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for $x \neq 0$, L $\mu \, \boldsymbol{\omega} \not = 0$, Y t, this system forms, like systems $\{I_{j}\}\left[\mathbb{P}_{\mathbb{P}_{n+X}}\omega_{X}\right]\mathbb{P}_{n}, \omega_{X} = n: \{I_{j}\}\left[\mathbb{P}_{\mathbb{P}_{n+X}}\ln_{X}\right](\mathbb{P}_{2})\omega_{12} \in \mathbb{P}_{n} \text{ functed series of }$ Solitions of the statement of the solitions can be There is the solution $\{\ell_{1,2,\mathbf{x}} \subset \{\chi_{2,\mathbf{x}}\} \in \mathbb{F}_{2,-\mathbf{x}} \times \{\chi_{2,\mathbf{x}}\} \in \mathbb{F}_{2,-\mathbf{x}} \times \{\chi_{2,\mathbf{x}}\}$ where $\mathbf{M} = \mathbf{T}_{1,2}^{-1}$, $2\mathbf{r}^{4,+}$. s_2^{4+} is the bolt substantiation magnelisation for x=0.3 attains a maximum of the Neel temperature draps. The initial permeability was determined on poly systelline samples from solid solitions of the last mentioners of the contract of the sound structure of the two sound of the two sound of the contract of the sound of my contract, as sold in the mean of the formation of the

s all solute rook of there of radiographically in each onse. A microstructures of four was not performed in some cases. The pares were interface of the first is the interface of the structure of the second sec contraction is furnished that from a reason of promotive explaines row a structure to the explaines row a All the first of the fact has the fact that so then into Arcount, is Carto A

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s/181/61/003/006/020/031 24923 Ferrimagnetic materials with B102/B201 has been shown by studies of the temperature dependence of μ_o , that the maximum value of μ_0 rises with the content of diamagnetic ions. The authors believe that anisotropy and magnetostriction drop in consequence of a diminution of the content of magnetically active ions. The value of μ_0 is determined by shifts of the domain boundaries. K. P. Belov and L. A. Fomenko are mentioned. There are 1 figure, 1 table, and 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: S. Geller. J. Appl. Phys. 31, 5, 305, 1960 ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors AS USSR, Leningrad) SUBMITTED: January 17, 1961 Legend to the Table: 1, content of second component in mole%; 2, last thermal treatment; 3, density in g/cm³; 4, maximum temperature; 5, holding time in hours; 6, apparent density; 7, density in % of theoretical values; 8, μ_0 for t = 20°C and f = 10⁴ cps. Card 3/5

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9.2571 30066 s/048/61/025/011/011/031 5 2460 211 7 900 (1055, 1144, 1163) B104/B102 Gurevich, A. G., Safant'yevskiy, A. P., Solov'yev, V. I., лиризная and Sher, Ye S Effent of induced anisotropy upon ferromagnetic resonance TITLE: Akademiya nauk SSSR. Izvestiya Seriya fizicheskaya. v. 25. PERTODICAL: no. 11, 1961, 1361 - 1367 TITLE: The authors studied the effect of electron-induced anisotropy of polycrystalline yttrium garnets upon ferromagnetic resonance from 4 2-300°K. The measuring technique used in the temperature range of 77 - 300°K had been described in a previous paper (A G Gurevich et al , Fizika tverdogo tela 2, no 1, 19 (1961). A square resonator was dipped into liquid helium with the specimen between 4 2 and $77^{\circ}K$. With 3 2-cm waves the resonance field H and the width $2 \triangle H$ of the resonance curve were determined from the dependence of the reflection factor $|\Gamma|$ on the magnetic field, as recorded by an ƏNA-09(EPP-09) voltmeter. An example is illustrated in Fig : Nanganese-free specimens annealed at high temperatures showed a rapid increase of $2\Delta H$ with decreasing temperature . For an initial yttrium oxide Card 1/4-

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j(jiid) 5/048/61/025/011.011/031 B104/B102

Effect of induced anisotropy

with a purity of 99 995%, the said rise cannot be attributed to rare-earth impurites Present results show that the induced anisotropy of polycrystalline yttrium garnet is due to Fe²⁺ ions To clarify the establishment of induced a nisotropy with time, the authors determined the time dependence of $|\Gamma|$ when the specimers were rotated through 90° within w0 1 sec. $|\Gamma|$ and rot change noticeably above 130°K. At lower temperatures, [7] changed abructly during rotation, and then returned to its original value (Fig. 4) dign and amplitude of the jump were found to depend on the constant field H

It is believed that induced anisotropy is not yet fully established immediately after rotation through 90° and that the resonance curve at a given temperature shifts by H toward stronger fields relative to the static

 ${
m H}_{
m c}$, (50 persteds is obtained at $77^{9}{
m K}$, and ${
m H}_{
m c}$ = 200 persteds at curve

200 H it follows from a discussion of this result that in addition to the processes that are observed after rotation, also other processes take place which have time constants considerably smaller than the time of rotations. These processes are held responsible for the major part of the induced anisotropy field As is shown, a superposition of several processes with different time constants and activation energies of the order of 0.05 ev Jard 2/As

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Effect of induced anisotrony...

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takes place. This activation energy is considerably lower than that of electron processes (0.375 ev) accompanying the shift of domain boundaries. These processes differ substantially from those which determine the induced

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anisotropy. The electron cloud of the Fe²⁺ ion is evidently deformed in the present case. This deformation requires much less activation energy than the electron processes mentioned before. G. A. Smolenskiy and Ya. M. Ksendow are thanked for discussions. N. N. Parfenova carried out chemical analyses. There are 12 references: 5 Soviet and 7 non-Soviet. The three most recent references to English-language publications read as follows: Epstein D. J., Fracklericz E., Hunt R. F., J. Appl. Phys., 32, no. 3, 217 S. (1961); Thite R. L., Fhys. Rev. Lett., 2, no. 11, 465 (1959); Dillon, J. F., Bull. Amer. Fhys. Soc., 6, no. 2, 160 (1961).

Fig. 1. $|\Gamma|$ as a function of the magnetic field. Legend: $|\Gamma|_{co}$ is $|\Gamma|$ far away from ferromagnetic resonance. Fig. 4. Time dependence of $|\Gamma|$ after rotation of the specimen through 90°.

