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stan senten sisten terter in ander staten of the terter of the \mathcal{B} Rin BERG 5.L. ر medicine "The situdy was conducted with the participation of L. A. Malysheva, N. P. Zhukova, and N. P. Taraacva. The Act, srythroug IAE-1 of untrain was used in this investigation. The mycelium for the flash tests was grown Materials and Methods The objective of this investigation was to study the ats of the producer of srythromyclu and the biceyuthe-ats of the antibictle, dopending on avertion and the biceyuthe-various conditions of culturing. The effects of geration and milering on the biosynthesis of erythromycin and on the respiration intensity of the producer. Actinomyces crythrous, were studied by neveral investigators [1,2]. growth und development may be uneful for entiture durings its of a reation and altring which is of least laportance in the blogynthesis of antihiotics. [Article by <u>V. V. Lobanova</u>, and <u>S. K. Bribburg</u>. Sverdlovsk Insti-tute of Medical Proparations and <u>Alt Drinburg</u>. Sverdlovsk Insti-Institute of Antibiotics; Moscow, <u>Antibiotiki</u>, Rumstan, No 8, August 1971, pp 697-701] A STUDY OF THE RESPIRATION OF THE PRODUCER OF ERVISIONYCIN Respiration of the Actim, erythroum IAE-1 efu Strain was would in firskn and in 45 and 100 Liter fermenters. It was entablished that the on the age, meration, strain culture depends of the medium. Six tables, two figures, and eight references. 1 JPRS- 54675 10 DECERTINE 1971 UNC 576 852, 18,095.2 ft - ussa - cj 10 December 1973 JPRS 54675 to

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0 1/2 018 UNCLASSIFIED PROCESSING DATE--- 300CT70 TITLE--STUDIES ON RESPIRATION OF KANAMYCIN PRODUCING ORGANISM OURING BIOSYNTHESIS -U-AUTHOR-(05)-BRINBERG, S.L., GRABOVSKAYA, O.Z., SMIRNOVA, L.V., PAPATSENKO, V.P., KALMYKUVA, G.V. COUNTRY OF INFO--USSR SCURCE-ANTIBICTIKE, 1970, VCL 15, NR 6, PP 500-505 DATE PUBLISHED ------ 70 SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES TUPIC TAGS-BIOSYNTHESIS, KANAMYCIN, MICROORGANISM CONTROL MARKING--- NO RESTRICTIONS DUCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1832 CIRC ACCESSION NG--AP0125443 UNACLASSIFIED

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AND REVENUES CONVECTORS ON RESPERTION OF THE RANAMYCEN PRODUCERS DEGALESM AND CIGSYLFHESTS OF THE ANTIBIUTIC WAS STUDIED. DURING INTENSIVE MIXING AN INCREASE IN THE AMOUNT HE AIR SUPPLIED WITHIN I TO 3 VOL-VOL DIO NOT APPECT THE AUTIONOTIC BROSYNTHESIS. AT LOW LEVELS OF MIXING TE SLIGHTLY A BELKLASE IN THE INTERSITY OF MIRING MARKEDLY SUPPRESSED INCREASED. THE MUTIFICATION STURYNTHESIS. NATURAL CHANGES IN THE RESPIRATION LEVELS DEPENDENT IN THE MENTION CONCETTIONS WERE PROBABLY ADDEDIT. THE MODE OF ACTICS OF THE HERE'S INTENSITY ON THE ANTIBIDITE BIDSYATHESIS MUST BE ATTREBUTE THE EXPERIMENTS OF THE CONCENTRATIONS OF THE MUTRIENTS AND METROLLIES COLL THE STLL WALLS, AND NOT TO IMPROVEMENT OF THE AERATION CONDITICAS. FRILITY: ALL UNION INSTITUTE FOR ANTIOBIOTICS, MOSCON,

