fitted to two rotating discs: 2 for measuring the filters are fitted to two rotating discs B and C) and 3 for colour temperature of the lamps (sources B and C) and 3 for the reference and the measured samples are illuminated in turn Card 1/3

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s/196/62/000/006/008/018 A photo-electric colour-matching ... E194/E154 at an angle of 9° by light modulated at a frequency of 20 c/s (a double beam optical system with a single light source). The current is generated in the form of rectangular impulses. The electronic circuit takes the logarithm of the photo-current and amplifies the alternating component, which is detected by a full-wave phase-sensitive detector. The voltage at the detector output is measured by a microammeter and the instrument reading is proportional to the logarithm of the ratio of the colour coordinates of the reference and the sample. The accuracy of measurement is as follows: for colour coordinates 0.0001-0.0005; for difference between reflection coefficients of specimens up to 0.01%, for surfaces of any colour with reflection factor equal to or greater than 1%. The following coordinate systems log α , log β (log α = log $\frac{x_H}{y}$; log β = log $\frac{z}{y}$) and are proposed: $\triangle \log \alpha$, $\triangle \log \beta$ ($\triangle \log \alpha = \log \alpha_{specimen} - \log \alpha_{standard} = V_{\alpha}$; $\triangle \log \beta = \log \beta_{\text{specimen}} - \log \beta_{\text{standard}} = V_{\beta}$. Card 2/3

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In state of the second states and the second states and the second states and the second states and the second SHKLOVER, F.Ya., inzhener. Sectoral property illumination in blueprint work. Systematica 3 (PERA 10:8) no.2:15-19 4g 15%. 1. Institut poligraficheskogo mashinostrovenive. (Bive printing) 3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549620015-8"

ENERGY CONTRACTOR OF A CONTRAC

SOV/112-59-5-10337 Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 273 (USSR) 23(3) AUTHOR: Shklover, F. Ya TITLE: Uniformity of Illumination and Utilization Factors of Lighting Outfits for Copying Work PERIODICAL: Sb. tr. N.-i. in-t poligr. mashinostr., 1957, Nr 3, pp 93-105 ABSTRACT: Various arrangements of luminaires over a copying frame are compared as to uniformity of illumination and lighting-outfit utilization factor. Examination shows that illuminating the frame by a single light source placed over its center is the poorest arrangement. Lighting the frame by 4 sources considerably improves the illumination uniformity. It is noted that reciprocal or circular motion of the sources used in many cases does not result in a better uniformity than that obtainable from 4 fixed sources. It is mentioned that in cases where arc lamps are used without reflectors, the utilization factor of the lighting outfit is under 10%. An experimental investigation of the Card 1/2

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	SOV/112-59-5-1033?
. Uniformity of Illumination and Utilization Factors of	Lighting Outfits for
influence of exposure upon gradation characteris that a + 30% nonuniformity of illumination of the	
the print quality.	
	A.A.M.
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SHKLOVER, F. Ya., Candidate Tech Sci (diss) -- "Problems of illumination with copying processes in polygraphy". Moscow, 1959. 20 pp (Moscow Power Engineering Inst), 150 copies (KL, No 24, 1959, 143)

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这次的资源,我们就是我们的资源,我们就是我们的。 第一个学校,我们就是我们的你们的。

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SOV/96-58-9-8/21 Polikovskiy, M.V. (Candidate of Technical Science) and AUTHORS: Shklover, G.G. (Engineer) An Experimental Investigation of Steam-jet Ejectors TITLE: (Eksperimental'noye issledovaniye parostruynykh ezhektorov) Teploenergetika, 1958, Nr 9, pp 46 - 51 (USSR) PERIODICAL: ABSTRACT: Between 1954 and 1957 the laboratory of the Kaluga Turbine Works has made detailed tests on a number of two-stage steam-jet ejectors used on the condensers of low- and medium-power turbine sets. As a result of the tests and of improvements in the design of the coolers a series of very efficient ejectors was developed. The tests were made whilst extracting dry air and steam/water mixture over a wide range of working conditions. The profile of the flow part of the ejectors is illustrated schematically in Fig 1 and the leading dimensions are given in Table 1. Throughout the tests the steam delivered to the nozzles was at a pressure of 16 atm and a temperature of 220 - 250°C. The tests showed that the shape and length of the inlet section have a most important influence on the performance of the ejector, as indicated by the characteristics plotted in Fig 2. The best ratio of the length of inlet section Card 1/4