Card 3/4

30077 24.1200 (137,1144,1164) S/545 /61 /525/511 /525/531 B117/B102 15 2660 Smolenskiy, G. A., Chang Tsung, and Sher, Y+ S. AUTHORS: Frequency and temperature dependences of initial TITLE. permeability of ferrites with garnet structure Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya. v. 25. FERIODICALno. 11, 1961, 1402-1407 TEXT: The frequency and temperature dependence of the magnetic permeabilities μ^* and μ^w of ferrites with garnet structure were studied. Both high-density polycrystalline specimens, and single crystals were used (Folyorystalline yttrium-ferrite of a resistivity of $\zeta \sim 10^6$ ohm-im and airsintered at 1450°C displayed a relaxation of the dispersion of μ^+ at room temperature.) With rising temperature the maximum of $u^{\dagger}(f)$ is shifted toward higher frequencies. In the state of remanent magnetization, u^{\dagger} is considerably lower than the state of zero magnetization. The magnetic spectrum of polycrystalline resistivity ferrites (~10⁴⁰ chm.cm) differs significantly from the spectrum of ferrites with a low resistivity. The high resistivity is obtained by introducing MnC which leads to formation Cari 1/4

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S/048/61/025/01*/003/03*

Frequency and temperature

of donor-acceptor pairs - Introduction of CuO allows to reduce the sintering temperature. In this case, a temperature rise shifts the maximum of μ " toward lower frequencies (domain boundary resonance). High-resistivity single crystals display a similar effect, but their resodant frequency is at noon temperature by one order of magnitude lower than that of polycrystallane spectmens. The magnetic spectra of high resistivity ferrites were almost independent of the state of magnetization. Magnetic synthma of one and the same specimens were examined when charging resistivity by leat treatment in various gaseous media. Measurements were made prior to and after heat treatment on toroidal single-crystal specturens. At low temperatures, resistivity was found to le inversely proportional to the initial permeability. It is pointed of that achealing might hange if ide to a change of the locain structure as defects from or disappear. Independently of resists thy, these formite single prystals have low decletter constants, a fact which was first established by Ya. M. Ksenator - Up to now it was assured that all ferrites with low . should have a high ${\cal E}$, which was explained by matroheser geneities of the specimens. In addition to yttrium fermite. solid colotions based to it were examined. Values of initial concapility are consected in Table 2 for several solid solids for the tay be seen, 1 Card 2/4 -

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Frequency and temperature ...

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in case of yttrium ferrite or of rare-earth ferrites does not grow larger unless dismagnetic ions are introduced into the octahedral sublattice. There are 6 figures, 2 tables, and 2 Soviet references.

Legend to Table 1: (1) content, mole β ; (2) first component; (3) second component; (4) final annealing; (5) maximum temperature, ^cC; (6) holding time, hr; (7) initial low-frequency permeability at 20^oC.

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s/056/62/043/003/023/063 B102/B104 Smolenskiy, G. A., Yudin, V. M., Sher, Ye. S., Stolypin, Yu. Ye. Antiferromagnetic properties of some perovskites AUTHORS: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, TITLE: no. 3(9), 1962, 877-880 FERIODICAL: TEXT: The authors studied the magnetic properties of polycrystalline single-phised LaCrO3 and BiFeO3 samples by measuring the temperature dependences of the magnetic susceptibility χ , of $1/\chi$ and of the spontaneous ferromagnetic moment m₀. The $\chi(T)$ curves of both compounds showed sharp peaks at the Neel point, BiFeO, had no spontaneous ferromagnetic moment, and that of LaCrO3 was very small but could be increased by thermomagnetic treatment. The weak ferromagnetism of these perovskites is assumed to be caused mainly by an anisotropic indirect exchange interaction. It is suggested that the exchange interaction is responsible also for the Card 1/2

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549110015-4 ALL DESCRIPTION OF THE PARTY OF T s/056/62/043/003/023/063 B102/B104 Antiferromagnetic properties of... noncolinearity of the spin moments, which is assumed to be the cause of no ferromagnetic moment being observed in BiFeO3. There are 2 figures and 1 table. Institut poluprovodnikov Akademii nauk SSSR (Institute of ASSOCIATION: Semiconductors of the Academy of Sciences USSR) April 24, 1962 SUBMITTED: Card 2/2and the second

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24. 7 2 2 2 24. 7 7 0	h31h2 8/181/62/004/011/049/049 B108/B186	
AUTHORS:	Smolenskiy, G. A., Yudin, V. M., and Sher, Ye. S.	
TITLE:	A new group of antiferromagnetics with K ₂ NiF ₄ -type structure	
PERIODICAL:	Fizika tverdogo tela, v. 4, no. 11, 1962, 3350-3351	
B ²⁺ = Ni ²⁺ , C ions B and A consist of pe magnetic mome (B-O-B or B-O may be indire of the magnet examined over phase reactio	nds of the type $A_2^{3+}B^{2+}O_4$ ($A^{3+} = La^{3+}$, Ce^{3+} , Pr^{3+} , Nd^{3+} ; o^{2+}) are antiferromagnetic when either the ions B or both the have magnetic moments. Crystals of this type are assumed to rovskite-type layers mutually displaced. When only the B have nts, interaction will occur through one or two oxygen atoms -O-B). When also the ions A have magnetic moments, interaction ct or direct (A-O-A, A-O-B, A-A). The temperature dependence ic susceptibility λ of the compounds La_2NiO_4 and Nd_2NiO_4 was the range 77-1100°K. The specimens were obtained by solid- n at 1200°C of the materials La_2O_3 , Nd_2O_3 , and NiO. The 0, obtained by extrapolation of $1/\lambda$ (T) from high-temperature	
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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549110015-4 s/181/62/004/011/049/049 A new group of antiferromagnetics ... B108/B186 regions, equals 500° K for La₂NiO₄ and 440° K for NÅ₂NiO₄. The effective magnetic moments as determined from the inclination of the $1/\chi(T)$ curve is 3.7 Bohr's magnetons for La_2NiO_4 and 7.5 Bohr's magnetons for Nd_2NiO_4 . The dependence $\chi(r)$ is linear at high temperatures but tends to a maximum corresponding to phase transition on approaching the Neel point. This is characteristic of weak ferromagnetics. The antiferromagnetic behavior of the substances in question can be inferred from the negative sign of the temperature 0; however, a weak ferromagnetism may arise as the result of relativistic interactions. There are 2 figures. ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of Semiconductors AS USSR, Leningrad) July 26, 1962 SUBMITTED: Card 2/2

