

CIA-RDP86-00513R000929820



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JIBIKOYA, H., REHACEK, J.; GRESIKOVA, M.; KOZUCH, O.; SOMOCYIOVA, J. Ernek, E.
Oytopathic viruses isolated from ixodes ricimus ticks in Czechoslovakia. Acta virol (Praha) [Engl] 8 no.1196 Ja¹⁶4.
1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

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Effect of cystamine and S-B-aminoethylisothiouronium on the activity deoxyribonuclease II in the spleen and thymus of irradiated rats. Vop.med.khim. 11 no.5:65-68 S-O ¹65. (MIRA 19:1)

1. Voyenno-meditsinskaya ordena Lenina akademiya imeni S.M.Kirova, Leningrad. Submitted May 13, 1964.

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1.	POPOV, V. YE. and <u>LIBIN, B. L.</u> and FEDOTOV, I. M.	
2.	USSR (600)	
4,	Agricultural Machinery	
7.	Mechanization of post-harvest handling of grain seed. Sel.i sem. 19 no. 12, 1952.	
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9.	Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.	

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CATOR NO. 186741 LIBIN, I. Sh. 1.1.2.5 Apr 51 USSR/Electricity - Discharge, Gas Widening of Impulse Discharge Channel Through Inert Gases," K. S. Vulfson, I. Sh. Libin, All-Union in 11 Lenin Elec Eng Inst "Zhur Eksper i Teoret Fiz" Vol XXI, No 4, pp 510-513 Measured velocity of widening of spark discharge channel through argon, krypton and xenon by rotating mirror. Observed glowing of gas under action of reflected shock wave. Describes case of formation of 2 independent channels in gases. 180741 LC.

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LIBIN, Izrail' Shneyerovich: VUL'FSON, K.S., redaktor; SKVORTSOV, I.M., tekhnicheskiy redaktor [Stroboscopps and their use] Stroboskopy i ikh primenenie. Moskva, Gos. energ. izd-vo, 1956. 39 p. (Massovaia ratiobiblioteka, no.246) (Stroboscope) (MLRA 9:11)

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 SOV/137-58-9-18747 Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 85 (USSR) AUTHOR: Libin, S.G. TITLE: Analysis of the Operation of Electrostatic Precipitators at the Noril'sk Kombinat (Analiz raboty elektrofil'trov na Noril'skom kombinate) PERIODICAL: Sb. materialov po pyleulavlivaniyu v tsvetn. metallurgii, Moscow, Metallurgizdat, 1957, pp 177-185 ABSTRACT: Data are presented on the operation of electrostatic precipitators (EP) at the following plants of the Noril'sk Kombinat: Nickel, copper, and by-product metals. At the nickel plant, the shaft-furnace gases are cleaned in 5 GK-30 EP units. The gases at the EP inlets is 0.8-1.7 g/nm3, while at the outlet it is 0.07-0.13 g/nm3. The high C content of the dust burden of the gases at the eperating wortage of the EP (220-230 v). The gases of the operating wortage of the EP (220-230 v). The gases of the eperating furnaces are cleaned in a vertical 5-compartment EP with two gas ducts and rod-type precipitation ing electrodes. The gases at the EP inlets is 3.5-5 g/nm3. Card 1/2 			
 AUTHOR: Libin, S.G. TITLE: Analysis of the Operation of Electrostatic Precipitators at the Noril'sk Kombinat (Analiz raboty elektrofil'trov na Noril'skom kombinate) PERIODICAL: Sb. materialov po pyleulavlivaniyu v tsvetn. metallurgii, Moscow, Metallurgizdat, 1957, pp 177-185 ABSTRACT: Data are presented on the operation of electrostatic precipitators (EP) at the following plants of the Noril'sk Kombinat: Nickel, copper, and by-product metals. At the nickel plant, the shaft-furnace gases are cleaned in 5 GK-30 EP units. The gas shaft-furnace gases are cleaned in 5 GK-30 EP units. The gas of the EP is 1.2-1.3 m/sec. The dust burden of the gases of duces the operating voltage of the EP (220-230 v). The gases of 2 ten-hearth matte-roasting furnaces are cleaned in a vertical 5-compartment EP with two gas ducts and rod-type precipitation of the gases at the EP inlets is 3.5-5 g/nm³, 		SOV/137-58-9-18747	
 AUTHOR: Libin, S.G. TITLE: Analysis of the Operation of Electrostatic Precipitators at the Noril'sk Kombinat (Analiz raboty elektrofil'trov na Noril'skom kombinate) PERIODICAL: Sb. materialov po pyleulavlivaniyu v tsvetn. metallurgii, Moscow, Metallurgizdat, 1957, pp 177-185 ABSTRACT: Data are presented on the operation of electrostatic precipitators (EP) at the following plants of the Noril'sk Kombinat: Nickel, copper, and by-product metals. At the nickel plant, the shaft-furnace gases are cleaned in 5 GK-30 EP units. The gas shaft-furnace gases are cleaned in 5 GK-30 EP units. The gas of the EP is 1.2-1.3 m/sec. The dust burden of the gases of duces the operating voltage of the EP (220-230 v). The gases of 2 ten-hearth matte-roasting furnaces are cleaned in a vertical 5-compartment EP with two gas ducts and rod-type precipitation of the gases at the EP inlets is 3.5-5 g/nm³, 	Translation	from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 85(USSR)	
 Noril'sk Noniner (enskiption komplete) PERIODICAL: Sb. materialov po pyleulavlivaniyu v tsvetn. metallurgii, Moscow, Metallurgizdat, 1957, pp 177-185 ABSTRACT: Data are presented on the operation of electrostatic precipitators (EP) at the following plants of the Noril'sk Kombinat: itators (EP) at the following plants of the Noril'sk Kombinat: Nickel, copper, and by-product metals. At the nickel plant, the shaft-furnace gases are cleaned in 5 GK-30 EP units. The gas shaft-furnace gases are cleaned in 5 GK-30 is plant. The gas overlocity in the EP is 1.2-1.3 m/sec. The dust burden of the gases at the EP inlets is 0.8-1.7 g/nm³, while at the outlet it is 0.07-0.13 g/nm³. The high C content of the dust (up to 25%) re- duces the operating voltage of the EP (220-230 v). The gases of 2 ten-hearth matte-roasting furnaces are cleaned in a vertical 5-compartment EP with two gas ducts and rod-type precipitat- ing electrodes. The gases at the EP inlets is 3.5-5 g/nm³, 		Libin, S.G.	
 PERIODICAL: Sb. materialov po pyleulavlivaniyu v tsvetn. metaliurgin Moscow, Metallurgizdat, 1957, pp 177-185 ABSTRACT: Data are presented on the operation of electrostatic precip- itators (EP) at the following plants of the Noril'sk Kombinat: itators (EP) at the following plants. At the nickel plant, the Nickel, copper, and by-product metals. At the nickel plant, the shaft-furnace gases are cleaned in 5 GK-30 EP units. The gas shaft-furnace gases are cleaned in 5 GK-30 in the outlet it is gases at the EP is 1.2-1.3 m/sec. The dust burden of the velocity in the EP is 0.8-1.7 g/nm³, while at the outlet it is duces the operating voltage of the EP (220-230 v). The gases of duces the operating furnaces are cleaned in a vertical 2 ten-hearth matte-roasting furnaces are cleaned in a vertical 5-compartment EP with two gas ducts and rod-type precipitat- ing electrodes. The gas velocity in the EP is 1.2-1.3 m/sec. 	TITLE:	Noril'sk romonat (
	ABSTRACT	 L: Sb. materialov po pyleulavlivaniyu v tsvetn. metallurgi, Moscow, Metallurgizdat, 1957, pp 177-185 Data are presented on the operation of electrostatic precipitators (EP) at the following plants of the Noril'sk Kombinat: itators (EP) at the following plants of the Noril'sk Kombinat: Nickel, copper, and by-product metals. At the nickel plant, the shaft-furnace gases are cleaned in 5 GK-30 EP units. The gas shaft-furnace gases are cleaned in 5 GK-30 EP units. The gas set the EP is 1.2-1.3 m/sec. The dust burden of the velocity in the EP is 1.2-1.3 m/sec. The dust burden of the gases at the EP inlets is 0.8-1.7 g/nm³, while at the outlet if 0.07-0.13 g/nm³. The high C content of the dust (up to 25%) duces the operating voltage of the EP (220-230 v). The gases at the eroasting furnaces are cleaned in a vertic 2 ten-hearth matte-roasting furnaces are cleaned in a vertic 	as tis re- s'of al at-

