The Electron Microscope UEMB-100 with Double-lens Condenser SOV/4&-2)-4-3/24

depicted by the condenser in the object plane. What the aid of the stignator, the image turns out very well. Investigations showed that the radius of the oathode tip, when not exceeding 12, does not exert any influence upon the quality of the image. The object lens consists of three parts. The upper part is situated in the object chamber, which is made accessible by a valve and which contains an object table. The central part contains the pole shoes of the magnetic lens and the aperture stop. The lower part is the actual object lens tube and contains the stigmator and the selective stop. The object table is movable and permits a turning and tilting of the object. Next, the mechanical facilities of the instrument, serving for the adjustment of the various elements of the object lens are described. Also modes of employment of the object lens for reflecting and diffraction pictures are described. The intermediate and projecting lenses are housed in a block. Their auxiliary elements are described. Tube and three observation windows and the camera are contained in the lower part of the microscope. The vacuum system of the instrument consists of a mechanical vacuum pump RVN-20 and a diffusion pump TSVL-100. There are 6 figures and 5 references, 3 of which are Soviet.

Card 2/2

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## CIA-RDP86-00513R001134110011-8



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#### CIA-RDP86-00513R001134110011-8

87:75 S/120/60/000/004/014/028 E032/E414

The Universal High-Resolution Electron Microscope 2/2009 100 (UEMV-100)

space by thin walls. The coll windings are supplied with alternating current, consisting of symmetri. retangular puises The coll windings are supplied with Currents in the upper and lower pairs of coils are 180° out of phase so that the fields produced by these coils are in opposite The focusing corrector serves to increase the directions. aperture of the illuminating system (Dorsten et al, Ref.3) In the present case the aperture angle is increased in one plane At the same time the depth of focus is reduced so that presise The corrector is focusing of the image is easier to establish. particularly convenient in the case of relatively small electron optical magnifications with subsequent high magnification of the When the corrector is switched on the image if not accurately focused, divides into two parts. The conditions under which this "doubling" disappears correspond to precise focusing. The paper is concluded with a general description of various other modifications including a special specimen table which can be used to select any given part of the specimen even under overall

Card 2/4

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brand Sizofooroonoofooloo Boszoration The priversal High-Resolution Electron Hicroscope YMMB-100 magnifications of 1.5 x 10<sup>6</sup>, a binocular viewing arrangement (diawing a magnification of x6 and a relatively large field of view (diawine 28 mm), and the pumping system of the microscope (diawine are expressed to Yu.M.Kushnir for assistance) there are 11 figures and 5 references: 3 Soviet and 2 non-Soviet. MMMITTED: July 4, 1959

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<u>L 442.26-66</u> EWT(1) ACC NR: AP6024635 SOURCE CODE: UR/0170/66/011/001/0022/0029		
AUTHOR: Mikhaylovskiy, G. A.	,	
ORG: <u>Institute of Water Transportation</u> , Leningrad (Institut vodnogo transport) TITLE: The problem of <u>evaporative cooling</u> of gases		
SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 11, no. 1, 1966, 22-29 wapurative TOPIC TAGS: gas dynamics. Voooling evaporation gas flow, compression, compressor pipt flow, gas flow, fluid in romine		
ABSTRACT: Cooling of gases in a pipe flow or during compression by means of liquid injection (evaporative cooling) leads to certain peculiarities in the behavior of the fluid. Due to the absorption of heat by the evaporating liquid, the properties of the gas or vapor vary considerably which is reflected by the change in the adiabatic exponent k. This problem was theoretically analyzed, and it was shown that k can change from 0 to $_{2\infty}$ depending on the intensity of evaporation. Three expressions were derived for k (k1,k2,k3) for processes in which p,V; T,V; or T,p are independent pairs of variables. The local values of k1,k2, and k3 were plotted as functions of the intensity of		
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<b>W</b> V 52	bling by Ha- r, Cand Tech Transport	-16	air, contg g JS diagram ty in com- and	231T38	Represents all	231238	
USSR/Engineering - Compressors, Processes	"On the Compreviou of Air With Cooling by Wa- ter Injection," G. A. Mikhaylovskiy, Cand Tech Sci, LIIVT (Leningrad Inst of Water Transport Engineers)	"Iz V-s Teplotekh Inst" No 5, pp 12-16	Studies compression process of satd air, water particles in suspension, using JS ( of satd air. Discusses heat capacity in pression process, adiabatic index, and		compression work in compressor. Rep relationships in graphical form.		
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10.4000 SOV/96-60-1-15/22 AUTHOR: \_\_\_\_Mikhaylovskiy, G. A., Candidate of Technical Sciences The Thermo-dynamic Basis for the Construction of Entropy TITLE: Diagrams for Steam-gas Mixtures Teploenergetika, 1960, Nr 1, pp 69-75 (USSR) PERIODICAL: ABSTRACT: In general, the condition of a steam-gas mixture is determined by three independent variables, so that analytical methods of calculation are complicated. Therefore, entropy diagrams for such systems are much needed, but cannot be constructed in one plane because there are three variables. Previous attempts to resolve this difficulty have resulted in diagrams that are inconvenient in use. However, if the steam-gas mixture is considered as an ideal gas, and use is made of certain latent properties of entropy diagrams, then a diagram can be constructed in one plane. The principles of construction of such diagrams are that the enthalpy of an ideal gas does not depend on the pressure and entropy is usually reckoned from some nominal condition, which may be chosen arbitrarily. When diagrams have been constructed, the plotted values of entropy serve only to express the Therefore, they may also be used to express the scale. Card 1/4

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代教师和法律上的影响 67646 SOV/96-60-1-15/22 The Thermo-dynamic Basis for the Construction of Entropy Diagrams for Steam-gas Mixtures entropy when any particular parameter, for example, pressure, is changed at a given point. It suffices to suppose that the origin of the diagram is altered. Thus a given point on the diagram may represent conditions that differ in respect of pressure. This in its turn means that in constructing the diagram one of the parameters may be fixed and this need not be the pressure. The principle that enthalpy is independent of pressure has to be used in different ways for different sets of conditions. The three characteristic regions that are distinguished in constructing the enthalpy diagrams for steam-gas mixtures are: quantities of steam in the mixture not greater than 20% by weight; high steam-content at temperatures below the critical temperature; and temperatures above the critical temperature. A special diagram is constructed for each of these three regions, and all the diagrams can be constructed for any gas with the vapour of any liquid, though the usual ones are air and steam. In order to extend the field of application Card 2/4