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CIA-RDP86-00513R001549620015-8

507/96-58-9-8/21 An Experimental Investigation of Steam-jet Ejectors to throat diameter is about six, as will be seen from Fig 3; if this ratio is reduced to about 3.6 the performance is In the ejectors tested, the ratio appreciably impaired. of the length of the cylindrical part to its diameter was 3 - 4.5, and the diffuser angle was 8 - 10 degrees. The influence of the ratio of the area of the throat to that oi The best values of this ratio the nozzle was also studied. and of the corresponding ejection factor are plotted in Test results for the second stages were presented Fig 4. in the form of a family of such curves for constant values of inlet pressure. Experimental curves of the kind given in Fig 4 are valid only if the conditions are very close to those used in the tests, but they can be expected to apply well enough to ejectors similar to those tested. The amount by which the output of the second stage should be greater than that of the first is discussed. With each stage tested, determinations were made of the limiting backpressure as a function of the area ratio; and the results Card 2/4 are graphed in Fig 5. The main dimensions of the flow parts which were used in the design of the new ejector

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SOV/96-58-9-8/21 An Experimental Investigation of Steam-jet Ejectors

type E0-30 are recorded in Table 1 line 11 (first stage) and line 14 (second stage). Their characteristics are given in Fig 7. The efficiencies are appreciably greater than those of other ejectors, for example type EP-2-400 of the Leningrad Metal works. The main reason for the improvement is the greater length of the inlet section and the reduced angle of it. In addition to the above considerations the efficiency of an ejector depends very much on the performance of the coolers. The screw-type heat-exchangers used by the Kaluga Turbine works are very efficient and, as will be seen from Fig 8, this makes the new-type ejector still more efficient than the old. The heat-transfer coefficient of the screw-type heat-exchangers is up to 1500 kcal/m²hour/^oC, which is between three and five times higher than usual, so that the equipment can be made small and light. Ejector type EO-30 is intended for use with turbine set type AP-6 of 6000 kW. A cross-sectional drawing of the complete assembly appears in Fig 9 and the construction is described. Card 3/4 The main characteristics are given in Table 2. Although the output is much the same as that of ejectors types E-1-B

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SHKLOVER, G.G., kand. tekhn. nauk

Generalized experimental data on steam condensation in helical KTZ heat exchangers in a vacuum. Trudy MEI no.63:203-220 '65. (MIRA 18:12)

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PLYUSHCHEV, V.Ye.; MARKINA, I.B.; SHKLOVER, L.P.

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Diagrams of phase conversions in binary systems formed by rubidium and cesium nitrates 'ith strontium and barium nitrates. Zhur.neorg.khim. 1 no.7:1613-1618 J1 '56. (MLRA 9:11)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova

(Thermal analysis) (Nitrates)