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AUTHOR: TITLE:	LIBIN,I.Sh. A Nultivibrator with Negative Feed-Back. (Mul'tivibrator	.7
PERIODICAL:	s otritsatel'noy obratnoy svyaz'yu, Russian) Radiotekhnika i Elektronika, 1957, Vol 2, Nr 6, pp 809-81 (U.S.S.R.)	0
ABSTRACT:	The use of multivibrators in various devices is often lim: by an insufficient frequency stability of the oscillation generated by them, when the voltage feed varies. The author here describes the fundamental system of a multivibrator with negative feed-back which is to an essential extent free from this deficiency. The peculiarity of the system is as follows: Due to the potentiometer of the negative feed- back R ₁ R ₂ part of the voltage is directed from the anode of the back R ₁ back and the system is an of the system is a solution.	B Dr LS
	tube L to the line of tube L; the presence of the resis R \gg R in the line current circuit of tube L, and the negative feed-back do not disturb the conditions for the c velopment of rectangular oscillations in the system. The t constant $C_1 R_{g1} \gg$ CR was chosen in such a manner that the	stance
Card 1/2	pitching moment of the circuit in any given case is determ by the modification of the current by tube L_2 . The stabili action of the negative feed-back is explained by the fact that in its presence the pitching moment of the system is	ined zing ≁≁

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4 Stroboscopic Tube

is coated with a layer of carbon. The operating life of the tube (when run at 250 p.p.s.) is between 600 and 900 hours; this compares very favourably with the life of the normal American stroboscopic tubes. The paper contains 3 figures and 6 references; 4 of the references are English and 2 are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy svetotekhnicheskiy institut (All-Union Scientific Research Institute for Illumination Engineering)

SUBMITTED: December 6, 1957.