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Clee Cleeselin - -----

像像黑衣的花花的桌上,那个小白眼,一眼,直上的外午上,一边的桌子开放的桌上,一边的手上,一边的一口,一口,一口,一口里一口。 The model of a constrained of the second second C RET MARKED L. THE REPORT AFFINES ADDRESS. 这时前的是"不可能"。"这时候,你还都能在HET客。" 计算符分词 的复数形式 计分类目标文件 1**5** - 11 1113351 4.41 THE FREE SHARPENES AND LEVERSTREE HERE ST 网络森多银络金银花龙科 化合成剂 化分子环 人名法律人姓氏 化合物相关系统 法出行 人名德尔特布法法法尔尔 化分子系统 化分子 网络第一个分子第一 SPERCENCER IN ELEMENTED WARRE IN MITTENSS, INC. M. AND PERCENCIAL MET CINSISIS OF CROTENE NERVER. TO ERREAR NAME SEVERSE SECTION 1. AND I COMMINE ONE FOR SHORE FIRE FOR HADRE WHERE WEIMARY RELEASE AND THE PROPERTY REPORTED. Reading the over the local operation of the constant structures, so the fee SECONDARIES ARE CONSISCIED FOR THE UNISCIENT HAVE TRANSMITTER AND THE ROMPARATES, THE COMPARATES TARTS THE FORM OF AN AND MATE LASTO UN DYNESTURY CONSECTED IN THE CHEFCTOP LEVENTED A RECEPTED TREPT 化含氧苯化合物化合物 化白油铁 不相应 化超速调度消耗 计图书的标准的 医外外丛 计相关的 计存在分词 计计算法文字 RECEIVED, THE THER SATE IS COMPLETED IN THE FACTOR SET OF A 地址 计模式成成制度 化氯化甲基 经财富的 动物发展 化分解放射 计打算分子存储 网络西南部东方 计中心分析的 化生产分析 TRANSTERN PERCEPTION IN THE REPORT ELECTRIC AND IN THE RECONDARY FILTERS DE THE CHRISENE TRANSFORMER IN REDUCE OF INCORPORATION & SZTURALLA 李晓云的话题,这种怀疑,其他《李明》,不知道《平礼》,《《《《金书》》),这些意思,"这个李明希望的是他的,我们有学家。

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USSR

BRINKIS, K. A., et al., Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 8, 10 Feb 70, pp 49-50, Patent No 263721, Filed 23 Aug 68

the collector circuit of a blocking triode controlled from the current modules and from the ultrashort-wave receiver. The comparator is connected in turn to the output unit which takes the form of a kipp oscillator with positive feedback. 2. A modification of this device which differs because the effect of transient processes in the primary circuit and in the secondary circuits of the current transformers is reduced by incorporating a saturable transformer in the current modules of the measurement unit. The primary winding of a transreactor is connected through a high-harmonic filter and a resistor to the secondary winding of the saturable transformer, while the secondary winding of the transreactor is connected at one end through a diode to the primary winding of the shaper transformer, and at the other end to the collector of a transistor which has its emitter junction connected to the abovementioned resistor. This end of the winding is also connected to the base of the resolving transistor whose collector is connected through a follower.

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CIA-RDP86-00513R002200510001-0"

USSR

UDC 621.316.925

BRINKIS, K: WA., EYGUS, L. Ye., PAPERNO, L. B., Riga Polytechnical Enstitute

"A Device for Differential Directional Protection with an Ultrashort-Wave Communications Channel"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obrazcsy, Fevarnyye Znaki, No 8, 10 Feb 70, pp 49-50, Patent No 263721, Filed 23 Aug 68

<u>Translation</u>: This Author's Certificate introduces: 1. A device for differential directional protection with an ultrashort-wave communications channel for electrical transmission lines including those with branches. The unit contains a combination trigger which distinguishes symmetric and asymmetric short circuits, a measurement unit with keying module, and a comparator with output unit. The unit differs because to increase speed and reliability as well as selectivity in incomplete phase conditions, the measurement unit consists of current modules of forward and reverse sequence, and a common pulse shaper transformer whose primary winding is connected through the trigger outputs to the current modules, while the secondaries are connected to the ultrashort-wave transmitter and the comparator. The comparator takes the form of an AND gate based on dynistors connected in 1/2