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AUTHORS:	$\underline{A11 k berov_9 \ S_3 \ S_7, \underline{U}}_{0} = \underline{B004/B002}$
TITLE:	The Production of High-purity Silicon Y
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 3, pp 513 - 518 (USSR)
ABSTRACT :	After a short survey of the properties of silicon chlorides and the methods known for their reduction (Table 1), the authors state that <u>trichlorosilane</u> can most easily be reduced by hydrogen. Figure 1 shows the temperature dependence of the equilibrium con- stant for the reactions $SiHCl_3 + H_2$ and $SiCl_4 + 2H_2$ (according to data by A. I. Mel'nikov, Ref 4). According to it, SiHCl_3 can be reduced to elementary Si more easily than $SiCl_4$. The authors de- scribe the synthesis of $SiHCl_3$ from industrial silicon type KR=0 at 290° (Refs 8,9) by the influence of hydrogen chloride, the rectifi- cation of $SiHCl_3$ and the quartz apparatus in which $SiHCl_3$ was re- duced by hydrogen, carefully cleaned from 0_2 and H_20 (Fig 2). In a stoichiometrical relation between $SiHCl_3$ and H_2 , the silicon yield is
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690山 s/078/60/005/03/001/048 The Production of High-purity Silicon B004/B002 very low due to side reactions. As is shown by figure 3, the yield can be increased by a hydrogen excess. Figure 4 shows the dependence of the yield on the silicon temperature, figure 5 its dependence on the flow velocity of the mixture in the reaction zone, and figure 6 the temperature distribution in the reaction vessel. The optimum conditions were: 60-70-fold hydrogen excess, 1050°, rate of 80 cm/sec. Figures 7-9 show samples of the silicon obtained. Figure 10 shows a single crystal of silicon, obtained according to Chokhral'skiy's method. The large hydrogen excess can be used in a second apparatus connected in series. The yield in the second apparatus was lower by 20 - 25% (Table 2) due to the presence of HCl. Further use of the hydrogen in a third apparatus, therefore, is only possible after HCl has been removed. There are 10 figures, 2 tables, and 10 references, 5 of which are Soviet. July 25, 1958 SUBMITTED: Card 2/2

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620015-8

s/078/60/005/010/008/021 B004/B067

AUTHORS: <u>Alikberov, S. S.</u>, <u>Shklover, L. P.</u>, <u>Syromyatnikova, A. S.</u> <u>Belanovskiy, A. S.</u> TITLE: Use of <u>Acetonitrile</u> as <u>Complex-forming</u> Substance in the Purification of SiCl₄ and SiHCl₃

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 10, pp. 2258-2260

TEXT: The authors checked the data from Refs. 6,7 according to which impurities can be easily separated from silicon tetrachloride and trichlorosilane by means of acetonitrile. They found that this applies for SiCl₄ because a mixture of SiCl₄ and CH₃CN is separated into two layers

(Fig.). SiCl₄ takes up 2 wt% of CH₃CN which must be removed by (Fig.). SiCl₄ takes up 2 wt% of CH₃CN which must be removed by fractional distillation. Since, however, an azeotropic mixture boiling at 49-50°C is formed, this method leads to considerable losses in SiCl₄. The data of Refs. 6,7 do not apply for SiHCl₃. SiHCl₃ and CH₃CN are mixible at any ratio. This is also confirmed by the polarity of these

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Use of Acetonitrile as Complex-forming Substance in the Purification of SiCl_4 and SiHCl_3 $\,$

S/078/60/005/010/008/021 B004/B067

compounds (Table 1). Hence, the authors used the capability of acetonitrile of forming complexes with metal salts to purify silicon chlorides. They added only 1-2 vol% of acetonitrile and achieved good purification by fractional distillation. The residue contained the complexes of acetonitrile with Al, Fe, Cu, Mg, Mn, and Ti. Table 2 shows the purification of SiHCl₃ obtained herewith. The complex formation of CH₃CN with iron was examined also by means of Fe⁵⁵. Activity was measured with an $\underline{MCT-17}$ (MST-17) counter of a $\underline{B}-2^{2}$ (B-2) apparatus (Table 3). Formamide was successfully applied instead of acetonitrile. With iron, hydrocyanic acid which is formed in this case forms nonvolatile compounds. The results of experiments with formamide and Fe⁵⁵ are given in Table 4. There are 1 figure, 4 tables, and 11 references: 6 Soviet, 1 US, 3 German, and 1 Polish.

SUBMITTED: July 10, 1959

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CARGER STREET

PLYUSHCHEV, V.Ye.; SHAKHNO, I.V.; SHKLOVER, L.P.

Interaction of minerals containing rare alkaline elements with salts and oxides during sintering and melting. Part 8: Reactions taking place in the interaction of spodumene with a mixture of calcium carbonate and chloride. Izv.vys.ucheb.zav.; khim.i khim. tekh. 5 no.l:133-140 '62. (MIRA 15:4)

Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
 Lomonsova, kafedra tekhnologii redkikh i rasseyannykh elementov.
 (Spodumene) (Lithium chloride) (Calcium carbonate)

APPROVED FOR RELEASE: 08/23/2000



APPROVED FOR RELEASE: 08/23/2000
PLYUSHCHEV, V. Ye.; SHKLOVER, L.P.; SHKOL'NIKOVA, L.K.