Card 2/2

CIA-RDP86-00513R000929820

AUTHOR: SOV/120-59-2-36/50 Libin. I.Sh. TITLE: A Stroboscopic Tachometer (Stroboskopicheskiy takhometr) PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 2, pp 121-123 (USSR) ABSTRACT: An electronic stroboscopic tachometer is described which was designed to measure angular velocities between 250 and 30 000 revs/min. The accuracy of the strobotachometer is 0.2-0.5% and this is due to the use of a frequency divider with a variable conversion coefficient. Since most of the contemporary strobotachometers (Ref 1) have an accuracy not exceeding 1-2% the present tachometer is an important advance. The electronic circuit of the strobotachometer now described is shown in Fig 1. The master oscillator is an RC oscillator of sufficiently high stability and giving a sinusoidal The output of the oscillator is fed to the output. grid of a limiter which produces pulses suitable for the control of the frequency divider. The frequency dividing circuit includes a set of seven cells connected in series Card 1/2 and consisting of germanium triodes connected as shown on the lower left hand side of Fig 1. The output of each ÷

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A Stroboscopic Tachometer

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cell is applied through a switch to the grid of an amplifying valve. The output of the latter valve is then used to fire the **thyratron which controls the** repetition frequency of the pulsed source of light. Since the repetition frequency at the output of each cell in the frequency divider is lower by a factor of 2 than the corresponding frequency at the output it follows that when the master oscillator frequency varies between 500 and 1000 c/s, the repetition frequency of the light pulses varies between 4 and 500 c/s. The light source was in the form of a spherical xenon filled lamp

Card 2/2 shown in Fig 2. There are 3 figures and 8 references, of which 1 is English and 7 are Soviet. ASSOCIATION: Vsesovuznyv nauchnowissledovatelistic surfateback

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy svetotekhnicheskiy institut (All-Union Technology of Light Scientific Research Institute)

SUBMITTED:

February 14, 1958

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05471 SOV/120-59-3-42/46 AUTHORS: Libin, I. Sh., and Rokhlin, G. N. TITLE: A High-Temperature Vacuum Furnace (Vysokotemperaturnaya vakuumnaya pech') PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 3, pp 150-151 (USSR) ABSTRACT: Fig 1 shows the furnace generally. The leads, base, and body of the furnace are cooled by running water. Rubber ring seals are used between the body and the base, and on the viewing port (AB). The body is lifted by wires operating over pulleys with counterweights. Fig 2 shows the demountable heaters and connecting leads, etc. Tantalum wire is used to give temperatures up to 2000°C; nichrome is used for temperatures up to 1000°C. The heated volume at 2000°C is about 20 cm³; at lower temperatures volumes up to 100 cm² can be used. The heaters are screened by molybdenum foil to reduce the heat losses. There are 2 figures. ASSOCIATION: Svetotekhnicheskiy institut (Institute of Light Technology) SUBMITTED: February 27, 1958 Card 1/1 enterent service

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SOV/120-59-4-40/50

AUTHOR: Libin, I. Sh TITLE: A Tubular Stem for Sealing Off High-Pressure Vessels PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 4, p 148 (USSR) ABSTRACT: It is often necessary to fill a glass vessel (e.g. a gasdischarge tube) with gas at several tens of atmospheres. Filling with gases which do not condense at the liquidnitrogen temperature meets with serious difficulties during sealing-off of the vessel from the reservoir with compressed Fig 1 shows a tubular glass stem which can be used for this purpose. The stem is similar to the well known capillary device ("chortik") used for admission of gas from glass cylgas. inders into vacuum systems. After filling the vessel with gas the open end of the capillary shown inside the stem (Fig 1) is sealed off by high-frequency heating of a small metal cylinder placed round the capillary. Since the pressures in the outer tube of the stem and in the capillary are equal, the sealing-off process presents no difficulties. To protect the sealed-off capillary from damage the outer tube of the stem is also sealed off (if necessary the outer tube may be evacuated). When the metal cylinder employed for highfrequency heating is removed, the stem described here can be used as a leak valve in the same way as the "chortik" capill-Card 1/3

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SOV/120-59-4-40/50

A Tubular Stem for Sealing Off High-Pressure Vessels

ary. If the dimensions of the vessel being filled with compressed gas prevent fitting of a high-frequency inductor over the stem, it is possible to admit a gas from a side tube, shown dashed in Fig 1. In the case of filling of quartz vessels, the high-frequency heating may be dispensed with. The internal capillary made of the usual glass is then sealed to the outer (quartz) tube of the stem by means of intermediate glasses. The capillary is sealed off by heating the outer tube of the stem with a gas burner. The same procedure can be used for stems whose outer walls are made of metal. The use of high-frequency heating may also be avoided as follows: the stem has a "neck" or a partition with an opening small encugh to ensure a small rate of leak through it. After a certain time which is necessary to fill the vessel with compressed gas the stem is evacuated and

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STRATES STRATEGY CONTRACTOR

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AUTHOR:	Libin, I. Sh.	SOV/109-4-	-6-16/27	
TITLE:	inertnykh gazakh)	athode in Pulse Disch katoda v impul'snom	arges in Rare razryade v	
PERIODICA	L: Radiotekhnika i e pp 1026 - 1032 (USSR	lektronika, 1959, Vol)	4, Nr 6,	
ABSTRACT: Card1/4	5 mm. The electrodes fixed in special clip electrodes were sealed tube was also provide was situated at a dis tube was then filled Next, the tube was co Figure 1. This operation	small rods with round trodes was 2.5 mm and s were de-greased, the b holders. The holder ad in a glass tube, 4 ed with a trigger elec- stance of 1 mm from the with a rare gas and s bonnected into the circo ated at 50 c.p.s; the	ed ends. / The their length en weighed and rs with the mm apart. The trode which he cathode. The sealed off. buit shown in e capacitor C	Э
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	<u>ALLEROUR PARAFESCOPATEMATICAL</u> (VAL	anders and an and a second of the		