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SOV/96-60-1-15/22

The Thermo-dynamic Basis for the Construction of Entropy Diagrams for Steam-gas Mixtures

of diagrams of the first two types, it is necessary to extend the concept of relative humidity somewhat, employing the definition given in expression (2). significance of this is explained by a numerical example, and Fig 1 shows curves of changes in relative humidity as functions of temperature at constant pressure and constant proportion of steam by weight. In order to construct the entropy diagrams for steam-gas mixtures in one plane it is necessary to reduce the number of independent variables by one, which is done by fixing one of the parameters. For the first and second regions, where the temperature is below the critical value, it is convenient to fix the relative humidity. An entropy diagram for moist air in the first region is plotted in Fig 2. This diagram is simple and easy to use and has an extensive field of application. A combined entropy diagram for water vapour and a steam-air mixture is plotted in Fig 3, and this can be used to make all kinds of calculations on steam-gasmixtures at high steam-Card 3/4 concentration. The construction of entropy diagrams for

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#### CIA-RDP86-00513R001134110011-8

State Stat and the second 67646 Jul7/96-60-1-15/22 The Thermo-dynamic Basis for the Construction of Entropy Diagrams for Steam-gas Mixtures temperatures above the critical value is then described and such a diagram is plotted in Fig 4. The method of using it is explained. It is constructed for a single pressure and the way of allowing for this is explained. The diagram is particularly useful when the composition of the gas in the steam-gas mixture is the same in different calculations and only the amount of it in the mixture varies. Variations in the composition of the gas cause changes in the relationship between the specific heat and the temperature, so that the diagram gives erroneous results, though corrections can be made by special graphs. However, in such cases it is better to construct further diagrams, to allow for the change in composition of the gas. The principles described in this article may be used to construct such a universal diagram, which may be applicable not only to steam-gas mixtures but also to combustion products of fuel, and is simpler than other available diagrams. There are 4 figures, and 6 Soviet references. ASSOCIATION: Leningradskiy institut vodnogo transporta (Leningrad Institute of Water Transport). Card 4/4

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## CIA-RDP86-00513R001134110011-8



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# "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134110011-8 治人的科科研究院和学校中国科 27919 s/096/61/000/011/006/006 An I-S (enthalpy-entropy) diagram. E194/E155 where; $f_1(t)$ and $f_2(t)$ are temperature functions which are the same for all gases. Assuming for air an arbitrary value of $\beta = 1$ , and for pure combustion products without excess air a value of 1.5, we may find expressions for $f_1(t)$ and $f_2(t)$ and consequently also for $\beta$ in terms of the specific heats of air and of the pure combustion products. In this way the physical meaning of the coefficient $\beta$ can be seen. The following expression is then derived: (2) $\mu c_{p} = \mu c_{DB} + 2(\beta = 1) (\mu c_{DH} - \mu c_{DB})$ where the suffix H refers to combustion products and the suffix B refers to air. The coefficient $\beta$ is calculated from formula (19) of Ref.4 [Abstractor's note: Ref.14 mentioned but apparently incorrect]. If in formula (2) we substitute true wolar specific heat and integrate between appropriate limits, we obtain an expression for the enthalpy of the mixture at the given temperature as a function of one parameter, $\beta$ . (3) $I = I_{B} + 2(\beta - 1) (I_{H} - I_{B})$ Card 2/9

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新·会议的法规。 总过来说了这些社 27919 s/096/61/000/011/006/006 where  $I_B$  and  $I_H$  are the enthalpies of one mole of air and of the combustion products of normal hydrocarbon without excess air. Strictly speaking, a device of this kind cannot be used to obtain a formula for the calculation of entropy, because the actual entropy of a mixture is greater than that calculated from the simple rule of mixing by an amount equal to the entropy of mixing given by the following equation;  $\Delta S_{CM} = -1.9858\Sigma r_i \ln r_i$ ri is the volumetric or molar proportion of the i-th where (4) component of the mixture. If it is assumed that the origin from which the entropy of the gas mixture is reckoned is displaced by an amount equal to the entropy of mixing, which does not depend on  $\beta_1$  a formula for calculating entropy may be obtained in the same way as that for enthalpy, provided that the components are at the same pressure and temperature both before and after mixing. In this way the following expression is obtained:  $S = S_B + 2(\beta - 1) (S_H - S_B)$ Card 3/9 (5) H . 7

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#### CIA-RDP86-00513R001134110011-8

27919 An I-S (enthalpy-entropy) diagram ... s/096/61/000/011/006/006 E194/E155 Numerical values of enthalpy and entropy for each value of  $\beta$  may be taken from the table of Ref.4 for temperatures up to 1100 °C or may be calculated by means of formulae (3) and (5) using tables of the thermodynamic properties of gases. It will be seen that by using the coefficient  $\beta$  and displacing the origin for entropy the number of variables has been reduced to three and it is necessary to reduce them to two in order to plot curves. selection of the parameter to maintain constant is most important. Correct In the diagram of Lutz and Wolf (Ref.2) the principal curves are suitable only for dry air and so the diagram is constructed for a constant value of  $\beta = 1$ . However, to maintain  $\beta$  constant does not fully satisfy present requirements and it is better to make the pressure constant. Then the enthalpy and entropy corresponding to the conditions at the given point (with the set temperature for which the diagram was constructed) may correspond to the condition at other pressures, provided that the influence of pressure on the specific heat can be neglected. In order to represent on the diagram a number of conditions of different mixtures, lines of constant  $\beta$  must be constructed on it. Essentially they represent isobars for one and the same pressure for gases of IX Card 4/9

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27919 s/u9b/61/000/011/006/006 An I-S (enthalpy-entropy) diagram .... E194/E155 different quantitative composition. Thus the I-S diagram for air and combustion products may be constructed for a constant pressure of 1 atm and for 1 mole of gas mixture. The graph must contain curves for the isotherms, the isochores and lines of  $\beta$  = constant. At pressures of above 1 atm there is an error but it is negligible and does not exceed 0.5% at pressures up to 25-30 atm. A diagram of this kind can be used to calculate all the thermal processes encountered in practice. It is necessary to have only one auxiliary curve corresponding to  $\Delta S_D = 1.986$  in  $\pi$ , where  $\pi$  is the degree of change of pressure in the process, equal to the ratio of the maximum to the minimum pressure. This curve is plotted directly on the diagram. The complete diagram is illustrated in Fig.2 for air and combustion products over the most commonly used range. The y-axis gives enthalpy in kcal/mole and the x-axis entropy in kcal/mole degree; the inscription against Vo reads m<sup>3</sup> per mole. The method of use is as follows. At the point of intersection of the line  $\beta$  = constant with the isotherm for the given temperature, we find the enthalpy I and the volume of the combustion products  $V_0$  at a pressure of 1 atm and the given temperature. The actual volume of a mole at the given pressure P Card 5/ 9

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27919 \$/096/61/000/011/006/006 An I-S (enthalpy-entropy) diagram .... E194/E155 The final volume of a mole is found again by dividing Vo by P. A somewhat different procedure is required if the degree of expansion or compression is given instead of T. The I-S diagram proposed unites the positive features of the two best existing methods of graphical calculation, namely Lutz and Wolf's diagram of state and Rivkin's diagram of thermodynamic properties. The new diagram is very simple in use and it can easily be constructed in each particular case. It is only necessary to make one curve of  $\beta$  = constant for the given composition of gas and a curve of  $\triangle Sp = f(\pi)$ , choosing a scale to suit the degree There are 3 figures and 5 references: 4 Soviet-bloc and l non-Soviet-bloc. X Card 7/9

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15日4日9月25日第二日月日日

MIKHAYLOVSKIY, Georgiy Andreyevich; ZYSIN, V.A., kand. tekhn. nauk, retsonzent; ANNOL'D, L.V., prof., red.; MITARCHUK, G.A., red. izd-va; POL'SKAYA, R., tekhn. red.