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Composition and structural data of the formates of elements in the lanthanum-holmium series. Zhur. strukt. khim. 5 no.5: 794-796 S-0 '64 (MIRA 18:1)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova i Institut khimicheskikh reaktivov i csobo chistykh veshchestv.

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PLYUSHCHEV, V.Ye.; SHKLOVER, L.P.; ROZDIN, I.A.

Synthesis of the phthatocyanins of zirconium and hafnium. Zhur.neorg. khim. 9 no.1:125-127 Ja '64. (MIRA 17:2)

APPROVED FOR RELEASE: 08/23/2000

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ACCESSION NR: AP4009348 S/0078/64/009/001/0	125/0127
AUTHOR: Plyushchev, V. Ye.; Shklover, L. P.; Rozdin, I. A.	35
TITLE: Synthesis of <u>zirconium</u> and <u>hafnium</u> phthalocyanins η η η SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 1, 1964, 12	Б 5-127
TOPIC TAGS: zirconium phthalocyanin, zirconium phthalocyanin s zirconium phthalocyanin purification, zirconium phthalocyanin abs spectra, hafnium phthalocyanin, hafnium phthalocyanin synthesis, h phthalocyanin purification, hafnium phthalocyanin absorption spect	nafnium
ABSTRACT: Zirconium and hafnium phthalocyanins having the con C _{32H15N8} Cl. Me(OH) ₂ · 2H ₂ O, where Me=Zr, Hf, are prepared by α -phthalonitrile with the metal tetrachloride (4:1 molar ratio) at 1 (ZrOCl ₂ · 8H ₂ O practically does not react with phthalonitrile). The are stable; the crude pigments can be purified by reprecipitating f	270-190C compounds
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from the concentrated H	$_{2}$ SO ₄ . Absorption spectra for	solutions of Zr and Hf	
range are presented: th	bromonaphthalene in the 400 - e maximum wave length absor	ption bands are at	
603 & 691 regrectively.	"I. F. Zakharchenko & T. A	. Trushina participate	d
in the experimental part	ot the work." Orig, art. has	s; I ligure and I table	
ASSOCIATION: None			
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S/0078/64/009/002/0335/0339 ACCESSION NR: AP4012439 AUTHOR: Plyushchev V. Ye.; Shklover, L. P. TITLE: Synthesis of erbium phthalocyanin SOURCE: Zhurnal neorg. khim., v. 9, no. 2, 1964, 335-339 TOPIC TAGS: erbium phthalocyanin, synthesis, yttrium subgroup phthalocyanins, absorption spectrum, pigment, rare earth phthalocyanin ABSTRACT: Erbium phthalocyanin is obtained by heating $ErCl_3 \cdot 5H_2O$ with ophthalonitrile (1:4 molar ratio) to 270-280C. This synthesis is typical for the synthesis of phthaocyanins of the yttrium subgroup. $C_{32}H_{16}N_8 \cdot ErCl \cdot 2H_2O$ is the formula proposed for erbium phthalocyanin, based on elemental chemical analysis of the pigment purified with solvents. The absorption spectrum of erbium phthalocyanin in alpha-bromonaphthalene in the 400-700 millimicron range shows an intense maximum at 667, and a second weaker absorption at 602 millimicrons. "I. F. Zakharchenko, N. A. Dvornikova and T. A. Trushina Card 1/2