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SOV/109-4-6-16/27 Destruction of the Cathoi in Pulse Discharges in Rare Gases W is the probability of the transfer of the energy of the ions to the cathode. Eq (6) was used to determine the pulverisation rates for the cathodes of various metals. The results are shown in Table 3, p 1031, together with the experimental data. It is seen that the theory and the experiments are in good agreement. From the above investigation, it is concluded that the destruction of the cathode in a pulse discharge is caused by the ion bombardment, the process being similar to that encountered in a DC discharge at low pressures. The author expresses his gratitude to Professor K.S. Vul'fson for his advice and to R.S. Nakhmanson for discussing the results. There are 5 figures, 3 tables and 10 references, of which 5 are Soviet, 3 English, 1 German and 1 Czech. SUBMITTED: April 23, 1958 Card 4/4

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제 가지 위험 바이트를 찾는 것같다. 같은 것같은 것 같

L 1:1065-66 EWT(m)/EWP(t)/EWP(b) LJP(c) JD CC NR: AT6001391 SOURCE CODE: UR/3180/64/009/CCJ/0106/0108	1	
UTHOR: Bykhovskaya, L. N.; Libin, I. Sh.; Charnaya, F. A. 33		
RG: none $B+1$		
ITLE: <u>Nitrogen</u> flash lamps		
이 같은 것은 것 <mark>물건 것 위</mark> 에는 것 같은 것 같		-
OURCE: AN SSSR. Komissiya po nauchnoy fotografii i kinematografii. Uspekhi nauchno	У	÷.
otografii, v. 9, 1964. Vysokoskorostnaya fotografiya i kinematografiya (High-speed hotography and cinematography), 106-108		
OPIC TAGS: flash lamp, nitrogen, optic brightness		
BSTRACT: Sealed flash lamps filled with nitrogen at pressures up to about 10 atm		
ere prepared. The maximum instantaneous brightness was measured with a UIF-1 VNISI ulse photometer. Saturation of maximum brightness was found to occur at nitrogen		
ressures above 6 atm at $U = 12$ kv. By raising the gas pressure in the lamp, one can	n	
substantially decrease the voltage at which a given peak value of brightness is at- ained. Up to 15 atm, the maximum brightness of lamps operating under saturation	ł	
conditions is practically independent of the pressure; an increase in pressure merel	.y	
rolongs the radiation. The effects of pressure, distance between electrodes and in Nuctance of the discharge circuit on the voltage at which brightness saturation is	-	· · · ·
chieved are the same as in inert gases. The absolute value of the brightness of ni		
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arise in the discharge plasma when there is a sharp change in the discharge current. This hypothesis was experimentally checked by the oscillograph method. It was found that any sharp change in the discharge current, no matter what the causes of this change, is always accompanied by secondary peaks in the mean emission. The empli-199 : these peaks is directly related to the rate of change in the discharge current, and in certain cases is 8-10 times greater than that of the fundamental radiation real. An inductance connected in series with the neon tube or with the bypass discharger always reduced the amplitude of these peaks, or eliminated them entirely. alvals of the distribution of illumination in the cross section of the discharge sist confirms the new hypothesis on the mechanism responsible for this phenomenon. the t could possibly be used for producing extremely intense light pulses with outer orig. art. has a 2 fly even. IN THE VERSION RECEIPTION CONTRACTORS AND A SUBJECT OF A SUB-221an65 75 C C nd nr fai<u>m</u>e

ALC NR: AP6034247 IN SOURCE CODE: UR/0120/66/000/005/0237/0240 AUTHOR: Libin, I. Sh.; Varfolomeyev, L. P. ORG: WNI Institute of Light Technology, Moscow (WNI svetotekhnicheskiy institut) TITLE: An instrument for testing of high-speed miniature motors SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1966, 237-240 TOPIC TAGS: electric motor, magnetic field, electronic measurement, magnetic field measurement, velocity measuring instrument ABSTRACT: A method used to analyze performance of high speed miniature electric motors is described. The magnetic field surrounding the motor during its operation is sensed, and its ac components corresponding to the instantaneous motor angular velocity n, as . well as those corresponding to the slip f-n, where f is line frequency, are isolated and recorded. The field is sensed by a small coil with a ferrite core. The line frequency component f is filtered out by means of an M-derived resonant filter. A lowpass filter is used to suppress the f + n and higher harmonic field components. A special automatically tuned filter separates the f-n and f-2n components. The response of this filter depends on the approximate value of the instantaneous motor velocity. The filtered signals corresponding to n or f-n are detected and the varying dc levels are recorded on an X-Y recorder. An instrument based on these principles was constructed Card 1/2 UDC: 621.317.39:531.7:621.313.13-181.4

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BERRI, R.Ya., dotsent; KOZYLYAYEV, P.A., dotsent; LUNTS, G.L., dotsent; LIBIN, M.L., starshiy prepodavatel'; ROZENTAL', M.I., assistent. Prinimali uchastiye: FUKS, B.A., prof.; VOYEYKOVA, S.V., dotsent; KOZITSIN, V.I., dotsent; TEUSH, V.L., dotsent. ANOSHINA, K.I., red.; KUZ'MINA, N.S., tekhn.red. [Higher mathematics; instructions and control problems for students specializing in agriculture, fish culture, and forestry in upperlevel correspondence schools (departments)] Vysshaia matematika; metodicheskie ukazaniia i kontrol'nye zadeniia dlia studentov sel'skokhoziaistvennykh, rybokhoziaistvennykh i lesokhoziaiastvennykh spetsial'nostei zaochnykh vysshikh uchebnykh zavedenii (fakul'tetov). Pod red. G.L.Luntsa. Moskva, Gos.izd-vo "Sovetskaia nauka," 1958. (MIRA 12:4) 90 p. 1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya. Metodicheskoye upravleniye. 1 (Mathematics) . !