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	Numerovalutoryr griadry 1 km prizeradyr sonruk story, WD. 4. (Bardadur o'r bytres an End Apilouitar Gollerian o'r Articles, 50. 4) Masov, 111-0 "Saw shryn mulo", 1500, 421 p. Errada slip inservi.	M. (Tatle page): Ma. A. Polovy, B., (Laside Souk): J. M. Volkowi Peth. Eds. [A. A. Swahalaov Ethonical Sanch: Ma. J. Nethols: (Rep. 201), M. A. Baranov, L. G. Bargel'son, M. Broyde, Fo. L. Gallparte (Seput Nety. Ed.), To. A. Ensagetsty, S. P. Eurory, M. Y. Swahalov, A. M. Endensty, L. P. Mikolav- raty, M. A. Petho, and L. P. Swamanov.	Fugeos: This collection of writicles is for brohmisians and scientists sorting in the field of sectionativity.	CONTRACT: These articles cover the following poblera: physical provenues on unrited is emicantum dioles and transissory insulator partnersers, and actual and instruments for measuring they postual formutes of transistor operation to explicitly and oscillating formutes and structures at system unlittle. Thus- sistory. Breath entities mention percondition, thefenane accordant public	ettelet. Jamentititi <u>11.4.</u> Betrola of Measuring Mulo Propercy Fransisian Rev. 101 Betra autor characterisa frequency properties of non-diffi transis- ter any parameters of in setundari clinici.	Kamperskirg, Tu.A., and Tu.A. Sor. Mearmment of Cucoff Property 134 in the 20-200 me flast The method of mearing current arguithmetics cruciff Property in the 20-200 me bening or transitions in grounded have circuits	is commission. Larvin, V.L. Mattaal System of Static Transletor Parmeters Mapping System of Junction transletor Parmeters Permits simplification of a number of arguitter Frage Tatics.	Nerry, 5.76. Justice fractions full when thread thread for Elgh 1/3 Encoded at Falwage between the parameters of a justice transition The maintenest parameters of a justice transition the collector and the heat without a geometric and the collector and the heat without a full and of the model of the senticed. Full maintains a thread at the full dimensional walking at the transition thread at output are saimabled	MURINARY ANA EVENTION OF THE SALL OPERATES CONTINUES OF 179 Type There there are an and the sall operates Conditions of 179 We have of the relation to the same the function of the relation of the relation between adminishing one contrasting parameters is not the relation and their electric operating parameters is a contrasting (Net II) and the relation thereing parameters is multiple (the fully of the relation the function frantishors at Hick 13) must be the relation of derivation the relation frantishors at Hick 13) must be the relation of the relation the relations is a circuit benuise of the relation of the relation that a circuit the relation the relation of the relation that a circuit	<pre>bedraws, a.w. below of Steeling Mighther Thurstone for OpenHild 20 is a Falancia (could or when tractions pairs should be selected for provide the provided effects with a source active last, for the structure is the priority of effects with a source active last, wrecht prior between is a spirate active active last. both for a first sources is a spirate active active last.</pre>	Bortasy A.L. Juliuse Distortions in Junction Translator Applificate. 200 Bortasy properties of junction in Workshores are actedly emailed and the analytical expensions for manufacture horizontal distortions are established. A lowerithm is given of system fractures of analytic distortions at Add Frequestion. They is no emailed	disordina is cultive reclass which will be the function of bulk-backet download with the Backling and Aplification of Bulk-backet Describes of shouldy function contraction is included by the structure and the state of a second in the land of direction for ground a scient set on the source and second is made of direction with ground a scient set on the source and second is stored.	<pre>weightyres.feates and Lite fontationnes. Amplitates Stand Haput Expedient of A Grown Princips Trustation the second state for the second state for the Endemiest structure that show the for the second state for the above of a structure takes, the state for the second state a struct between a structure takes, satisfiest and state a structure between a structure takes, satisfiest and states.</pre>	
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varies gradually in the real structures; hence, a better model consisting of three segments (accelerating, maximum, decelerating) is suggested. The voltage variation across the collector junction is different in alloy and drift transistors. Approximate formulas for the charge density in alloy and diffusion junctions are developed. Specific formulas for the equivalent velocity are: for Ge collector junction,

 $v_0 = \frac{v_{max}}{1 + (\frac{v_{max}}{v_{av}} - 1)\Lambda u_{zk}}$; for Si collector junction, $v_0 \approx \frac{v_{av}}{V\Lambda u_{zk}}$. Corrections for

a-c conditions are introduced. A model of the emitter junction is briefly analyzed. Generalized formulas for differential parameters. Small-signal y and h parameters of a theoretical model with a "multilayer" base are determined on the basis of conventional Shockley boundary conditions. The reasons why these formulas are inaccurate are specified. Then, the modulation of minority-carrier velocity in the base is allowed for, and a technique is shown for deriving more accurate differentialparameter formulas. Parameters of a theoretical model having a uniform distribution of the drift velocity in the base. As an illustration of the above approach, formulas for the open-circuit forward- and reverse-current transfer factor are developed, and the effect of boundary conditions on the forward parameters is analyzed. These conclusions are offered: (1) The concept of equivalent velocity facilitates formulation

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of collector-base boundary conditions; (2) This concept permits developing general differential-parameter formulas which allow for the base "multilayer" structure and actual d-c and a-c boundary conditions; (3) Collector-junction voltage variation, with a nonuniform distribution of impurity N(x) at the base edge causes equivalent-velocity modulation at the boundary due to variation of the slope of E(x) field curve in the junction; (4) The collector-junction voltage variation may cause a modulation of the equivalent velocity in the base; (5) A variable charge density, with a constant voltage across the emitter junction, is possible due to modulation of the equivalent velocity in the base, at the emitter boundary; (6) To formulate the boundary conditions in the base, at the collector, a three-segment model of the reverse-biased collector junction is established; (7) The boundary conditions at the emitter are determined with an assumption that the drift velocity at the emitter junction can be averaged; (δ) In comparing the new transistor model with the conventional (Shockley) model, it should be kept in mind that the true field distribution E(x) in the base and the absolute field value |E| have not been measured so far; (9) The author's formulas hold true when the field strength and M and D factors are independent of the concentration of the injected (at low level) minority carriers. "The author wishes to thank Yu. A. Kamonetsky for discussing the problems of this article." Orig. art. has: 1 figure and 158 formulas.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 004

Card 3/3

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30124 S/194/61/000/007/040/079 9,4310 (1139,1143,1159) D201/D305 AUTHORS : Kamenetshiy, Yu.A. and Sher, Yu.K. Cut-off frequency measurement in the 20-200 mc/s TITLE: band Referativnyy zhurnal. Avtomatika i radioelektronika, PERIODICAL: no. 7, 1961, 21, abstract 7 D138 (V sb. Poluprovod-nik, pribory i ikh primeneniye, no. 4, M., Sov. rad-io, 1960, 128-138) A method is given of measuring the current amplification TEXT: cut-off frequency in common base connection. The voltages U_1 and U_2 at the resistances R_e and R_c in the emitter and collector circuits respectively are proportional to the respective currents. These voltages are applied in an anti-phase after detection and amplification to an adder. At LF $|U_1| / |U_2| = |I_c| / |I_e| = \alpha_0.$ Card 1/2Contract Contract Contract 2月24年11月1日,4

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30124 S/194/61/000/007/040/079 Cut-off frequency measurement... D_{201}/D_{305} The gain of one of the circuit channels is varied until zero indication of the indicating instrument is obtained $|U_1| = |U_2|$. The resistance R_c is then increased $\sqrt{2}$ times and the HF varied until zero indication is again obtained. This is the required cut-off frequency, since at this frequency $|\mathbf{I}_{c}| / |\mathbf{I}_{e}| = \alpha_{c} / \sqrt{2}$ The effect of parasitic parameters of the junction transistor and of the circuit is analyzed in detail. Formulae are obtained for evaluating the measurement errors. The measuring junction transis-tor and junction diode circuits are given. 3 references. Ab-stracter's note: Complete translation 7 ŧ., Card 2/2

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9.	Monthly List of Russian Accessions, Library of Congress,1953, Uncl.	
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SHEE, Yu. N.

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"Investigation of the Shape Deformation of the Facings of Hallow Carpenter's Benches." Cand Tech Sci, Moscow Forestry Engineering Inst, Min Figher Education USSR, Moscow, 1955. (KL, NO 18, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USIR Higher Educational Institutions (16).

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MILOV, Sergey Grigor'yevich; SHKR, Yuliya Mikhaylovna; OBRAZTSOV, S.A., redaktor; TRUBNOVA, L.A., FEGARTEF; RGAPOV, F.F., tekhnicheskiy redaktor

[Work methods of innovators in sawmilling and woodworking] Metody truda novatorov lesopileniia i derevoobrabotki. Moskva, Goslesbumizdat, 1955. 17 p. (WIRA 8:7) (Woodworking industries)

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Finansirovaniye i kreditovaniye karital'nykh vlozhonly (by) P.D. Fodshivalenko (i) I.D. Shera. Moskva, Gosfinizdat, 1960. 376 p. tables. Bibliographical footnotes.