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[Thermodynamic analysis of processes in steam-gas mixtures] Termodinamicheskie raschety protsessov parogazovykh smesei. Moskva, Mashgiz, 1962. 183 p. (MIRA 15:6) (Thermodynamics)

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CIA-RDP86-00513R001134110011-8"

# "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134110011-8 MIKHAYLOVSKIY, G.A., kand.tekhn.anuk Thermodynamic processes of steam-ras mixtures. Ieploenergetika 9 no.5:92-95 My '62. (Mirry 1):4) (Thermodynamics)

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# CIA-RDP86-00513R001134110011-8



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**已经用金式公式**包括 1 4 1 MIKHAYLOVSKIY, G.P. (Hoskva) Data on the effect of stimulation of interoceptors of the gastro-intestinal system on unconditioned defense reflexes. Report no.1: Relation of effects from interoceptors to the nature of the stimulus. Biul.eksp.biol.med. 42 no.7:13-18 J1 '56. 1. Predstavlena deystvitel'nym chlenom ANN SSSR V.N.Chernigovskim. (CASTROINT STINAL SYSTEM, physiology, eff. of mechanical stimulation on unconditioned defense reflex (Rus)) unconditioned defense, eff. of mechanical stimulation of (REFLEX, gastrointestinal system (Rus))

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# CIA-RDP86-00513R001134110011-8

S/030/62/000/012/003/C03 D036/D114

AUTHOR: Mikhaylovskiy, G.P., Candidate of Medical Sciences

TITLE: Some results of the development of space biology

PERIODICAL: Vestnik Akademii nauk SSSR, no. 12, 1962, 105-108

TEXT: Soviet research in space biology was summarized at a session held by the Otdeleniye biologicheskikh nauk Akademii nauk SSSR (Department of Biological Sciences of the Academy of Sciences of the USSR) on October 1-2, 1962, and opened by N.M. Sisakyan, Academician-Secretary of the Department, to commemorate the 5th anniversary of the launching of the first artificial satellite. The following subjects were discussed: Sisakyan: the effect of extreme flight factors on living organisms, the development of biological fundamentals for space flights and life on planets, and conditions and forms of extraterrestrial life. V.I. Yazdovskiy and O.G. Gazenko: research done during the "Vostok" flights. Yu.M. Volynkin and P.P. Saksonov: the biological effect of space flight factors. Saksonov, V.V. Antipov, and N.N. Dobrov: the proven freedom from radiation hazards of short orbital flights beneath the radiation belts. A.V. Lebedinskiy

Card 1/3

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S/030/62/000/012/003/00J D036/D114

Some results of .....

这些有不可能不能是我的问题。 如此,我们就是我们的问题,我们就是我们的问题,我们就是我们的问题。

> and Yu.G. Nefedov: the effect of prolonged small doses of ionizing radiation in view of experimental data which show that, due to the complex action of cosmic radiation and other factors, the reactivity of various systems of a living organism changes. Gazenko, I.T. Akulinichev, and R.M. Bayevskiy: splitting biological telemetry into (a) constant medical supervision, (b) medical research into specific reactions, (c) biological indication. Ya.A. Vinnikov, B.B. Yegorov and Gazenko: vestibular disturbances during weightlessness at many levels, including the cellular and molecular levels, where Yegorov and Gazenko studied this problem using microelectrodes. Lebedinskiy: methods for evaluating the reactivity of the vestibular analysor based on a study of the effect of positive and negative angular accelerations of various magnitudes on the vestibularvegetative reflexes; Titov's complaints of "sea-sickness" during weightlessness. N.N. Gurovskiy, M.D. Yemel'yanov and Ye.A. Petrov: the possibility and mechanism of adaptation of the vestibular analysor. A.D. Seryapin and V.P. Dzedzichek: regeneration of air in a space craft by photolysis of  $CO_2$  or electrolysis of  $H_2O$ for long space flights. A.A. Nichiporovich and V.Ye. Semenenko: so-called

Card 2/3

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## CIA-RDP86-00513R001134110011-8

**S/030/62/000/012/003/003** D036/D114

Some results of .....

teras and the

closed ecological system which will be necessary for long space flights or for a stay on another planet. A.F. Kleshnin: increasing the productivity of chlorella. A.I. Oparin: theories on the possibility of extraterrestrial life which should be based on a study of the general process of the development of matter, so as to establish whether life could have arisen during evolution of the given planet. The session noted the widening scope of space biology. Reports were also delivered on adynamy, artificial hybernation, engineering psychology, gravity and the brain's blood supply, physiological speech research in order to create automatic speech recognition systems, the effect of space flight on hereditary structure, and other subjects.

Card 3/3

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#### CIA-RDP86-00513R001134110011-8

# ACCESSION NR: AT4042642

systoles; this had also occurred during training tests. The character of daily variation of cardiac activity remained unchanged. Pneumographic data revealed no respiratory irregularities. Some increase in respiration rate was noted during the powered-flight phase; this had also been observed during centrifuge tests. No pathological change in physiological functions of either cosmonaut was observed during flight. During the powered-flight phase, functional shifts similar to those observed during centrifuge tests occurred. Definite changes in the functional state of various physiological systems took place during the first hours of orbital flight, as indicated by the inhibition of pulse-rate normalization and the character of EEG and cortical resistance changes. Changes in the character of EEG's during prolonged (3 to 4 days) weightlessnes indicate shifts in the interaction of excitation-inhibition processes in the higher levels of the CNS. However, the mental activity and neuro-regulatory functions of the cosmonauts remained at a high level.