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88156 s/109/60/005/011/004/014 9,1000 (2703,2904, 1103) E140/E483 AUTHOR: Libin, V.A. TITLE: Certain Characteristics of Antennas with Arbitrary Polarization PERIODICAL: Radiotekhnika i elektronika, 1960, Vol.5, No.11, pp.1786-1796 TEXT: The author introduces the polarization loss coefficient $K_{\Pi\Pi\Pi}$, termed "polarization efficiency" in Western literature, and derives its dependence on the antenna polarization parameters the axial coefficients of the polarization ellipsi, the angles between their major axes and the direction of field vector rotation. The article contains graphs to support the contention that circular or elliptical polarization is superior to linear polarization. A diagram is given for calculating $K_{\Pi\Pi}$ for arbitrary values of νA the polarization parameters. Considerations are presented on the gain factor of antennas with arbitrary polarization and the calculation of the gain from measurements with arbitrary polarization characteristics. The dependence of the mean power over a scanning period on the polarization parameters is calculated Card 1/2 1.1 \sim \sim



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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929820 -LIBIN, V.A. Polarization analyser. Radiotekh. i elektron.6 no.4:661-663 Ap '61. (Polarization (Electricity))

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	 24(0); 5(4); 6(2) PHASE I BOOK EXPLOITATION SOV/2215 Ysesoyurnyy nauchno-issledovatel'skiy institut metrológii imeni D.: Mandelayava 	Referaty nauchno-isaledovatel'skikh rabot; sbornik Mo.2 (Scientific Research Abstrate; Collection of Articles, Nr 2) Moscow, Standartgir, 1958. 139 p. 1,000 copies printed.	 Ed.: S. V. Reshetins; Tech. Ed.: M. A. Kondrat'yeva.	SI These reports are intended angineers engaged in developie des for the various industries	witches freevery and the second standards, measures, and and engineers engaged in developing standards, measures, and gages for the various industries.	COVENAGE: The volume contains 128 reports on standards of measure- ment and control. The reports were prepared by scientists of institutes of the Komitet standartov, mart 1 izmeritel'hykh priDorvy pri Sovete Ministov SSSR (Commission on Standards,	Nessures, and Nessuring Instruments under the USSR Council of Munisters). The participating instructes are: WILN - Vessyurany nuchno-issledovate!'sity metrologil imeni D.I. Nendeleyeva (All-Union Scientific Research Institute of Net-	rology iment Dile Mondargyey) in Lafingeau Servives urearca of this institute, WHIK - Vescorurny nauchno-isaldovatel'skiy institut Kondites a standarcov, mer i izmettel'nyth priborov (All-Union Scientifio Research Institute of the Commission	on Standards, Meatures, and measuring instructure, or stand from WIJNE - Moskowsky goudarstrenny institut mer 1 izmerical hydr probrow (space Mister Institute of Measure and Measuring Instruments) October 1, 1955; WILFRU -	Teacorumny nauchno-isaledowatel'sky institut fiikoeskonia- oheakikh i radiotskhnicheskikh izmereniy (All-Union Scientific Resaurentis in Noscow; Kholter - Alar-kovekky Scoudstreeriny Meaureneits) in Noscow; Anderie invoh arthorev (Fhorikov State Institute	of Measures and Measuring Instruments); and NOIMCP - Novost- birakiy goudarstventy institute war 1 instartial "Nych pricorov (Morosibirzk State Institute of Measures and Measuring Instru- ments). No personalities are mentioned. There are no references.	Tovchigrechko, 3.3. (VNIM), Studying Recurrent Errors of Micrometric Screws of Level Triars	- Tube	Britthey L.D. V.F. Lubentany, <u>3.M. Outhotine</u> , and <u>F.A. Shpan'on</u> (ModNLP) Widening the Spectrum of Standard Prequencies Produced by the RholMLP Standard Prequency Unit to 10 ⁻⁰ Cycles per Second	Sasgin, A.O. of 12:5 - 106 (WHIFTHI). Quartz Resonstor With a Quality Pactor An	DEMANNALIY, Ye.D. NOVGOTODOV, M. MA. Neparidae, 1.5. Qumentuk Materia and <u>Air Statistics</u> (IDAIDUP). Developing Quarte	Bryzthev, I.D., M.D. Sapelinikov, V.M. Titov, F.F. Yestafiyev, and V.I. Jurenko (KndIMIP). Developing and Studying Sizpje and Buttalle Oscillators and Convertors of Migh Stability for fime and			
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SOV/120-59-1-22/50 AUTHOR: Libin, Yu. M. An Instrument for Measuring the Natural Decay Times of TITLE: Quartz Crystals (Pribor dlya avtomaticheskogo izmereniya vremeni svobodnogo zatukhaniya kvartsevykh rezonatorov) PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 1, pp 89-92, (USSR) The quantity actually measured is the time required for ABSTRACT: the oscillation amplitude to decay by a factor e or e۲ In the method given (Fig 1) the crystal is excited to oscillation in the circuit of the first tube and is then connected to the input of the wide-band amplifier built up round the next four tubes (by pressing the knob on the multiple-pole switch). The bandwidth is 1 kc/s to about Mc/s. The output is rectified and filtered, and the re-1 sulting negative voltage is applied to the grids of the two thyratrons, one of which has a negative bias that is or e² e^2 times the bias applied to the other. A signal lamp lights when the first thyratron fires; at the same time an electronic chronometer is started by the relay in the anode circuit, and the time taken for the second thyratron to fire is measured. The changeover switch is used to eliminate Card 1/2