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SHERH.K.

85-8-16/18

AUTHOR: Shera, K.
 TITLE: Plotting the Polar of a Glider Model on the Basis of a Practical Experiment (Eksperimental'noye polucheniye polyary modeli planera)
 PERIODICAL: Kryl'ya Rodiny, 1957, Nr 8, pp. 28-29 (USSR)
 ABSTRACT: The author describes a way of finding out the optimum angle of attack for a given glider model by plotting the polar of the model on the basis of a practical experiment. First, he explains in detail how the gliding angle of a

First, he explains in detail now the griding and the glider model may be determined by photographing the flight of the model against the background of luminous points, and then he offers a series of elementary formulas permitting to figure out the aerodynamic efficiency K of the model, and the lift force C_y , and the drag C_x the model with a given angle of attack will develop under definite conditions of temperature t° and atmospheric pressure P. The author indicates also that photographing the flight of a glider model in an artificially agitated air may contribute to appraising the

Card 1/2

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APPROVED FOR RELEASE: 07/13/2001

85-58-1-26/28

AUTHOR: Shera Karoy

TITLE: Aerodynamics of Model Airplane Profiles (Aerodinamika aviamodel nykh profiley); Helicopter Model (Model' vertoleta); World Champions' Models (Modeli chempionov mira)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 1, Supplement (USSR)

- ABSTRACT: The author discusses aerodynamics as applied to model airplanes and describes certain models and their construction. There are 29 sketches and diagrams,
- AVAILABLE: Library of Congress

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Mar., Mair Scotl. Physics, Pedacerical Inst. im. N. N. Pokrovskiy, Leningrad, -1991-. "Determination of Goefficient of Absorption of Slow Neutrons in Later," Zhur. Misser. i Teoret. Fig., No. 6, 1:36; "The Velocity of electric Polarization of Rochelle Salt Crystals," ibid., 12, . os. 1-2, 10/2.

SHERASHOV, S.G. (Leningrad)

Gertain characterisitics of reflex regulation of blood circulation and respiration in surgical shock. Arkh.pat. 18 no.6:70-76 '56. (MIRA 9:12) 1. Iz kafedry patologicheskoy fiziologii (nachal'nik - chlen-korrespondent AMN SSSR prof. I.R.Petrov) Voyenno-meditsinskoy ordena Ienina akademii imeni S.M.Kirova. (SHOCK, experimental, reflex regulation of blood pressure & resp. in post- evisceration shock (Rus)) (BLOOD PRESSURE, physiology, reflex regulation in exper. post-evisceration shock (Rus)) (RESPIRATION, physiology, same)

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STERASHOV, S.G., podpolkovnik med.služby, kand. med. nauk Mechanical injuries and irritations induced by the intestinal contents in the development of early complications of intestinal wounds. Voen.-med. zhur. no.6:80-81 Je '58. (NIRA 12:7) (HTESTINES--WOUNDS AND INJURIES)

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VASADZE, G.Sh.; SHERASHOV, S.G.

Change in sensitivity to visceral trauma of animals in radiation (MIRA 13:2) sickness. Med.rad. 4 no.10:59-66 0 '59.

1. Iz kafedry patologicheskoy fiziologii (nach. - chlen-korrespondent AMN SSSR prof. I.P. Petrov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova. (RADIATION INJURY exper.)

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(WOUNDS AND INJURIES exper.)

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SHFRAYZIN, S.M.

Use of transistor fiedes for stabilizing the operation of relexation of coloration of coloration (MIRA 17:2)

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ACC NR: AR6013876 SOURCE CODE: ON O214/09/001/ 47	
P. I.	
AUTHOR: <u>Sherayzin</u> , J. M. TITLE: An analysis of the passage of an index signal through the electric sections of a control system	
SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 11B178	
ppp couper. Tr Uchebn, in-tov svyazi, vyp. 25, 1965, 123-130	
REF SOURCE: IF. Communication, signal activity, color TV, color TV tube, electron beam, TOPIC TAGS: communication, signal activity, TV receiver	
in a distortion, name surry and some of	
ABSTRACT: Index signals, which determine the position of the electron beam on the screen of a picture tube with color bands, undergo in a television receiver a series of transformations. The phase shift emerging with the transformations may lead to dis- tortions in the color transmission. A mathematical expression of the index signals was derived. The output voltage of a four-terminal network to which the index signals were supplied was calculated. An aperiodic amplifier, low frequency filters of type k and m, a band-pass filter of type m, and single oscillator circuit were chosen as concrete examples of a four-terminal network. A numerical calculation showed that in the latter case the phase shift can exceed 10°, and in the first case it is a fraction of a degree. With the correct selection of the parameters of the low frequency filter the phase shift does not exceed 1°. In all cases special measures must be taken to UDC: 621.397.62-2	
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AUTHORS :	Al'perovich, L.I., Sherbar, 1.D. and Marupov, R. On the Origin of Luminescence of Liquids Under the Action
MUTHORE.	a the Origin of Luminescence.
TITLE:	of Hard Radiations 19 1960, Vol 8, Nr 2,
PERIODICAL	: Optika i spektroskopiya, 1900, mp 250 - 261 (USSR)
ABSTRACT :	pp 259 - 261 (USSR) The authors compared intensities of luminescence of certain aromatic and non-aromatic solvents and solutions excited with X-rays from a tube across which voltage was excited from 30 to 200 kV (at these voltages Vavilov- varied from 30 to 200 kV (at these voltages Vavilov- Cherenkov radiation is not emitted). The same samples were subjected also to excitation with γ -rays from Co ⁶⁰ (10 millicuries), using a technique described by Kallman and Furst (Ref 1). The intensity of luminescence was measured with a photomultiplier FEU-19M. In measurements using X-rays the effect of secondary and scattered radiation was allowed for. The authors measured the concentration dependences of the intensity of luminescence of solutions of anthracene, naphthalene, β -naphthylamine, phenanthrene and stilbene/in xylene,
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L 43083-65 EWT(1)/EPF(c)/EEC(t)-Pi=4 - ACCESSION NR: AT5011181	UR/0000/64/000/000/0267/0275
AUTHOR: Ivanov, A, P.; Sherbaf, I.	• D• 28 27 B+1
TITLE: Dispersion of a projection	in a turbid medium
SOURCE: Mezhvedomstvennoye sovesho atmosfery. 5th, Moscow, 1963. Ak	tinometriya i optika atmosfery
(Actinometry and atmospheric optics Izd-vo Nauka, 1964, 267-275	
TOPIC TAGS: <u>light dispersion</u> , atmo photometric instrument	ospheric optics, projector beam,
of a narrow heam of light has been	l investigations of the dispersion conducted under laboratory conditions,
in which all optical constants of effect on the dispersion can be de	the medium are known and their termined. The results of these icularly the analysis of angular and
polarization characteristics of di	spersed radiation. The measurements
liquids. The container was illumined and 1/2	Hardn by a marrow, bernered