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participated in the ex 1 equation.	xperimental work." Orig. art	. has: 2 figures, 1 table ar	nd
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	ACCESSION NR: AP4012440	s/0078/64/009/002/0340/0346	-
	AUTHORS: Shklover, L. P.; Plyushcher	v, V. Ye.	· ·
	TITLE: Synthesis and purification of ins.	f samarium and erbium phthalocyan-	
	SOURCE: Zhurnal neorg. khim., v. 9,	no. 2, 1964, 340-346	
	TOPIC TAGS: samarium phthalocyanin, purification, stability, absorption	erbium phthalocyanin, synthesis, spectrum, labile compound	•
	ABSTRACT: Samarium and erbium phtha ing samarium and erbium formate with and purification of samarium phthalo x-ray and spectrophotometric analyse solvents, show an anomalous metal co the central rare earth element has 1 absorption in alpha-bromonaphthalene was shown that differential heating ly characterize the degree' of purifi from the starting materials, and abs Card 1/2	locyanin were prepared by react- o-phthalonitrile. The synthesis cyanin were studied by thermal, s. These compounds, purified with ntent. The nature of the anion at ittle effect on its phthalocyanin in the visible spectrum. It curves may be used to qualitative-	
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spectral range) of phthalocyanin so naphthalene may be used to detect of thalocyanin or contamination H ₂ •pht H ₂ was shown spectrophotometrically phthalocyanin solutions in alpha-br tating erbium phthalocyanin from co and erbium phthalocyanins have both ties. "V. N. Davy*dova, N. A. Dvor cipated in the experimental work." and Yu. V. Oboznenko for conducting has: 3 figures and 2 tables.	halocyanin. The lat to be formed by hea como-naphthalene or b ncentrated H ₂ SO ₄ . T labile and salt for nikova and T. A. Tru	metal pha- ter, C ₃₂ H ₁₆ Ng. ting samarium y reprecipi- he samarium ming proper- shina parti-	
ASSOCIATION: None	10 ⁻¹	· · · · · · · · · · · · · · · · · · ·	
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ACCESSION NR: AP4012451

5/0078/64/005/002/0478/0475

AUTHORS: Shklover, L. P.; Plyushchev, V. Ye.; Rozdin, I. A.; Novikova, N. A.

TITLE: Synthesis of titanium phthalocyanine

SOURCE: Zhurnal neorg. khim., v. 9, no. 2, 1964, 478-479

TOPIC TAGS: titanium phthalocyanine, metal phthalocyanine, hydroxy form metal phthalocyanine, titanium phthalocyanide, titanium phthalocyanine preparation

ABSTRACT: Titanium phthalocyanine is unknown although zirconium and hafnium phthalocyanines have been prepared earlier by the authors (same journ. 9, 125 (1964)). It was found that TiCl, readily reacts with o-phthalonitrile (O PhN) (proportion 1:4; at 170-190C;/l hour) to produce a stable titanium phthalocyanide. Analysis showed the compound contains 7.57-7.47% Ti, 61.50-61.09% C, 2.62-2.52% H, 18.22-17.39\% Ni and 4.50-4.45% Cl. This composition slightly differs from the formula $C_{32}H_{15}N_8$ Cl.Ti(OH), in the calculated Cl content (5.64\%) which is probably due to the Volatility of TiCl₄ causing deficient

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titanium phthalocya Analogous chlorine- were described by L 93(1939)) Compound Metal phthalocyaning	nine is 35% of substituted O- indsted et al. s with Zr and es in hydroxy of pigments re titanium phth 701, 631 and	precipitated from co alocyanine solutions	bduct of reaction. Cu, Al and Sb n. Ges., 72A, ed by the authors. ared by alkali oncentrated $H_{2}SO_{4}$. s in \bigtriangleup -bromofia-4	
ASSOCIATION: None		•		
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SHELOVER, L.P.; PLYUSHCHEV, ".Ye. Interaction of o-cyanobenzamide with rare-earth metal salts. Zhur. neorg. khim. 9 no.8:1830-1832 Ag '64. Yttrium derivatives of phthalocyanine. Ibid.:2015-2016 (MIRA 17:11)