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	SOV/120-59-1-22/50	
·	An Instrument for Measuring the Natural Decay Times of Quartz Crystals	
	errors caused by slight differences in the striking voltages of the thyratrons. The second part of the paper deals with the errors in the results caused by errors or fluctuations in the circuit parameters. The conclusion is that the error will not exceed 5% if the decay time is longer than 0.05 sec. The paper contains 2 figures, and 1 Soviet reference (trans- lation of a Western book).	
	ASSOCIATION: Khar'kovskiy gosudarstvennyy institut mer i izmeritel'- nykh priborov (Khar'kov State Institute of Measures and Mea- suring Instruments)	
	SUBMITTED: January 29, 1958.	
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ACC NR: AT6022		(a) A set of the se		,,,	
AUTHOR: Gardas	h'yan, V. M.; D'yach	enko, V. V.;Libin,	IU. V.	53	
ORG: none	د		- /	B+1	
TITLE: Problem	s of investigation a	nd design of pulsed	lasers 15		
SOURCE: Vsesoy Sektsiya kvant	uznaya nauchnaya ses ovoy elektroniki. Do	siya, posvyashchenn klady. Moscow, 1966	aya Dnyu radio. 23 , 14-17	2d, 1966.	
TOPIC TAGS: TU	by laser, solid stat	te laser, pulsed las	er, laser R and D		
factors influe temperature ca pumping power is increased a slit cut in output (2 - f. cooling condi- they have a l- increasing th (0.03-0.04 p		iciency are briefly function of cooling- ency increases by 2- in. The cooling effi the ruby rod; this Optimal ruby-rod dia niformly distributed per cm at an effic -2 timos as compare r water (OC instead g of the ruby rod ar rsed ruby-rod laser	liquid rate-of-fl -2.5 times when the ciency can be enh results in doublin meter is 6-8 mm d Cr have been gro ciency of 1.2%; th of to conventional of 25C) results i d sealing its end design. Orig. art	ow and he rate-of-flow anced by using ng the laser eranding on wn in <u>IK AN SSSR:</u> ey permit rubies n about 50% s are also	
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ACC NR: AP6033539	(a)/FWT(m)/EEC(k)_2/T/EWP(k) IJP(c) WG SOURCE CODE: UR/0170/66/011/004/0526/0531
AUTHOR: Khromov, A. V.;	Libin, Yu. V.
ORG: none	1 15 3
TITLE: The heat source de	ensity and the temperature field in a ruby laser crystal
SOURCE: Inzhemerno-fiziche	skiy zhurnal, v. 11, no. 4, 1966, 526- 31
TOPIC TAGS: laser, ruby laser temperature field,	laser, laser heating, unby laser heating, laser temperature, absorption coefficient, laser pumping, heat source
ruby rod with a constant <u>IFP-800 xenon lamp</u> provid 200 J at 800 v. The diam assumed that only the 0.3 Secondary absorption of t coefficient caused by dep the yield were neglected. absorbing spectra was use then applied for calculat	investigation of the problem is made using a cylindrical spatial absorption coefficient and a polished surface. An ed isotropic pulsed pumping radiation with an energy of eter of the rod was considered equal to 0.65 cm. It was to 0.7-µ band of the pumping spectrum was effective. the luminescent radiation, the change of the absorption opulation of the ground level, and the effect of heating on The method of numerical integration of pumping and ed to compute the heat source densities. These values were tion of temperature fields under the assumption that the end thermally insulated and its surface has a constant coeffi-
Cord 1/2	UDC: 536.21:548

cie	NR: nt of	AP603	ransfer. Ty ses are cons	pical case	es of pumpi	ng by r	ectangular,	instanta 21 form	neous, a	and
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Card	2/2	2C								•

LIBIN, Z. G. and RABINOVICH, U. L. "Metody Matematicheskoi Fiziki," (Methods of Mathematical Fhysics), 2d Vol., 544 p., Moscow-Leningrad, 1951. Translated from German by the above.

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10.7 LIBINA, A. Yu. "The Use of Vicasol Vitamin K3 in the Treatment of Gingivo-Stomatitis," Stomatologiya, No. 1, 1948. Kharkov Stomatol Inst., -c1948-. Charles . * 18 J

LIBINA, F. New system of wages for workers in the finishing section of rolling mills. Biul.nauch.inform.:trud i zar.plata no.6:9-12 '59. (MIRA 12:9) (Wagas) (Kramatorsk--Metallurgical plants)





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LIBINA, R.I. 04 Rapid method for determining free sulfur. R. 1 Libita. A: D. Miller, and A. P. Mavakin (Leulograd Technol. Inst.). Zavadikaya Lab. 10, 250-02(1020).--The sample (A) 100 mg.) is sublimed in a weighed glaw bulb fitted with a glass air-cooled condenser (2) cm. long by bacting at 550-460° for 23 min. The loss in wt. gives t the amt. of S. A correction should be made for any thio-sulfare present. G. M. Kosolopoff ALC: NO. OF THE OWNER THE OWNER WATER TO A CONTRACT OF 197.0.404