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L 43083-65	and a start of the s I start of the start	
ALCESSION NR: AT5011181 chromatic beam of light guide, the degree of po persed radiation could	. Thanks to a special attachment to the larization, as well as the brightness of d be measured at various angles of observati parts. The following systems were used	as
and at various points turbid media: milk, ro barium hydroxide. The ically with detailed ex analyzed dealt with the	esin, silver chloride, standous encounted g experimental data obtained are presented g planation in the text. The investigations of light which was basically outsid field of light which was basically outsid ronagation of the parallel beam of light.	raph- e the It uc-
is planned to condition ture of the field of li projector beam. Orig.	further investigations dealing with the set light in the dispersing medium in the zone of art. has: 6 figures and 1 formula. [Jo fiziki AN BSSR, Minsk (Institute of Physi	
AN BSSR) SUBMITTED: 25Nov64	ENCL: 00 SUB CODE: OP	
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ACC NRI AP6011374 SOURCE CODE: UR/0362/66/002/003/0312/0315	
AUTHOR: Ivanov, A. P.; Sherbaf, I. D.	
ORG: Physics Institute, Academy of Sciences BSSR (Akademiya nauk BSSR, Institut fiziki)	
TITLE: Effect of the angular dispersion of a light beam on its penetration into a scattering medium	
SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 3, 1966, 312-315	
TOPIC TAGS: optic property, ocean property, oceanography, light dispersion, light scattering,	
water 2	
ABSTRACT: The problem of the effect of the angular <u>dispersion of a light beam</u> on illumination in a turbid medium was investigated experimentally. The experiments were set up in a small basin filled with turbid water. The method of investigation was such that it was possible to change both the angular aperture of the radiator from 0.5 to 180° at a constant luminous flux	
change both the angular aperture of the radiator from or medium, the probability of photon entering the water and the optical characteristics of the medium, the probability of photon survival, and the optical depth. The cross sectional area of the light beam entering the water was 3.14 cm ² . The authors examined the region of small optical depth which corresponds to a slightly turbid atmosphere, space, and water to shallow depths; the region of average optical	_ •
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depths; and the region of large optical depths. It of photon survival, the slower the illumination of aperture angle. At large optical depths illumina radiator but not as much as could be expected. I magnitude but only by a factor of 2-3 when an ac pletely diffusive one. Orig. art. has: 4 figures	lecreases with an increase of the radiator tion depends on the angular dimensions of th Illumination drops not by several orders of cutely directed radiator is replaced by a con	e
SUB CODE: 20,08/ SUBM DATE: 05Oct65/ 0	ORIG REF: 001/ OTH REF: 000	
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ACC NR: AF6017594 SOURCE CODE: UR/0250/66/010/001/0018/0021]	
AUTHOR: Ivanov, A. P.; Sherbaf, I. D. 43	•	
ORG: Institute of Physics, AN BSSR (Institut fiziki AN BSSR)		
TITLE: Influence of the polarization properties of external radiation on the illumi- nation of different sections of a turbid medium	-	<i>y</i>
SOURCE: AN BSSR. Doklady, v. 10, no. 1, 1966, 18-21	ĺ	
TOPIC TAGS: light polarization, radiation intensity, light scattering, light polariza- tion, ALCATION OPTICS		
ABSTRACT: To check on a hypothesis that in a strongly turbid medium the orientation of the intensity vector of the external radiation would be less important than in a weakly turbid medium, and to obtain quantitative estimates of this difference, the authors have experimented with the influence of the electric-intensity vector orienta- tion on the <u>illumination produced by radiation in a light-scattering medium</u> . The in- vestigations were carried out with apparatus described earlier (Opt. i spektr. v. 18, no. 4, 1965). The polarization plane was rotated with the aid of a polaroid. The theory of the experiment is briefly described. The tests were made with the optical receiver immersed in the turbid medium to different depths. Plots are presented of the percentage change of electric intensity against the orientation of the electric vector and against the extinction coefficient. The results show that the larger the extinction coefficient, the smaller the influence of the polarization angle on the		
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ACC NR: AP6017594 intensity. The plots of the change of intensity against the polarization angle are symmetrical about the value at 90°, at which their relative change of intensity has symmetrical about the value at 90°, at which their relative change of intensity has a maximum. It is concluded from the results that at large distances from the point of penetration of the light into the medium, or in the case of strong turbidity, dif- ferences in the orientation of the electric intensity vector of the incident radiation do not change the illumination noticeably. However, when the turbidity is low and the multiple scattering is small, the illumination may change by a factor of two as the angle of polarization changes from 0 to 90°. This report was presented by AN BSSR Academician B. I. Stepanov. Orig. art. has: 2 figures. SUB CODE: 20/ SUBM DATE: 28Aug65/ ORIG REF: 003	-
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	t values of the ext ne equare of the ex- l t was shown the mation of light in n 10, obeys the ex	at as a result of	dine of the c	< 0.05 cm	:
is less that	n 10, obeys the ex	UDC: 535.2	32/58		
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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549110015-4 AP6030717 ACC NR: Law). However, in media with larger coefficients of extinction, the exponential law of absorption is not obeyed at any depth, with the illumination at constant τ increasing with the increasing coefficient of absorption. As t was increased at constant $\Lambda = a/(k + a)$, where k is the tarbidity and o is the absorption coefficient, the intensity of the seattered light was observed to increase, reach a peak, and to be described to a limiting value equal to i/E_0 , where E and E_0 are the illumination the decourse the contract the metric, respectively. As a increased the peak and the regard least the discontinuation illumination, which depends only on the startest salet, each action is sharper to action the maximum illumination is sharper has an enclosed of the orige and then the figures and i formula. DUB COARSE 20/ BOBM DATE: BUGep65/ ORIG REF: 005/ ATD PRESS: 5084 Creak

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ACC NR: ANUX4336 AUTHON: IVANOW, A. P.; Sherbaf, I. D. ONG: none TITLE: Influence of optical parameters on the <u>scattering of a narrow beam of light in</u> a turbid medium SOURCE: AN BSSR. Vestsi. Seryya fizika-matematychnykh navuk, no. 1, 1966, 121-127 SOURCE: AN BSSR. Vestsi. Seryya fizika-matematychnykh navuk, no. 1, 1966, 121-127 SOURCE: AN BSSR. Vestsi. Seryya fizika-matematychnykh navuk, no. 1, 1966, 121-127 SOURCE: AN BSSR. Vestsi. Seryya fizika-matematychnykh navuk, no. 1, 1966, 121-127 SOURCE: AN BSSR. Vestsi. Seryya fizika-matematychnykh navuk, no. 1, 1966, 121-127 SOURCE: The scattering, turbid medium, photon scattering, optic property TOFIC TAGS: light scattering, turbid medium, photon scattering, optic property ABSTRACT: The authors report the results of optical measurements made by a procedure ABSTRACT: The authors report the results of optical measurements will and which are suit- they developed and described elsewhere (Optika i spektroskopiya v. 18, no. 4, 1965 and they developed and described elsewhere. The measurements were made in a small cell carlier) for producing turbid media whose parameters can be varied and which are suit- carlier optical scattering measurements. The measurements were made in a small cell cable for optical scattering measurements with the illumination in various sec-	
earlier) for producing turbid measurements. The measurements measurements is the measurement of the measure	
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SHERBAF, I.D.; IVANOV, A.F. [Ivanou, A.P.]