ASSOCIATION: none Sucmines Just 63

Ca7d 4/5

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VOLYNKIN, Yu.M.; YAZLOVSKIY, V.I., prof.; GENIN, A.M.; GAZENKO,
O.G.; GUROVSKIY, N.N.; YEMEL'YANOV, M.D.; MIKHAYLOVSKIY,
G.P.; GORBOV, F.D.; SERYAPIN, A.D.; BAYEVSKIY, R.M.;
ALTUKFOV, G.V.; KOPANEV, V.I.; KAS'YAN, I.I.; MYASNIKOV,
V.I.; TERENT'YEV, V.G.; BRYANOV, I.I.; FEDOROV, Ye.A.;
FOMIN, V.S.; ARUTYUNOV, G.A.; ANTIFOV, V.V.; KOTOVSKAYA,
A.R.; KAKURIN, L.I.; TSELIKIN, Ye.Ye.; USHAKOV, A.S.;
VOLOVICH, V.G.; SAKSONOV, P.P.; YEGOROV, A.D.; NEUMYVAKIN,
I.P.; TALAPIN, V.F.; SISAKYAN, N.M., akademik, red.;
KOLPAKOVA, Ye.A., red.izd-va; ASTAF'YEVA, G.A., tekhn.red.

ALL DATES

[First group space flight; scientific results of medical and biological studies carried out during the group orbital flight of manned satellites "Vostok-3" and "Vostok-4] Pervyi gruppovoi kosmicheskii polet; nauchnye rezul'taty mediko-biologicheskikh issledovanii, provedennykh vo vremia gruppovogo orbital'nogo poleta korablei-sputnikov "Vostok-3" i "Voskot-4." Moskva, Izd-vo "Nauka," 1964. 153 p. (FIRA 17:3)

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REAL PROPERTY AND

# "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134110011-8

L 31990-66 ENT(1) SCTB DD/GD ACC NR, ATGO12899 SOURCE CODE: UR/0000/65/000/000/0215/0228 AUTHOR: Volkov, A.A.; Denisov, V.G.; Kirilenko, Yu. I.; Mankevich, V.I.; Mel'nik, S.G.; Mikhaylovskiv, G.P.; Onishchenko, V.F. ORG: none TITLE: The structure of the command signal and the psychophysiological capabilities of an operator in control while subjected to G force SOURCE: Sistema chelovek i avtomat (Man-automaton systems). Moscow, Izd-vo Nauka, 1965, 215-228 TOPIC TAGS: man machine communication, automatic control theory, human engineering, biologic gravity effect, flight physiology, psychologic stress ABSTRACT: Circuits containing a man-operator as one of their elements are extensively used in molern control systems. The case studied involves the control of the pitch of an aircraft in descent prior to landing. An experimental investigation is made of the psycho- aircraft in descent prior to landing. An experimental investigation is made of the psycho- physiological characteristics of an operator during control under conditions of C force acting physiological characteristics of an operator during control under conditions of C force acting physiological characteristics of an operator during control under conditions of C force acting physiological characteristics of an operator during control under conditions of C force acting physiological characteristics of an operator during control under conditions of C force acting physiological characteristics of an operator during control under conditions of C force acting physiological characteristics of an operator during control under conditions of C force acting physiological characteristics of an operator during control under conditions of C force acting physiological characteristics of an operator during control under conditions of C force acting physiological characteristics of an operator during control under conditions of C force acting physiological characteristics of an operator during control under conditions of C force acting physiologica	-
Mikhaylovskiv, G.P.; Onisionenco, critication       Br/         ORG: none       Br/         TITLE: The structure of the command signal and the psychophysiological capabilities of an operator in control while subjected to <u>G force</u> SOURCE: Sistema chclovek i avtomat (Man-automaton systems). Moscow, Izd-vo Nauka, 1965, 215-228         TOPIC TAGS: man machine communication, automatic control theory, human engineering, biologic gravity effect, flight physiology, psychologic stress         ABSTRACT: Circuits containing a man-operator as one of their elements are extensively used in modern control systems. The case studied involves the control of the pitch of an aircraft in descent prior to landing. An experimental investigation is made of the psycho-aircraft in descent prior to landing. An experimental investigation so of G force acting physiological characteristics of an operator during control under conditions of G force acting	-
Mikhaylovskiv, G.P.; Onisientato, VIII ORG: none TITLE: The structure of the command signal and the psychophysiological capabilities of an operator in control while subjected to <u>G force</u> SOURCE: Sistema chelovek i avtomat (Man-automaton systems). Moscow, Izd-vo Nauka, 1965, 215-228 TOPIC TAGS: man machine communication, automatic control theory, human engineering, biologic gravity effect, flight physiology, psychologic stress ABSTRACT: Circuits containing a man-operator as one of their elements are extensively used in molern control systems. The case studied involves the control of the pitch of an aircraft in descent prior to landing. An experimental investigation is made of the psycho- physiological characteristics of an operator during control under conditions of G force acting physiological characteristics of an operator during control under conditions of G force acting	
<ul> <li>TITLE: The structure of the command signal and the psychophysiological capabilities of an operator in control while subjected to <u>G force</u></li> <li>SOURCE: Sistema chelovek i avtomat (Man-automaton systems). Moscow, Izd-vo Nauka, 1965, 215-228</li> <li>TOPIC TAGS: man machine communication, automatic control theory, human engineering, biologic gravity effect, flight physiology, psychologic stress</li> <li>ABSTRACT: Circuits containing a man-operator as one of their elements are extensively used in modern control systems. The case studied involves the control of the pitch of an aircraft in descent prior to landing. An experimental investigation is made of the psycho-physiological characteristics of an operator during control under conditions of G force acting physiological characteristics of an operator during control under conditions of G force acting</li> </ul>	
SOURCE: Sistema chelovek i avtomat (Man-sutomaton systems). Moscow, Izd-vo Nauka, 1965, 215-228 TOPIC TAGS: man machine communication, automatic control theory, human engineering, biologic gravity effect, flight physiology, psychologic stress ABSTRACT: Circuits containing a man-operator as one of their elements are extensively used in modern control systems. The case studied involves the control of the pitch of an aircraft in descent prior to landing. An experimental investigation is made of the psycho- physiological characteristics of an operator during control under conditions of G force acting	
SOURCE: Sistema chelovek i avtomat (Man-automaton systems). Moscow, Izd-vo Nauka, 1965, 215-228 TOPIC TAGS: man machine communication, automatic control theory, human engineering, biologic gravity effect, flight physiology, psychologic stress ABSTRACT: Circuits containing a man-operator as one of their elements are extensively used in molern control systems. The case studied involves the control of the pitch of an aircraft in descent prior to landing. An experimental investigation is made of the psycho- aphysiological characteristics of an operator during control under conditions of G force acting physiological characteristics of an operator during control under conditions of G force acting	
TOPIC TAGS: man machine communication, automatic control theory, human engineering, biologic gravity effect, flight physiology, psychologic stress ABSTRACT: Circuits containing a man-operator as one of their elements are extensively used in modern control systems. The case studied involves the control of the pitch of an aircraft in descent prior to landing. An experimental investigation is made of the psycho- aircraft in descent prior to landing. An experimental investigation is made of force acting physiological characteristics of an operator during control under conditions of G force acting	
used in modern control systems. The case of the psycho- aircraft in descent prior to landing. An experimental investigation is made of the psycho- physiological characteristics of an operator during control under conditions of G force acting	
in the chest-back direction. It is found that with a control convenients if he receives a operator is capable of controlling angular and trajectory movements if he receives a single control command. The structure of the control command should be identical with the principle of control of an automatic system; furthermore, a correction should be made in the	-
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command system, i.e., the dynamic properties of the operator should be corrected. Optimal structure of the control command may be selected by methods employed for automatic control systems. The quality of the control is considerably affected by its dynamic characteristics, by the preparation and the training of the operator, by perturbation factors, and by the organization of the working place of the man-operator. According to data obtained with the polyeffector method of recording functions, an increase in G force acting on the man-operator leads to the execution of physiological control functions which are unchanged in capacity at a high neuropsychic stress and at a lowered performance. The polyeffector method makes it possible to determine the neuropsychic activity of the operator under G fare none fully. An objectie evaluation of the processes employing the man-operator in the control circuit may be obtained as a result of analysis of the parameters of the motion dynamics of the controlled plant, the actions of the operator, and the degree of the operator's psychophysiological stress. Orig. art. has: 12 figures and 18 formulas. [08] SUB CODE: 05 / SUBM DATE: 02Aug65 / ATD PRESS 1502/ 44.