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L 8866-65 EWI(m)/EPF(c)/EWP(j)/EWP(q)/EW ACCESSION NR: AP4043573	P(b)) Pc-h/Pr-J1 RFL JD/JG/RM S/0078/64/009/008/1830/1832
AUTHOR: Shklaver, L. P.; Plyushcher	
TITLE: Reaction between Ortho-cyan galts	bennanide and rare-carth-metal
	Mail, v. 9, no. 8, 1964, 1830-1832 Docyanine, lanthanide phthalocyanine, thalocyanine, phthalocyanine, aftrile, metal phthalocyanine symm
ABSTRACT: Synthesis of neadysfum of attempted by reacting neodysium for cyanobenzamide (CBA) instead of the used for synthesis of arbium and sa intermediate product in the prepara phthalinide, and as such might pres- nitrile. CBA had been used for sym- phthalocycuines and of AL, Ga, end for synthesis and a spectrophotomet	nates or erbium chloride with ortho- e ontho-phthalonitrile previously namium phthalocyanines. CBA is an thom of Q-phthalonitrile from ent an advantage over O-phthalo- thesis of certain other rare-earth For mithalocyanings. The procedure
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	solutions: off reacting presence off fram. ph 240-250C. The frame the reaction with 0 method is less suf lauthenide phthaloc phthalocyaning is n	ng mixtures in thalocysnike in phthalocysnik spithalonitriin sbio them the i yaning, since	Contraction pro- a time meetion pro- as was not detect b. It: is conclude Implitual out trile no com additional set	ne indicated oduct obtain ed in the pr ed that the mathod for p paration of	the ed at educt of CBA repering the free
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<u>L 8864-65</u> EWT(m)/EPF(c)/EWP(j)/EWP(q)/EWP(b) Pc-4/Pr-4 RPL/ESD(t)/ ASD(a) = 5/ESD(dp)/AFWL/RAEM(t)JD/RM S/0078/64/009/008/2015/2016 ACCESSION NR: AP4043582 AUTHOR: Plyushchev, V, Ye.; Shklover, L. P. TITLE: <u>Yttrium</u> derivatives of phthalocyanine 27 Zhurnal neorganicheskoy khimii, v. 9, no. 8, 1964, 2015-SOURCE : 2016 TOPIC TAGS: phthalocyanine, yttrium phthalocyanine, yttrium chloride, o-phthalonitrile, organic semiconductor ABSTRACT: Yttrium phthalocyanine has been synthesized for the first time by the reaction of yttrium chloride with o-phthalonitrile. This work was done in view of the potential use of metal derivatives of phthalocyanine as pignents, dyes, catalysts, semiconductors, stc. Preparative conditions were essentially the same as for erbium phthalocyanine (V. Ye. Plyushchev, L. P. Shklover, 2h. neorgan. khimii, 9, 335 (1964)). A purification procedure was developed which f makes it possible to isolate yttrium phthalocyanine as [C20H16NoFYOH. Absorption bands in the visible region for solutions of yttrium Card 1/2