Design of apparatus for studying various properties of lightdiffusing objects. Vestsi AN BSSR. Ser. fiz.-tekh. nav. no.2: 39-43 '62. (MIRA 18:4)

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TITLE: The effect of the angular aperture of an emitter on the illumination in a scattering medium SOURCE: AN ESSR. Doklady, v. 9, no. 5, 1965, 301-304 TOPIC TAGS: turbid medium, scattering medium, illumination ABSTRACT: Scattering turbid media (milk and rosin) were used to investigate ex- perimentally the dependence of illumination on the angular aperture of the emitter. It was concluded that 1) for small optical thicknesses, the role of the solid angle ture leads to a sharp increase in the depth of penetration of light into the medium; 13) at given optical depths, depending both on the angular aperture anda on the coefficient of scattering and absorption of the angular apertures, attains a maximum; and 3) for large optical thicknesses at dif- a medium remains unchanged—the angular aperture affects the illumination, but the Cowd 1/2	L 54790-65 ACCESSION NR: AP5015779 AUTHOR: Ivanov, A. P.; Sherbaf, I. D.	UR/0250/65/0	009/005/0301/0304	
SOURCE: AN ESSR. Doklady, v. 9, no. 5, 1965, 301-304 TOPIC TAGS: turbid medium, scattering medium, illumination ABSTRACT: Scattering turbid media (milk and rosin) were used to investigate ex- perimentally the dependence of illumination on the angular aperture of the emitter. It was concluded that 1) for small optical thicknesses, the role of the solid angle subtended by the emitter is important since a slight decrease in the angular aper- ture Jeads to a sharp increase in the depth of penetration of light into aperture and on the coefficient of scattering and absorption of 'the angular apertures, attains a maximum; and 3) for large optical thicknesses at dif- a medium remains unchanged—the angular aperture affects the illumination, but the		an emitter on the il	13 Lumination in a	
TOPIC TAGS: turbid medium, scattering medium, tilumination ABSTRACT: Scattering turbid media (milk and rosin) were used to investigate ex- perimentally the dependence of illumination on the angular aperture of the emitter. It was concluded that 1) for small optical thicknesses, the role of the solid angle subtended by the emitter is important since a slight decrease in the angular aper- ture leads to a sharp increase in the depth of penetration of light into aperture and on the coefficient of scattering and absorption of 'the angular apertures, attains a maximum; and 3) for large optical thicknesses at dif- a medium remains unchanged—the angular aperture affects the illumination, but the	•			
ABSTRACT: Scattering turbid media (milk and rosin) were used to investigate ex- perimentally the dependence of illumination on the angular aperture of the emitter. It was concluded that 1) for small optical thicknesses, the role of the solid angle subtended by the emitter is important since a slight decrease in the angular aper- ture leads to a sharp increase in the depth of penetration of light into aperture and, on the coefficient of scattering and absorption of 'the angular apertures, attains a maximum; and 3) for large optical thicknesses at dif- a medium remains unchanged—the angular aperture affects the illumination, beam incident on	TOPIC TAGS: turbid medium, scattering medium,	tllumination		
a medium remains unchanged-the angular aperture affects the illumination, but the	Derimentally the dimension of the the did re	JEID) Were used to 4.	minati	
	subtended by the emitter is important since a s ture leads to a sharp increase in the depth of the medium; 128) at given optical depths, aperture and, on the coefficient of scatterin turbid medium, the relative change in the illum angular apertures, attains a maximum; and 3) for ferent depths, the volc of the set	knesses, the role of light decrease in th penetration of li depending both on ng and absorption ination, correspondi r large optical thic	e of the emitter. f the solid angle te angular aper- ight into the angular of the ng to different	

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BYK, S.Sh.; SHERBAK, L.I.; STROITELEVA, R.G. يدلا كالبتناوتان تنازعه Phase equilibriums in the system: phenel - water - methylethyl ketene. Part 2. Zhur.fiz. khim. 30 no.2:305-312 F 156. (MLRA 9:7) (Phase rule and equilibrium) (Ketone) (Phenols)

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SHERHAKOV, A.A.; YUR'YEV, Yu.K.
Preparation of furfurole from agricultural wastes and from plant materials. Zhur.prikl.khim. 29 no.1:110-118 Ja '56. (MLRA 9:5)
1. Moskovskiy gosudarstvennyy universitet i Vinnitskiy gosudarstvennyy Meditsinskiy institut. (Furaldehyde)

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25903 s/121/61/000/002/001/005 A207/A101

1100 Voronin, A. A., Markov, A. I., Sherbakov, M. A. AUTHORS: Ultrasonic vibrations in grinding cutting tools

Stanki i Instrument, Mashgiz, no. 2, 1961, 14 - 16 PERIODICAL:

Previous investigations of the authors (Ref. 1) have shown that excitation of low-amplitude high-frequency vibrations in flat grinding of heatresistant alloys and tool steels improves considerably the quality of the surface. Further experiments were conducted to investigate the effect of forced ultrasonic vibrations in grinding on the wear-resistance of the cutting tools. High-speed P 18 (R-18) steel and $BK \overline{8}$ (VK8) sintered carbide plates were studied. The vibration parameters were: frequency, 22 kc, and double amplitude, 0.01 - 0.015 mm. The wear resistance was evaluated on a continuously turning heat-resistant alloy. The experiments showed that, in all cases, grinding with ultrasonic vibrations considerably improved the wear-resistance of the cutting tools. For the R18 steel cutters the greatest improvement was observed in the range of higher cutting speeds. Test data showed that the wear-resistance of the VK8 cutters (92% tungsten carbide, 8% cobalt) ground with ultrasonic vibrations was more than twice that of conventionally

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Ultrasonic vibrations in grinding cutting tools

ground cutters. The $H \ni \int I$ -IV (NEL-IV) type magnetostrictional vibrator-nickel block was used as the source of mechanical vibrations. The vibrational head was power supplied from a $\Gamma \vee 3 - 5 \prod$ (GUZ-5P) ultrasonic generator, with a maximum output power of about 3.5 kw. The $\ni 5 60 C M H K$ (EBGOSMIK) sphere was used for the grinding of the fast-cutting plates, and the K4 60 C M H K- (KChGOSMIK) sphere-for the sintered carbide plate. The cutting tool resistance in both cases was determined by taking the usual blunting criterion - the magnitude of wear along the back edge equal to h = 0.6 mm. Figure 5 shows the relationship between the cutting speed and the resistance for the R18 tools ground with and without vibrations. The following v-T relationships could be derived from these graphs: 1) when working with tools ground with ultrasonic vibrations: $v = \frac{15.3}{T^0.16}$ m/min; 2) when grinding with tools

 $v = \frac{9.7}{T^{0.06}}$ m/min(T - service time). The results of comparative experiments of the resistance with VK8 plates ground with and without vibrations is given by the table: the data show that the resistance of the cutters ground at ultrasonic vibrations exceeds those ground without vibrations by a factor of two. It is pointed out that an even greater effect can be expected when grinding the tools with cooling. The authors derive the following conclusions from experimental data: 1)