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the hild in a	uman organism [Paper Moscow from 24 to 27	sia and homogenized food ratio presented at the Conference on May 1966]		
oy medi 2-163	tsiny. (Problems of	plemam kosmicheskoy meditsiny, space medicine); materialy konf		
) PIC TA	GS: isolation test, ascular system, space	nypodynamia, human physiology, nutrition	space physiology,	
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TITLE: Direct observation of the tungsten microcrystal			
SOURCE: Fizika tverdogo tela,	v. 7, no. 2, 1965, 496-501	1	-
TOPIC TACS: tungsten recrysta autoionic microscope	111zation, microblock dispersio	n, crack evolution,	
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advanced by one of the authors	ation dan de terrieus bugivane	with a certain	
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advanced by one of the authors 1089, 1960) that plastic deform stage, as simultaneous dispersi tween fragments. Using an auto tion of a crack in a single cry	previously (Carber, Urbh V. 1, ation can be regarded, starting on of microblocks and restoration- ionic microscope, the authors stal of tungsten at liquid-mitr where stranges and of the force	with a certain on of contact be- observed the forma- ogen temperature, produced by an	
advanced by one of the authors 1089, 1960) that plastic deform stage, as simultaneous dispersi	previously (Carber, Urbh V. 1, ation can be regarded, starting on of microblocks and restoration- ionic microscope, the authors stal of tungsten at liquid-mitr where stranges and of the force	with a certain on of contact be- observed the forma- ogen temperature, produced by an	

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small number of atomic layer served that a "bridge" is for companied by resumption of lization at low temperatures in iron and nickel after lo ll0, 64, 1956; FTT v. 2, 10 panied also by relaxation o of the crystal. The result Orig. art. bas: 2 figures.	the continuity of the micr within a relatively short (-temperature deformation 96, 1960). The recrystall the stresses, thus causi s seem to confirm the auth	ocrystal. Similar time interval vas (Carber et al, DAN ization is apparent ng an appreciable d or's earlier hypoth	recrystal- observed BSSR v. ly accom- isordering esis.	
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L 26131-66 ENT(1)/ENT(m)/T/ENP(t) IJP(c) JD/J0 ACC NR AP6010970 SOURCE CODE: UR/0056/66/050/003/0520/0524	
AUTHOR: Garber, R. I.; Afanas'yev, V. I.; Dranova, Zh. I.; Mikhaylov-	
skiv, I. N.	-
ORG: <u>Physicotechnical Institute. AN UkrSSR</u> , (Fiziko-tekhnicheskiy 3 institut AN Ukrainskoy SSR)	
TITLE: Low temperature recrystallization of tungsten microcrystals	
SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 3, 1966, 520-524	
TOPIC TAGS: low temperature, recrystallization, crystal dislocation, grain structure, microcrystal, tungsten deformation	
ABSTRACT: Tungsten deformed at liquid <u>nitrogen</u> temperature has been investigated in a field ion microscope after being kept at room tem-	
perature. It is shown that new recrystallization centers may arise	1 , ,
The transverse size of the stable grain is 2060Å at a disorienta- tion angle of 810°. The dislocation structure of the boundaries was discussed. Orig. art. has: 2 figures. [Based on author's abstract]	
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<u>L 3161-66</u> EWT(d)/F2S-2/EWT(1)/EWA(h). ACCESSION NR: AT5014718 AUTHOR: <u>Demin</u> , E.A.; <u>Chinenkov</u> , L.A.; <u>Miki</u> 55 TITLE: Memory devices for systems of meteors SOURCE: Operativnyye i postoyannyye zapomina volatile storage); sbornik statey. Leningrad, Izd TOPIC TAGS: meteoric communication memory memory, standby memory, radiotelegraphy ABSTRACT: Proposed <u>meteoric radiotelegraphy</u> MBSTRACT: Proposed <u>meteoric radiotelegraphy</u> memories which make possible a continuous tra communication channel. The memory on the tr rate and slow recording speed while the memor the reverse manner. The memory desorthed in recording and reading of information and can be eously. With a capacity of 900 code combination nevertheless, it causes only insignificant reduc transfer rate. It utilizes direct sampling and I digit. Orig. art. has: 3 figures.	ic radiotelegraph communication communication links in the receiver side should be this article can carry a started and stopped aligned it is relatively simple	apid and non- 7-121 slow recording (5) require buffer er a discontinuous ave a high reading should operate in out simultaneous most instantan- le while,	
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ACC NR: A	AP6007538		-	29 B
AITHOR	Kostsov, E. G.	(Novosibirsk); Mikhaylovs	kiy, I. P. (Novosibirsk)	<b>D</b>
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ORG: none	•		of unlog them in measuring	a *
TITLE: T	hin-film capaci	tors and the possibility	of using them in measuring	
instrumen	•	,		•
SOURCE:	Avtometriye, no	. 6, 1965, 28-35		<u>.</u>
TOPIC TAG	Sr thin film c	apacitor, measuring instr	ument	cteristics
ABSTRACT :	Conventional	thin-film capacitors, the	eir construction and chara used successfully at frequ ties of Al-Al <sub>2</sub> O <sub>3</sub> capacito	encies .
are brief	ly described.	In Capacitors Contracted	ALAA A MALAI-ALA CADACITO	rs: al-
though Al	Capacitors are	ATTORICAL THE ACT	menerating which permits	
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ACC NR: AP6007538 are shown: specific capacitance strength vs. oxide-film thickne 10-100 v). Al film capacitors emperature coefficient of capa he strength of the above result use in electric measuring instr- table.	ess; leakage-current density are suitable for operation acitance is $-200 \times 10^{-6}$ per ts, the Al thin-film capacito	y vs. applied vo up to 10 or 20 1 1C within -180 ors are recomm	ltage Mc; their 240C. On ended for
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L 20740-6		<u>I(1)/EWF(m)/T/EWP(t) IJP(c) JD</u> SOURCE CODE: UR/0410/65/000/00	6/0036/0044
AUTHOR: V	inogradov, N. G. (Novo	sibirsk); <u>Kikheylovskiy, I. P.</u> (Novosibi	rsk);
Konyayev,	3. I. (Novgeibirsk); K	ostsov, BGe (BOYOSIDIFER)	44 B
ORG: none		18	
		film diodes in measuring instruments	
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TOPIC TAGE	: semiconductor diode	, thin film diode, measuring instrument	
charge-lis metal-oxid acteristic multa of	Three types of thin-f ited current; (2) Diod e-boundary phenomena; and the physical phenomena; currental investi	<u>Allm dioder</u> are in use: (1) Diodes with tes with oxide films whose functioning de (3) Heterojunction diodes. Their prinic moment transpiring in them are discussed ention of the second and third types with	pends on pel char- 1. The re- 2h 0.01 and
charge-lis metal-oxid ecteristic sults of o.0003 cm <sup>2</sup> ecteristic tures up t heterojune ward curre	Three types of thin-f. ited current; (2) Diod s-boundary phenomena; and the physical phenomena; active surface (9 diod s of Ti-oxide-film dio o 200C; their character tion diodes exhibit vents are considerable; comprehenses over 100C.	es with oxide films whose functioning de (3) Heterojunction diodes. Their prinic momena transpiring in them are discussed action of the second and third types wit ies per cm <sup>2</sup> ) are reported. Current-voltag des are shown; these diodes can operate wristics do not deteriorate with time (2. my steep characteristics; at 0.2-0.4 v, at -3-4 v, their reverse currents are 1 their reverse current rapidly increased	pends on pel char- h 0.01 and pe char- at tempera- .5 yrs). CdS . their for- 0.40 micro- . After
charge-lis metal-oxid ecteristic sults of o.0003 cm <sup>2</sup> ecteristic tures up t heterojune ward curre	Three types of thin-f. ited current; (2) Diod s-boundary phenomena; and the physical phenomena; active surface (9 diod s of Ti-oxide-film dio o 200C; their character tion diodes exhibit vents are considerable; comprehenses over 100C.	es with oxide films whose functioning de (3) Heterojunction diodes. Their prinic momena transpiring in them are discussed (action of the second and third types with les per cm <sup>2</sup> ) are reported. Current-voltage des are shown; these diodes can operate wristics do not deteriorate with time (2. mry steep characteristics; at 0.2-0.4 v, at -3-4 v, their reverse currents are 1	pends on pel char- h 0.01 and pe char- at tempera- .5 yrs). CdS . their for- 0.40 micro- . After