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	ACCESSION NR: AP5012969 UR/0078/65/010/005/1121/1125	
	AUTHOR: Shklover, L. P.; Plyushchev, V. Ye.; Kuznetsova, G. P.; Trushina, T. A. B	
	TITLE: Formates of heavy lanthanides	
	SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 5, 1965, 1121-1125	0
	TOPIC TAGS: thulium formate, ytterbium formate, lutetium formate, lanthanide formate, thermal analysis, gravimetric analysis	
	ABSTRACT: Thulium, vtterbium, and lutetium formates, having the formula	
	$Me(HCOO)_3 \cdot 2H_2O$, where $Me = Tu$, Yb, or Lu, were formed by reacting HCOOH with the hy- droxides of these metals. Anhydrous ytterbium and lutetium formates were obtained	
	by drying the dihydrates at 80-90°C. The data of the ultimate analysis were con- firmed by the results of thermogravimetry and IR spectra. It was found by thermo-	
	gravimetric analysis that Tu(HCOO) ₃ ·2H ₂ O may be dehydrated under similar conditions. The density of ytterbium and lutetium formates and their dihydrates was determined	- 4
	pycnometrically, their solubility in water at 25, 40, and 50°C was studied by the isothermal method. Isothermal drying and thermal and thermogravimetric analysis	
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L 52061-65 ACCESSION NR: AP5012969 O were used to investigate the thermal stability of the three formates, which was found to decrease in the order Tu - Yb - Lu. The decomposition of Me(NCOO) ₃ takes products are formed having the formula Me ₂ O ₃ ·CO ₂ . This stage of the decomposition is characterized by exothermic effects when a platinum crucible is used, and by endo- and exothermic effects in the case of a quartz crucible. The intermediate products dissociate into Me ₂ O ₃ even during formation. This last stage of the decom- position is not associated with any thermal effects. The following mechanism is proposed: $2Me(HCOO)_3 \cdot 2H_2O + 2Me(HCOO)_3 + Me_2O_3 \cdot CO_2 + Me_2O_3$, where Me = Tu, Tb, Lu. Orig. art. has: 4 figures and 1 table. ASSOCIATION: none SUBMITTED: 06Jul64 ENCL: 00 SUB CODE: IC,GCC NO REF SOV: 005 OTHER: 002		الم المعلم المستقد الم المستقد المستقد		
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L 39302-65 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(b) IJP(c) JD/JG ACCESSION NR: AP5004597 S/0020/65/160/002/0366/0369 AUTHOR: <u>Plyushchev, V. Ye.; Shkiover, L. P.; Shkol nikova, L. M.; Kuznetsova,</u> G. P.; Nadezhdina, G. V. TITLE: Properties of <u>rare earth</u> formates from lanthanum to holmium SOURCE: AN SSSR. Doklady, v. 160, nc. 2, 1965, 366-369 TOPIC TAGS: rare earth compound, polymorphism, isomorphism, differential thermal analysis, thermal stability ABSTRACT: It is stated that the <u>properties</u> of rare earth formates are insufficient ly known. Formates of Y, La and all lanthanides of the Pr-Ho series (except Pm) Were synthesized by the reaction of freshly precipitated hydroxides with HCOOH. Ce(III) formate was synthesized by the dissolution of cerium carbonate in HCOH. X-ray studies of polycrystalline samples indicate polymorphism of Ce, Pr, Nd, Sm and Gd formates and isomorphism of formates of all elements in the La-Ho series. In the investigated series of rare earth formates, there is a systematic decrease in the parameter a of the rhombohedral lattice which is apparently associated with lathanide contraction. The authors determined the density of the above formates by the pycnometric method at 20±0.1° C. The solubility of these compounds was Card 1/3	

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EWT(1)/EWG(v)/EEC(t) Pe-5/Pae-2 GH 40303-65 ACCESSION NR: AR5009014 s/0269/65/000/002/0042/0042 SOURCE: Ref. zh. Astronomiya. Otd. vyp., Abs. 2.51.346 AUTHOR: Shklovskiy, I. S. TITLE: Possible identification of a source of X-radiation in the constellation Scorpion with the spur - a remnant of the flareup of a supernova close to the sun CITED SOURCE: Astron. tsirkulyar, no. 298, maya 18, 1964, 3-4 supernova, xradiation, Scorpion, radio emission, TOPIC TAGS: stellar astronomy} star, neutron star TRANSLATION: It is shown that the source of X-radiation in the constellation Scorpion coincides with the center of the spur - a well-known detail in the distribution of intensity of galactic radio emission. Since the second brightest source of X-radiation is identified with the Grab nebula, such a coincidence cannot be considered random. It must be regarded as a new proof that the spur is the expanding envelope of a type-II supernova which flared up at a distance of several tens of parsecs from the sun. It is possible that remnants of the flareup of type-Card 1/2

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PLYUSHCHEV, V. TO., SHKLOVER, L.P.; SHKOL'NIKOVA, L.M.; KUZNETSOVA, G.P.; THOSHINA, T.A. Ytbrium and erbium formates and their properties. Zhur, ob. khim. 35 no.10;1783-1790 0 165. (MIRA 18:10)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549620015-8 5 360 EWT(n)/EWP(t)/EVP(t)/STI IJP(c) JD/JG/RM ACC NR. AP6011891 SOURCE CODE: UR/0076/65/039/012/2924/2926 38 AUTHOR: Shklover, L. P.; Plyushchev, V. Ye. Ĥ CRG: All-Union Scientific Research Institute for Chemical Reagents and Very Pure Chemical Substances (Vsesoyuznyy nauchno-issledovstel'skiy institut khimicheskikh resktivov 1 osobo chistykh khimicheskikh veshchestv) The strength of the metal bond in the phthalocyanines of the TITLE: rare carth elements Zhurnal fizicheskoy khimii, v. 39, no. 12, 1965, 2924-2926 SOURCE: TOPIC TAGS: rare earth element, spectrophotometric analysis ABSTRACT: Metal phthalocyanines are usually characterized by a single intense (long wave) absorption band in the visible region of the spectrum, the position of which in a given solvent depends on the natura of the central metal. Spectroscopic investigations were made of the position of this maximum absorption band for 17 different rare earth elements. The experimental results are shown in a table. The data in the table show that the direction of the displacement of the position of the maximum absorption band of the phthalocyanines of the metals in the UDC: Card 1/2541.20