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		and an	913 (1997) (1988) 2017 - 1997 2017 - 1997
5(2) AUTHORS:	Miller, A. D., Libina, R. I.	SOV/75-13-6-8/21	
TITLE:	Determination of Micro-Quantities of in Natural Water and Soil Extracts mikrokolichestv medi, svintsa i tsin vytyazhkakh iz pochv)	(K voprosu ob opredelenii	
PERIODICAL:	Zhurnal analiticheskoy khimii, 1958 (USSR)	, Vol 13, Nr 6, pp 664-667	
ABSTRACT: Card 1/4	In the method of separation and det and zinc by means of dithizon potas masking Cu and Zn in the determinat The toxicity of KCN, however, is a applying this method to fields. Fu insufficient results of lead determ for the separation and subsequent d Zn without using potassium cyanide In the first method copper is extra solution by dithizon, or the sum of three elements is extracted from we in the presence of ammonium citrate extracted afterwards by 0.01 - 0.02	sium cyanide is used for ion of lead (Refs 1,2). great disadvantage in rthermore KCN yields ination. Two procedures etermination of Cu, Pb and have already been devised. cted from hydrochloric the dithizonates of all akly ammoniacal solution a, and Pb and Zn are re-	
and the second	มาร่องสารมาสถารรณ์สารมาสารมาสารมากรรณสารมาสารมาสารมาสารมาสารมาสารมาสารมาสา	ad an	

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SOV/75-13-6-8/21 Determination of Micro-Quantities of Copper, Lead and Zinc in Natural Water and Soil Extracts copper is determined on the basis of the mixed coloring in the organic extract. The aqueous layer is turned ammoniacal, and Pb and Zn are extracted as dithizonates. The authors of the present paper found that lead can be re-extracted from the extract by means of an aqueous thiosulfate solution, if $p_{\mu}(\sim 6)$ is sufficiently low. The aqueous extract is turned ammoniacal, lead is extracted by a solution of dithizon in CCl₄ and zinc which has remained in the organic layer, is determined by comparison with standard solutions or reextracted and titrated with dithizon. The second well-known procedure is based on the different stability of the solutions of diethyl dithiocarbamates of Cu, Pb and Zn in CCl, against hydrochloric acid. In acid aqueous solutions diethyl dithiocarbamic acid is rapidly destroyed (Ref 4). The carbamates of heavy metals, on the other hand, are not so easily destroyed by acids after extraction with carbon tetrachloride (Refs 5,6). Therefore, the authors decided to separate copper, lead and zinc by re-extraction with hydrochloric acid of different con-Card 2/4

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Determination and Zinc in Na	of Micro-Quanti tural Water and	l Soil Ext	racts	,	75-13-6- ch are S		
ASSOCIATION:	There are 2 tables and 7 references, 4 of which are Soviet. Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i tekhniki razvedki (All Union Scientific Research Institute for Methods and Technique of Prospecting) Leningradskiy tekhnologicheskiy Institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet)						
SUBMITTED:	January 8, 19	57					
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Card 4/4							



MILLER, A.D.; LIBINA, R.I.; NAZAROVA, Z.N.

Determination of micrograms of lead, copper, and silver in natural waters after concentration by the method of coprecipitation with calcium carbonate. Trudy LTI no.48:109-118 '58. (MIRA 15:4) (Metals--Analysis) (Water, Underground)

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24 (7) AUTHORS:	Setkina, O. N., Libina, R. I. SOV/32-25-6-24/53	
TITLE:	News in Brief (Korotkiye scobshcheniya)	
PERIODICAL:	Zavodskaya Laboratoriya, 1959, Vol 25, Nr 6, p 714 (USSR)	
ABSTRACT :	The authors report here that they have obtained an increased sensitivity in the spectral determinations of Li, Rb, Cs by causing scattering coronas of alkaline trace elements. Two drops of a saturated NaCl solution and one drop of a 10 % KCl solution are added to the liquid sample concentrates and standard samples (volume 1 ml) and one drop of the mixture is applied to the carbon electrode. The absolute sensitivity of the determination then amounts to $5 \cdot 10^{-10}$ g for Li, $5 \cdot 10^{-9}$ g for Rb and $5 \cdot 10^{-7}$ g for Cs. An increased gensitivity in spectral analyses may be attained also with	
•	other elements in a similar way, and a few examples are given in this connection. There is 1 Soviet reference.	
ASSOCIATION:	Leningradskiy tekhnologicheskiy institut im. Lensoveta	
Card 1/1	(Leningrad Technological Institute imeni Lensovet)	

DEGTYARENKO, A.P.; LIBINA, R.I.; MILLER, A.D.

Concentration by coprecipitation with sulfides and the determination of trace amounts of Cu, Zn, Pb, Co, Hg, Ag, V, W, and Mo, as applied to the analysis of natural waters. Gidrokhim.mat. 29:264-272 '59. (MIRA 13:5)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta, Kafedra analiticheskoy khimii. (Trace elements) (Water--Analysis)

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Laminated Glass-reinforced Plastics. Report VIII. A Polyester Binding Agent for Glass-reinforced Plastics 87922 \$/191/60/000/004/003/015 B016/B058

the inert gas at 170-190°C (see scheme). The resin yield was 89 to 92% of the total content of all components. After solidification, PDF mixed with 1/5 styrene gives a product that is difficultly combustible and stops burning after removal of the flame. The product from 70 parts by weight of PDF and 30 units of styrene is still less combustible. FDF may be mixed with methyl methacrylate at any proportion, and its solutions are gelatinized at room temperature within three hours in the presence of 6% isopropyl benzene hydrogen peroxide and 8% of the accelerator HW(NK). This also occurs within 15 minutes in the presence of 3% methyl-ethyl ketone peroxide and 3% NK. From PDF and glass fabric T_1 (T_1), the authors produced

samples of self-extinguishing glass textolite, which are superior to the product from styrene resin MM-1 (FN-1) with respect to their most important mechanical and insulation properties. The authors prepared a test sample of higher transparency from PDF and glued glass mat. Papers by G. S. Petrov, K. A. Andrianov, and S. I. Dzhenchel'skaya (Ref. 2), as well as G. S. Fetrov and K. N. Vlasova (Ref. 3) are mentioned. There are 5 figures, 2 tables, and 7 references: 5 Soviet, 1 French, and 1 German.