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ACC NR AP6033911 SOURCE CODE: UR/0220/66/035/005/0796/0804	
AUTHOR: Loginova, L. G.; Golovacheva, R. S.; Sherbakov, M. A.	
ORG: Institute of Microbiology, AN SSSR, Moscow (Institut mikrobio- logii AN SSSR)	
TITLE: Thermophilic bacteria forming active cellulolytic enzymes	
SOURCE: Mikrobiologiya, v. 35, no. 5, 1966, 796-804	
TOPIC TAGS: enzymology, enzyme, cellulolytic enzyme, bacterial enzyme, bacteriology, thermophilic bacteria	
ABSTRACT: Thermophilic anerobic cellulose bacteria ferment cellulose more effectively in a mixed culture. Under laboratory conditions it was discovered that cultures of cellulose bacteria developed optimally when grown with Bac. stearothermophilus, Bac. lentus var. thermophilus, and thermophilic sulphate-reducing bacteria as symbionts. Maximum cellulolytic activity was observed at 60C and pH 5; extracellular cellu- lolytic substances were observed by the fourth day, by which time the bacteria have utilized 93-95% of the cellulose in the growth medium. Orig. art. has: 9 figures and 2 tables. [W.A. 50] SUB CODE: 06/ SUBM DATE: 19Jan66/ ORIG REF: 008/ OTH REF: 006 Cord 1/1 UDC: 576.8.095.38:577.154.33	
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KUREK, N.M., red.; SHERBAKOV, S.N., red.; ARSEN'YEV, L.B., red.; BOBORYKIN, Ye.P., red.; VISHJEVSKIY, A.V., red.; GORCHAKOV, A.V., red. GUSHCHIN, V.M., red.; DRUZHININ, B.N., red.; LEPILIN, G.M., red.; PEREL'SHTEYN, N.L., red.; TESLYA-TESLENKO, V.P., red.; AGRANATOV, Yu.O., tekhn.red.

> [Precast reinforced concrete members; planning and using] Sbornye zhelezobetonnye konstruktsii; opyt proektirovaniia i primeneniia. Moskva, TSentr. biuro tekhn.inform., 1958. 422 p. (MORA 11:5)

1. Russia (1917- R.S.F.S.R.) Ministerstvo stroitel'stva. Tekhnicheskoye upravleniye. (Precast concrete construction)

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CIA-RDP86-00513R001549110015-4"

KOPEYYOVSKIY, V.M.; SHERBAKOV, V.G.; GARBUZOVA, G.I.; IGOL'CHENKO, M.I.; RYAZANTSEVA, H.I.; TROYANDVA, N.L.

> Problem of the forced ventilation of sunflower seeds. Izv.vys. ucheb.zav.; pishch.tekh. no.1:20-23 \$59. (MIRA 12:6)

1. Krasnodarskiy institut pishchevoy promyshlennosti, kafedra tekhnologii zhirodobyvaniya. (Sunflower seed -- Storage)

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[Man and tehcnology; essays on engineering psychology] Chelovek i tekhnika;ocherki inzhenernoi psikhologii. Leningrad, Izd-vo Leningr. univ., 1963. 264 p. (MIRA 16:5) (Human engineering)

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·杨小子的学习。12月前的现在分词		3
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USSR/Organic (Chemistry - Synthetic Organic Chemistry, E-2	
Abst Journal:	Referat Zhur - Khimiya, No 1, 1957, 866	
Author:	Krasovitskiy, B. M., Pereyaslova, D. G., Kovalenko, O. D., and Sherbakova, L. I.	
Institution:		
Title:	Effect of Steric Factors on the Properties of Dyes Containing the Bi- phenyl Mucleus. III. Investigation of Disazo Dyes Derivatives of Biphenol, Phenanthrene, Fhenazone, and Phenanthridone	
Original Periodical:	Ukr. khim. mh., 1955, Vol 21, No 5, 614-618	
Abstract:	A comparative study has been made of the properties of disazo dyes (DAD) obtained from 2,7-diaminophenanthrene (I), 2,7-diaminophenazone (II), and 2,7-diaminophenanthridone (III) as the disazo constituent. The products obtained were compared with previously investigated DAD produced from benzidine (IV), 2,7-diaminofluorene (V), 2,7-diamino- phenanthraquinone (VI), 2,7-diaminodiphenyl ketone, and other 2,7- diamines (see Communication II, Referat Zhur - Khimiya, 1956, 61502).	
Card 1/3		

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 866

Abstract: I was prepared in b1% yield by the heating (5 hours at 225-230°) of 2,7-dibromophenanthreme with concentrated HNO3 in the presence of Cu_2Cl_2 and powdered Cu in a sealed tube. II was prepared by the reduction of 2,2'-dinitrobenzidine with Na-Hg, while III was prepared by the saponification of the diacetyl derivative with 0.5 N KOH (refluxing 4 hours). The DAD were obtained by coupling the disazotized I-III with H-acid (VII), 1-naphthol-4-sulfonic acid (VIII), or 1-amino-0-naphthol-2,4-disuironic acid (IX) in alkaline medium. DAD obtained from I or II with VII (I \rightarrow VII, λ_{max} 565 m/s, directness 55%) are close in color to DAD obtained from VI \rightarrow VII and are considerably more intense than those from IV or V with VII; this is apparently due to the electron-acceptor properties of the ethylenic bridge in I and of the azo-group in II. In directness the dyes from I and II occupy an intermediate position between those from IV and VI with VII. The transition from the DAD from II to those from 3,3'diaminoacobenzene (X) is characterized by the absence of diphenyl bonds, a sharp decrease in directness, and an intensification in the color (the composition of the dye, λ_{\max} in mµ, ε_{\max} , and directness in percent are indicated in that order): II \rightarrow VII, 560, 40,000,

Card 2/3

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OVES, Il'ya Semenovich, kand. tekhn. nauk; SAPOZHNIKOV, Il'ya Zinov'yevich; MARTSINSKIY, A.F., inzh., retsenzent; KONDRASHOV, A.V., inzh., retsenzent; SHERBAKOV, S.N., nauchn. red.; MORSKOY, L.K., red. izd-va; RODIONOVA, V.M., tekhn. red.

> [Organization of the supply and replenishment of materials and equipment for construction] Organizatsiia material'notekhnicheskogo snabzheniia i komplektatsii stroitel'stva; opyt raboty Glavmosstroiia. Moskva, Gosstroiizdat, 1963. 213 p. (MIRA 16:12)

(Construction industry --- Management)

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SHERBAKOVA, M.Y. Resolving power calculation and cycle selection for a three stage radiofrequency mass-spectrometer. Zhur.tekh.fiz. 27 no.3:599-605 Mr '57. (HLRA 10:5) 1.Gorno-geologicheskiy institit. Hovosibirsk. (Mass spectrometry)