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SOV/68-59-8-10/32 **AUTHOR:** Mikhaylovskiy, K.F. and Kozel', V.Ye. Signalisation of the Position of Coke on the Coke TITLE: Wharf and the Position of the Quenching Wagon (Signalizatsiya zapolneniya koksovoy rampy i polozheniya tushil'nogo vagona) PERIODICAL: Koks i khimiya, 1959, Nr 8, pp 23-25 (USSR) Under conditions of bad visibility in the neighbourhood ABSTRACT: of the coke wharf, due to steaming, the discharge of freshly quenched coke on to the correct position on the coke wharf is often difficult. This becomes particularly important when the discharge of coke from the wharf is done automatically. On the Zhdanov Works, a signalisation system was introduced which indicates the position of the quenching wagon and the position of free space on the wharf. The design and operation of the system is outlined and illustrated. There are 2 figures. ASSOCIATION: Zhdanovskiy koksokhimicheskiy zavod (Zhdanov Coking Works) Card 1/1

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MINHAYLOVSKIY, L. K.

Mikhaylovskiy, L. K. - "Investigation of Ferrites at a Frequency of Around 10,000 Megacycles wit: Transverse Magnetization." Min Histor Education USSR. Moscow Order of Lenin Power Engineering Inst imeni V. M. Mölotov. Chair of the Theoretical Principles of Radio Engineering. Moscow, 1956 (Dissertation for the Degree of Candidate in Technical Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 110-127

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# Mikhnylosse of 1

AUTHOR: Mikhaylovskiy, L.K.

- TITLE: Investigation of Ferrite Characteristics (Issledovaniye parametrov ferritov)
- PERIODICAL: Izvestiya Akademii Nauk, Vol XX, #11, pp 1279-1283 1956, USSR, Seriya fizicheskaya
- ABSTRACT: This article describes the results of theoretical and experimental investigations of the electromagnetic field structure in a wave guide filled up with a medium, which is characterized by the tensor of magnetic permeability.

As a result of this investigation, it was found that in bounded gyromagnetic media there exist waves depending on the intensity of an additionally magnetizing field (perpendicular to the axis of the wave guide).

Card 1/3 The experimental arrangement of this investigation was as follows: ferrite rings of various thicknesses

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Investigation of Ferrite Characteristics (Issledovaniye parametrov ferrito.)

were placed into a round wave guide. The rings were made of ferrite of the "Oksifer-400" type with a diameter equal to the inner diameter of the wave guide, 26.8 mm. The ring thickness varied from 8.3 to 0.96 mm. The frequency of the waves applied was 9,590 megacycles.

On the basis of these experiments was determined the dependence of the losses of electromagnetic energy flowing through the ferrite ring on the intensity of the magnetizing field and on the ring thickness. The results are presented graphically as families of curves shown in Fig. 1 and 2. It was found that in addition to the losses mentioned above, losses of resonance character were superposed. The additional losses, originated because of the volume resonance, can be easily singled out.