Card 2/2

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33285 s/191/62/000/002/005/008 B127/B110 15.8121 1407 Gosteva, O. K., Libina, S. L., Pryanishnikova, M. A., AUTHORS: Akutin, M. S., Plate, A. F. Production of 2,3,6,7-dioxide of 1,4,5,8-di-endomethylene-TITLE: 1,4,4a,5,8,8a-hexahydro naphthalene Plasticheskiye massy, no. 2, 1962, 55 PERIODICAL: According to J. A. Trigaux (Modern Plastics, 38, no. 1, 147 (1960)), TEXT: specially heat-resistant epoxy resins are obtained on the basis of dicyclopentadiene. In the present study, 1,4,5,8-diendomethylene-1,4,4a,5,8,8a-hexahydronaphthalene developing from bicyclo-(2,2,1)-heptadiene-2,5 and cyclopentadiene was investigated. In the epoxy resinification of diendomethylene hexahydro naphthalene with monoperphthalic acid in ether at 30°C, a hitherto unknown dioxide was obtained: 2RCOOOH 2RCOOH + 111 Card 1/2

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Production of 2,3,6,7-dio	cide	S/191/62, B127/B110	/000/002/00 <u>9</u> 0	5/008		
The yield was 50 %. The m 179.5°C. II is a byproduc The analysis of the C- and C $_{12}^{H}$ 14°2. The infrared sp 847 cm ⁻¹ which belongs to disappearance of the line bond, proves completeness the range 3200-3600 cm ⁻¹ , purity of the product obta 3 Soviet and 2 non-Soviet reads as follows: 0. D. Anal. Chem., 23, 277 (195)	et of the manufa I H content corr bectrum of the d the C-O group i at 1570 cm ⁻¹ , w of resinificati characteristic ained. There ar . The reference to Shreve, M. R. He	cture of the is esponded to th ioxide shows a n the epoxy gr hich correspon on. The absen of hydroxyl gr e 1 figure and to the English-la	nsecticide ' e formula n intensive oup. The ds to the C ce of the 1 oups, confi 5 referenc nguage publ:	'al'drin". line at =C double ine in rms the es: lcation	X	
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L 16511-66 EWT(m)/EWP(j)/T WW/RM (A) SOURCE CODE: UR/0191/65/000/012/0015/0016 ACC NR: AP6001495 AUTHORS: Libina, S. L.; Gurman, I. M.; Mironova, N. F.; Klimkina, V. V. ORG: none 27 TITLE: Epoxide resins based on dicyclopentadiene and its ethers В SOURCE: Plasticheskiye massy, no. 12, 1965, 15-16 TOPIC TAGS: epoxide, maleic anhydride, epoxy plastic/ ED-5 dian resin ABSTRACT: Preparation of diepoxy compounds from dicyclopentadiene (I) and its ethers and the properties of resins and plastic glass derived from them are described. Epoxidation of I, according to the equation $0 + 2RCO_{1}H_{2}$ CH4 + 2RCO₃H yielded the diepoxy compound in 85% yield, m.p. 183C. Ethylene and diethylene glycol ethers of I were epoxidized according to the scheme UDC: 678.64414215-678.762.9 Card 1/2 ^astra

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L 11h07-67 E.T(m)/M	P(i) RM		
ACC NR: AP7003664	Sourci	E CODE: UR/0079/66/036/008	/1473/1474
AUTHOR: Talyanker,	Ye. G.; Libina, S. L.; Gefte	or, Ye. L.	25
ORG: none		4 	
TITLE: Production of methylphosphinic acid	f the <u>dioxide of the di(o-a</u>)	lylphenyl) ester of	
SOURCE: Zhurnal obsi	hchey khimii, v. 36, no. 8, 1	.966, 1473-1474	
TOPIC TAGS: organic	oxide, ester, phosphinic ac	eid, pyridine	
acid was synthesized of methylphosphinic	xide of the di (o-allylphenyl according by reaction of o- acid and pyridine, followed ster of methylphosphinic aci RS: 38,970/	allylphenol with the dichle by epoxidation of the	
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-	alkylate is neutral with practically no dialkylphenols formed. The operation be fully automated. KU-2 operates for a long time without losing activity and regenerated by washing in polymerized olefins. The preparation of KU-2 for processing, as well as the manufacturing of phenol alkylate, its sulfonation (S_2Cl_2) and saponification with $Ba(OH)_2$, are described. The oil additive proc using KU-2 is considerably superior to that prepared with the aid of BSA as saponification, and no sulfur residues. Orig. art. has: 3 figures and 1 table ASSOCIATION: None	dis	•	
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LIBINSON, G.S.; SAVITSKAYA, Ye.M.; BRUNS, B.P. Sorption of the organic anion of the dye 1 (2',4' -dimethylphenylazo-2-hydroxynaphthyl-3,6-disulfonic acid on the weakly basic anion ex-changer AM-15. Vysokom. soed. 2 no.10:1500-1507 0 '60. (MIRA 13:9) (Azo dyes) (Sorption) ÷. APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929820(

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