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RUMANIA/Ore	ganic Chemistry - Synthetic Organic Chemistry. G.	
Abs Jour	: Ref Zhur - Khimiya, No 16, 1958, 53947	
Author	: Almashi, Sherban, Koloshi, Iliesh	
Inst	: Academy RPR	
Title	: Elemento-Organic Compounds. I. o,o-diethyl Esters of Arylsulfamidothiophosphoric Acids.	
Orig Pub	: Studii si cercetari chim. Acad. RFR Fil. Cluj. 1957, 8, No 1-2, 159-168.	
Abstract	: The reaction of (S) $P(CC_2H_5)_2Cl$ with p-RC6H4SO2NHNa in	
	polar solvents (pyridine, acetone, dioxane) yielded (S)P(OC_2H_5) ₂ NHSO ₂ C ₆ H ₄ R (I); (given: R, m. p. in ^O C,)	
	Cl, 95; f, 72; Br, 112; I, 135; CN, 117; H, 56; OCH ₃ , 113; CH ₃ , 84.	
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AUTHOR: <u>Kot. M. V.;</u> Par D. A.	nasyuk, L. M.; Simashkev	ich, A. V.; Tsurkan, A. Ye.;	Sherban.	
SOURCE: Fizika tverdogo	o tela, v. 7, no. 4, 196			
tion, voltage current cl	haracteristic, spectral	ful attempt to produce n-p he	tero-	
junctions ZnSeZnTe in ity carriers, and to obs current characteristic ward current was several at 5 V. The dependence ampere characteristics,	crystal-layer form, to serve intrinsic recombin of such junctions has th 1 milliamperes at 2 V, s of the short-circuit cu and the spectral distri	obtain effective injection of nation radiation. The voltage he usual diode character. The and the inverse current up to arrent on the illumination, the bution of the photo emf were current depends linearly on to . The samples were sensitive	- 1 for- 20 µA 10 lux- 1 nves- he 11-	
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52790-65		
CCESSION NR: AP501074	7	
	Recombination radiation was observed	
ight in the wavelength	he transmission direction of such a junction. The radia- he transmission direction of such a junction. The recombina-	
ion become visible at C	he transmission direction of such a galaxies. The recombina- nurrent densities on the order of 0.2 A/cm ² . The recombina-	
ion radiation occupies	the wavelength band in the interval 0.440.75 μ , and the the wavelength band in the interval 0.44 The corres-	
ntensity of the radiati	on increased with increasing out the the respective widths	
onding quantum energy 1	s 2.0 and 1.02 ev, which acresture (2.6 and 2.1 eV). The	
a the forbidden bands G	T ANSP AND ADDE GU LOUM DOMPORTON TO THE	
I UNE IOIDIUICH Dunab	dir is practically linear with the current, and at room	
ntegral radiation inter	isity is practically intratal 50 nit increasing to 150 nit at	Arheni ar
ntegral radiation inten emperature the glow bri	ishty is practically interview of nit, increasing to 150 nit at	an a
ntegral radiation inten emperature the glow bri iquid-hydrogen temperat	shiry is practically interest of nit, increasing to 150 nit at ghtness was approximately 50 nit, increasing to 150 nit at ture for a 1 mm ² junction area. "The authors are deeply . N. Nasledov for continuous interest in the work and valu-	in section of the sec
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SHERDAN, Mikhay SHERDAN, Mikhay [Sorben:Mihai]; FIMAN, Iosif; KOMAN, Dan [Coman, Dan] [Caves of Rumania] Peshchery RumyMii. Bucharest, Izd-vo "Meridiany," 1961. xxxvi p. illus. (MIRA 15:1) (Rumani--Caves)

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SHERBAN, M., FIMAN, L.

利用自己的利用

Similarity between underground and surficial river streams. Nov.kar.i spel, no.3:80-81 '63. (MIRA 16:10)

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SHERBAN, Ye.

New and little-known species of black flies of the group Eusimilium aureum Fires (Diptera, Simuliidae) from Rumania. Ent. oboz. 40 no.3:677-685 '61. (MIRA 15:3)

1. Institut speleologii, Bukharest. (Rumania--Black flies)

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SHERBAUM, L.

Standard planning and introduction of new technology. Stroi. mat., izd.i konstr. 2 no.9:4-7 S '56. (MLRA 9:11)

1. Zamestitel' predsedatelya Tekhnicheskogo soveta Ministerstva promyshlennosti stroitel'nykh materialov SSSR. (Cement industries)

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Academy of Sciences (Cont.)	SCV/5573			
The remaining articles discuss visual satell of photographic observations of the satellit personalities are mentioned. There are 2 re	lite observations and the ⇒s 1958 5 1 and 1958 5 g eferences: 1 Soviet and	e results . No l English.		
TABLE OF CONTENTS:				
Tiyt, V. M. [Institut fiziki i astronomii AN ES Institute of Physics and Astronomy of the Acade of the ESSR, Tartu]. A New Satellite-Tracking	my of Sciences	I		
Eynasto, Ya. E. [Institut fiziki i astronomii A gosudarstvennyy universitet - Institute of Phys of the Academy of Sciences of the ESSR, Tartu S Semiautomatic Telescope for Observation of Sate	ics and Astronomy tate University].	б		
Belenko, V. I., and I. A. Khasanov. [Moskva, A Astronomic Council, Moscow]. Determination of Ti for Six Points of the Satellite Track on Photog Means of a Camera with Moving Film (KPP) Design	me and Position	10		
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Academy of Sciences (Cont.)	SCV/5573			
Firago, B. A. [Glavnaya astronomicheskaya observatoriya AN Pulkovo Pulkovo Main Astronomical Observatory of the Ac- Sciences of the USER]. On Considering the Apparent Rotation the Celestial Sphere While Determining the Coordinates of S With the Aid of Photographs Taken With Azimith Cameras	n of	12		An ang a sa
Almar, I., and D. Pal. [Astronomic Observatory of the Acad Sciences of Hungary]. A New Mathod of Visual Satellite Obse by Means of AT - 1 Telescopes		14		
Turchaninova, E. V., and L. M. Sherbaum. Results of Photo Observations of Artificial Earth Satellites (Positions of 1953), and ϑ_2 According to Photographic Observations at nomical Observatory of Kiyev State University)	the Astro-	16		
Observers: O. I. Babich, P. N. Polupan, Ye. V. Sandakova, Zh. M. Shcherban'. Calculations: L. M. Sherbaum. Measur KIM-3 instrument	A. P. Stefanov, ements made on			
Card 3/4				

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SHERBAUM, L.N.

Results of photographic observations of the Ekho-1, 1960, artificial satellite at the Astronomical Observatory of Kiev University. Biul.sta.opt,nabl.isk.sput.Zem. no.26:21-23 ⁹62. (MIRA 15:7)

l. Astronomicheskaya observatoriya Kiyevskogo universiteta. (Artificial satellites---Tracking)

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CHERVYAKOVA, A.F.; PLUZHNIKOV, V.Kh.; GORELOV, Ya.P.; SHERBAUM, L.M.; KRYLOV, A.G.; SENTSOVA, Yu.Ye.; KHARIN, B.T.

> Results of photographic observations of artificial satellites. Biul.sta.opt.nabl, isk.sput.Zem. no.25:23-28 '62. (MIRA 15:7)

 Nachal'nik stantsii nablyudeniya iskusstvennykh sputnikov Zemli Instituta astrofiziki AN Turkmenskoy SSR (for Chervyakova).
Nachal'nik Khar'kovskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Pluzhnikov). 3. Nachal'nik stantsii nablyudeniy iskusstvennykh sputnikov Zemli Gosudarstvennogo astronomicheskogo instituta im. P.K.Shternberga (for Gorelov).
Astronomicheskaya observatoriya Kiyevskogo universiteta (for Sherbaum). 5. Stantsiya Astronomicheskogo soveta AN SSSR (for Krylov, Sentsova). 6. Nachal'nik Tomskoy stantsii opticheskikh nablyudeniy iskusstvennykh sputnikov Zemli (for Kharin). (Artificial satellites-Tracking)

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