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TITLE:

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TITLE:	Investigation of Ferrite Sharacteristics (Issleo- vaniye parametrov ferritov)
	The bibliography lists 5 references, of which 2 are Slavic (Russian). The article contains 4 graphs.
INSTITUTION	Power Engineering Institute imeni V.M. Molotov in Moskva
PRESENTED BY:	
SUBMITTED:	No date
AVAILABLE:	At the Library of Congress
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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134110011-8 S/194/61/000/008/067/092 D201/D304 9,2571 AUTHOR: Mikhaylovskiy, L.K. Ferrite cross-modulation TITLE: Referativnyy zhurnal. Avtomatika i radioelektronika, PERIODICAL: no. 8, 1961, 11, abstract 8 181 (V sb. Ferrity. Fiz. i fiz.-khim. svoystva, Minsk, AN BSSR, 1960, 587-590) A description is given of experiments carried out TEXT: in order to establish the basic possibility of obtaining a cross-modulation of two SHF signals with a poly-crystalline Ni-Zn ferrite. This possibility has been proven to be theoretically possible. 4 references. [ Abstracter's note: Complete translation ] Card 1/1

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## CIA-RDP86-00513R001134110011-8

24976 \$/109/61/006/007/016/020 9.4300 (1482,1158,1160) D262/D306 Mikhaylovskiy, L.K., Makarishchev, V.P., Pollak, B.P., and Fabrikov, V.A. AUTHORS: TITLE: Non-linear gyromagnetic effects of a nutition: 1 character in ferrites P'RIODICAL: Radicteknnika i elektronika, 700, no. . 1901. 1178 - 1183 TEAT: This paper presented at a meeting of All-Union Scientific and Technical Society of madio Engineering and Slectrichi Communicutions im. A.S. Porov on May 18, 1960 deals with the non-linear Eyromagnetic properties of ferrites which are respirable for the amplification of IF and permit the increase of the making efficlency of ferrite mixers, result from the nutitional estimations of magnetization. The nutational oscillations leads have have been predicted from theoretical considerations by V.A. Paliakow (Ref. 5: Radiotekhnika i elektronika, 1960, 5, 1, 117) and (Mef. 6: Card 1/5

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24876 S/109/61/00E/007/016/020 Mon-linear gyromagnetic ... D262 D306 Tr. 3-y Vsyesoyuznoy konferentall fo ferr.tam , Minsk, 1959). The present article gives the results of experientic work by the authors, performed with the int four determining the not-intearity of the dependence of intermedicity frequency power Fig. 46 the power of local oscillator  $P_{\rm H}$  is a She mix 1, 6) tetermining the presence in the ferrite sample. placed in the resonant circuit of the IF of sinusoidal oscillations of magnetization under the influence of the SHF power of the local ostillator. The source if SHF wis a continuous or pulse medilated elystron generator (Klystron type 4)-M (43-I)). The ferrite sample with the coil was placed in a soction of a standard waveguide at a distance of 6 mm from the carrow wall of the waveguide. Frequency range was 3 cm. IF was ' cm, iF was 30 Mc/s. The effective Q of the resonant cct was 20 at 30 Mc/s. The constant magnetic field was applied parallel to the narrow wall of the waveguide. Its magnitude was corresponding to that of the ferromagnetic resonance. The ferrite sample was a mono crystal of yttrium ferrite having the ferromagnetic resonance and 5-10 oersted. The shape of the sample was nearly spherical with unlapped

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• 24876 S/109/61/006/007/016/025 Non-linear gyromagnetic ... D262/D306 surface. The overall IF alphification was about 105, the roles level of the amplifier, as rejused to that of the pry amplifier input was about 5 microsoft (measured with a (SG-1) (Abstruct res note: Measuring (1 Si . a ' men') red ). The main difficulties ( overcome were as follows: Transfert, in the ferring pud changes of the double imponent of magneticum for the the rection of double flets an er the chinese of the logithy red fran-1 - 1 - <u>1</u>-Let  $\mathbf{u}_{i} = \mathbf{u}_{i} = \mathbf{u}_{i}$  is the solution of the second structure of the solution the state of the product of • • . . • amp fier main The hout provide started by the • • • • ю. 5 -. . . amp from the final of the formal of the second of the second prime of a second prime of the second o an 11 14308 1 . . . . . . Card 4 5

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tion in the magnetized ferrite plused in the reducator of the IF were observed under the influence of a SHP transverse for 1 much the power of the field extends in orbital critical value of the irrest extended in the critical value of the irrest extended by L.T. Wills the critical for the critical value of the critical value of the irrest extended by L.T. Wills the critical formation is efficient with the critical value of the irrest extended by the critical value of the critical formation of the critical value of the critical formation of the critical value o

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linear gyromagnetic effects for all 1 to the nutation of ferrite magnetization (Refs. 5 and 6: Op (11.2.) The final identification of these experimentally observed offects will be possible after their careful quantitative analysis. The source results may be of practical interest in profilems of mindling the efficiency of SHF ferrite mixers. The experiment cas partied out at the Monowskiy ener-Card 4/5.

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## CIA-RDP86-00513R001134110011-8



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L	L 10299-66 EWT (d)/EWT (1)/EWA(h) LIP(c) ACC NR: AP5026894 SOURCE CODE: UR/0109/65/010/010/1739/1752	
	AUTHOR: Mikhaylovskiv, L. K.; Pollak, B. P.; Balakov, V. F.; 5/ Khanamirov, A. Ye.	
	ORG: none	
	TITLE: Characteristics and uses of single-magnetic-axis ferrites in the millimeter band (A review)	
	SOURCE: Radiotekhnika i elektronika, v. 10, no. 10, 1965, 1739-1752	-
	TOPIC TAGS: ferrite, anisotropic ferrite, millimeter wave	
	ABSTRACT: Based on 1935-65 Soviet and 1948-63 Western published sources and also on some recent Soviet experimental data (coercitive force, ferromagnetic resonance, ferrite valve), this review covers the following subjects: Ferro- magnetic resonance in anisotropic ferrites at moderate external magnetic fields; 21, 44, 55	
	UDC: 621.318.134.029.65.001.8	•

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12 L 10299-66 ACC NR: APS026894 shf parameters of anisotropic ferrites and methods of measurement; characteristics and variation of composition of BaO.6Fe<sub>2</sub>O<sub>3</sub> and SrO.6Fe<sub>2</sub>O<sub>3</sub> ferrites; measured effective anisotropy field of polycrystalline ferrites in the 4and 8-mm bands; resonant field as a function of the angle between the anisotropy axis and the external bias direction; peculiarities of high- and low-coercitivity anisotropic ferrites; ferroresonance phenomena and their theory; ferrite-loaded wayeguide sections (regonant valves); forrite mixers. "The authors wish to thank S. A. Medvedey and K. M. Polivanov for lending specimens of tested materials and for their attention to the work; and also G. Ya. Bisyayey and O. A. Sokolor. for their part in the experimental work." Orig. art. has: 10 figures and 6 formulas. SUB CODE: 09 / SUBM DATE: 14Aug64 / ORIG REF: 008 / OTH REF: 009