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L 36959-66 ACC NR: AP6014891 scandium subgroup is connected with the change in the characteristics of the elements. The dependence of the position of the absorption maximum λ_{1} on the atomic number of the lanthanoid is sufficiently well described by the following empirical equation: $\lambda_{,,,\mu\mu} = 4,4205 \cdot N + \frac{24838}{N}$. Solution of the equation for N = 57 (Ls), 58(Ce), and 61(Pm) gives, respectively, $\lambda = 687.72; 684.63;$ and 676.99 m μ . The values superimentally. The displacement of the absorption maximum of the abthelocyanines of the rare earth elements toward the short wave side with an increase in the atomic number is explained by an increase in the stability of the compounds. Orig. art. has: 1 figure and 1 table. BUB CODE: 07, 20/ SUBM DATE: 07Jul64/ ORIG REF: 010/ OTH REF: 002	-			Intrace and
scandium subgroup is connected with the change in the characteristics of the elements. The dependence of the position of the absorption maximum λ_1 on the atomic number of the lanthanoid is sufficiently well described by the following empirical equation: $\lambda_{,u\mu} = 4,4205 \cdot N + \frac{24838}{N}$. Solution of the equation for N = 57 (La), 58(Ce), and 61(Pm) gives, respectively, $\lambda = 687.72$; 684.63; and 676.99 m μ_{c} . The values balculated by the formula are compared in the table with values found experimentally. The displacement of the absorption maximum of the obthalocyanines of the rare earth elements toward the short wave side with an increase in the atomic number is explained by an increase in the stability of the compounds. Orig. ert. has: 1 figure and 1 table. SUB CODE: 07, 20/ SUBM DATE: 07Jul64/ ORIG REF: 010/ OTH REF: 002	L 36959⊶66			
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is have the second s C. ACC NR SOURCE CODE: UR/0363/66/002/010/1905/1905 AP6032958 Fedulov, S. A.; Tatarov, Z. I.; Shklover, L. P.; Sergeyeva, N. I.; AUTHOR: Antonov, G. N.; Gurevich, M. Z. 60 R ORG: none TITLE: Growing NaLa(Mo04)2 single crystals AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 10. 1966, 1905 SOURCE: TOPIC TACS: single crystal growth, molybdate, lanthanum compound, sodium compound, laser effect, laser optic material 2 ABSTRACT: NaLa(MoO₄)₂ single crystals were grown by Czochralski technique in a highfrequency crystallizer in view of the laser effect, previously reported in Western literature, in certain $MIMIII(MVIO_4)_2$ type compounds, where MI is an alkali metal, MIII a rare-earth element and MVI is W or Mo. The starting material NaLa(MoO₄)₂·2H₂O was synthesized by precipitation reaction of sodium molybdate and lanthanum nitrate in solution. Pure NaLa(MoO_4)₂ with MP = 1163C and scheelite structure was obtained by calcining the hydrated product at 900C. The crystals up to 60 mm long and up to 12 mm in diameter were grown from pure NaLa(MoO4)2 melt. The laser effect at a fairly low generation threshold was observed at room temperature in NaLa(MoO4)2 single crystals activated with 1 at% Nd. The generation threshold may be significantly decreased in the optically more perfect crystals. Orig. art. has: 1 figure. SUB CODE: 20/ SUBM DATE: 04Nov65/ CRIG REF: 001/ OTH REF: [JK] ATD PRESS: 5096 OTH REF: 005/ UDC: 548.55 **Card** 1/1 201

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