. 36362-66 EWT(1) ACC NR: AP6005322 INVENTOR: Mikhaylovskiy, L. K. ORG: none TITLE: Super high-frequency spectrum analyzer. Class 21, No. 177527 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 57 TOPIC TAGS: spectrum analyzer, pulse amplifier, super high frequency ABSTRACT: An Author Certificate has been issued for a super high-frequency applifier	L10011-8
ACC NR: AP6005322 INVENTOR: Mikhaylovskiy, L. K, ORG: none TITLE: Super high-frequency spectrum analyzer. SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 57 TOPIC TAGS: spectrum analyzer, pulse amplifier, super high frequency to this frequency spectrum	
INVENTOR:       Mikhaylovskiy, L. K,       38         ORG:       none       6         TITLE:       Super high-frequency spectrum analyzer.       Class 21, No. 177527         SOURCE:       Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 57         TOPIC TAGS:       spectrum analyzer, pulse amplifier, super high frequency	
INVENTOR: <u>Mikhaylovskiy, L. K,</u> ORG: none TITLE: Super high-frequency <u>spectrum analyzer</u> . Class 21, No. 177527 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 57 TOPIC TAGS: spectrum analyzer, pulse amplifier, super high frequency model of the frequency spectrum	
ORG: none TITLE: Super high-frequency <u>spectrum analyzer</u> . Class 21, No. 177527 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 57 TOPIC TAGS: spectrum analyzer, pulse amplifier, super high frequency model of the frequency spectrum	.5
TITLE: Super high-frequency <u>spectrum analyzer</u> . Class 21, No. 177527 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 57 TOPIC TAGS: spectrum analyzer, pulse amplifier, super high frequency	1
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the destribute has been issued for a super high-frequency spectr	
ABSTRACT: An Author Certificate has been issued for a super high-frequency spectr	
analyzer containing a converter, a heterodyne, a wide-band how-requirely imperiate and an oscillograph. To observe the spectrum and to make panoramic measurements of the pulse parameters with super high-frequency charges and all durations, a converter in the form of a ferrite cross modulator is inserted at the analyzer in- put. The ferrite cross modulator is ball-shaped with two windings on it along the axis of the rectangular waveguide in the constant magnetic field (see Fig. 1).	
Orig. art. has: 1 figure. [Translation of abstract] [NT]	
Card 1/2 UDC: 621.317.757	

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# CIA-RDP86-00513R001134110011-8



AUTHORS: Mikhaylovskiy, L. K.; Balakov, V. P.; Puchkov, V. S.; Badchenko, V. P. ORG: none EITLE: Mixing of electromagnetic signals on a magnetically monoaxial ferrite SOURCE: Vsesoyuznoye soveshchaniye po ferritam. 4th, Minsk. Fisicheskiye i fisiko- chimicheskiye svoystva ferritov (Physical and physicochemical properties of ferrites); Moklady soveshchaniya. Minsk, Mauka i tekhnika, 1966, 310-315 NOPIC TAGS: ferrite, magnetic property, magnetic material, electromagnetic mixing MESTRACT: The possibility of constructing ferrite mixers for use in the 4-cm wave- length range was investigated. This work supplements the results of K. M. Polivanov,
ITLE: Mixing of electromagnetic signals on a magnetically monoaxial ferrite OURCE: Vsesoyuznoye soveshchaniye po ferritam. 4th, Minsk. Fisicheskiye i fisiko- himicheskiye svoystva ferritov (Physical and physicochemical properties of ferrites); oklady soveshchaniya. Minsk, Mauka i tekhnika, 1966, 310-315 OPIC TAGS: ferrite, magnetic property, magnetic material, electromagnetic mixing BSTRACT: The possibility of constructing ferrite mixers for use in the 4-rm wave- ength range was investigated. This work supplements the results of K. M. Polivanov
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. K. Mikhaylovskiy, S. A. Medvedev, B. P. Pollak, and V. F. Balakov (Sb. Ferrity, Izd. M BSSR, Minsk, 567, 1960). The experimental were carried out on magnetically mono- xial ferrite specimens. The experimental procedure was identical to the one described by L. K. Mikhaylovskiy, V. P. Makarishchev, B. P. Pollak, and V. A. Fabrikov Radiotekinika i elektronika, No. 7, 1178, 1961). It was found that the intensity of the intermediate signal $P_{int}$ was given by $P_{int} = AP_{int}^{P}$ , where A is a constant
haracteristic of the particular ferrite, P the intensity of the ultrahigh
requency signal, and $P_g$ the intensity of the heterodyne signal respectively. and $1/2$





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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134110011-8 CRUSIX HEREBER  $\operatorname{Eur}(\mathbf{a})/\operatorname{EvP}(\mathbf{1})/\operatorname{EvP}(\mathbf{v})/\mathbb{P}^{-1}$  ,  $\operatorname{EvP}(\mathbf{k})/\operatorname{EvP}(\mathbf{n})$  ,  $\operatorname{EvP}(\mathbf{k})$ ะฟ 1. 117 . 14. 14 SOURCE CODE: UR/0413/66/000/014/0128/0129 ACC NR. AP6029071 INVENTOR: Gerlovin, L. I.; Chernovin, N. A.; Averin, V. A.; Nagibin, A. Ya; Torgashov, A. L; Akksandrovskiy, A. A.; Sigachev, V. P.; Mikhaylovskiy, M. M.; R Mironov, M. I. ORG: none TITLE: "Valve with a hydraulic or pneumatic piston drive. Class 47, No. 18h084 [announced by the Special Design Office of the Baltic Boiler Building Factory in\_\_\_\_ Sergo Ordzhonikidze (Spelsial'nove konstruktorskove hyuro kotlostroveniya Baltiyskogo zavoda)] SOURCE: Izobret prom obras toy an, no. 14, 1066, 128-129 TOPIC TAGS: valve, hydraulic piston drive, pneumatic piston drive, hydraulic device, presmatic device, piston argine il ABSTRACT: The proposed, valve with a hydraulic or pneumatic piston drive is designed for opening and closing the through flow-section of main and auxiliary pipings. In order to synchronize the opening and closing of both pipings, its control piston is provided with an annular groove, which, in the open valve position, connects the UDC: 621.646.23-82-85 Card 1/2

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# CIA-RDP86-00513R001134110011-8



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HIEHAYLOVSKIY, M.S. Distinct pulsating sound in the car associated with ancurysm. Vest. otorinolar., Moskra 14 no. 5:72-73 Sept-Oct 1952. (CLAL 23:3) 1. Of the Clinic for Diseases of the Ear, Throat, and Nose (Head -- Prof. V. A. Chudnosovetov), Dagestan Medical Institute.

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Source of the second se	975697 <u>, 197999</u> 	novocain block in , acute tonsillitis, s of a 0.5% solution skin folds of the w. No other treatment	294/200	GREENEWSKYNEGELDE DEW MAREN EN MAREN	13R00113411001	L1-8
USSR/Medicine - Novocain Block	"The Application of an Intradermal Novocain Block in Anginas, "M. S. Mikhaylovskiy Clinic of Ear, Throat and Nose Diseases, Dagestan Med Inst Vest Otorinolar, No 4, pp 55-58	Advocates the application of a novocain block in cases of angina [septic throat], acute tonsillitis, peritonsillitis etc. Injections of a 0.5% solution of novocrin vere made into the skin folds of the horizontal part of the lover jaw. No other treatme		was given. Attributes the beneficial results of this treatment to the neurotrophic effect of the blockade acting on the central nervous sustem.		





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