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CIRC ACCESSIUN NU--AP0115744 HOT ROLLED SHEET AND THE DEFORMATION RATIOS APPLIED IN SUBSEQUENT COLO ROLLING OPERATIONS ON THE DEGREE OF PERFECTION OF THE SECONDARY RECRYSTN. TEXTURE AND THE MAGNETIC PROPERTIES OF FINISHED TRANSFORMER. STEEL SHEET (CONTG. 3.18PERCENT SI) WERE STUDIED ON SPECIMENS 50 TIMES 500 NM, COLD ROLLED IN SEQUENTIAL OPERATIONS ON A LAB. ROLLING STAND (ROLLING SPEED 0.1M-SEC) FROM INITIAL THICKNESSES OF 2.2, 2.5, AND 3.0 MM TO A FINAL THICKNESS OF 0.33 MM. STD. ANNEALING PROCEDURES WERE THE DISTRIBUTION OF TEXTURE DEVIATIONS, THE SP. CORE LOSSES, AND USED. THE MAGNETIC INDUCTION WERE DETD. AND RELATED TO THE DISLOCATION STRUCTURE IN THE DEFURMED METAL. WHEN THE THICKNESS OF THE INTERMEDIATE SHEET (BEFORE THE 2ND COLD ROLLING) WAS 0.85 OR 1.0 MM, THE TEXTURE DEVELOPED BY SECONDARY RECRYSTN. WAS INDEPENDENT UP THE THICKNESS OF THE HOT ROLLED SHEET. WHEN THE INTERMEDIATE SHEET THICKNESS WAS 0.7 MM THE EFFECT OF THE THICKNESS OF THE HOT ROLLED SHEET WAS SUBSTANTIAL; LESS PERFECT TEXTURES WERE OBTAINED FROM SHEET 2.2 AND 3.0 MM THICK. THE SECONDARY RECRYSTN. TEXTURE WAS IMPAIRED AND THE SP. CORE LOSSES WERE INCREASED WHEN THE HIGHEST DEFORMATION WAS APPLIED IN INTERMEDIATE MURE PERFECT TEXTURES WERE ATTAINED WHEN THE DEFURMATION WAS ROLLING. GRADUALLY DECREASED OR WAS UNIFORM PER PASS, OR WHEN THE MIN. DEFORMATION WAS APPLIED IN THE INTERMEDIATE ROLLING. FACILITY: MUSK. INST. STALI SPLAVOV, MOSCOW, USSR.

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USSR

UDC: 550.834

BRISKIN, S. N., VANDER, S. S., DOLINSKIY, Yu. D., KUZNETSOV, L. Sh., FOLYA-KOV, K. K., Special Design Office of the Ministry of Geology of the USSR

"Nuclear-Precession Magnetometer"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 13, May 72, Author's Certificate No 335649, Division G, filed 23 Mar 70, published 11 Apr 72, p 195

Translation: This Author's Certificate introduces: 1. A nuclear-precession magnetometer with digital registration. The instrument contains a magnetically sensitive pickup, coincidence gates, a master frequency oscillator, a count time shaper and a counter. As a distinguishing feature of the patent, the operational reliability of the device is improved by connecting the coincidence gate to the set terminals of the least significant digit counter, and by connecting the input of the least significant digit counter through a second coincidence gate to the count time shaper and to a counter with variable scaling factor, which is connected to the master frequency oscillator and to the most significant digits of a standard frequency period counter which is connected through a third coincidence gate to the standard

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UNCLASSIFIED PRUCESSING DATE--20NOV70 212 020 CIAC ACCESSIEN AG--AP0135835 WITH FABILIAL WATURE OF REPHRITIS WERE OBSERVED. - ALL THE PATIENTS WERE DIVIDED INTO THE FOLLOWING GROUPS: THE 1ST GROUP INCLUDED 7 CHILDREN OUT OF 4 FAMILIES IN WHOM THE DISEASE WAS CHARACTERIZED BY A DIFFERENT DEGREE OF THE MEPHROTIC SYNCROME MARKEDNESS; THE 2ND GROUP INCLUDED 22 CHILDREN FREM 15 FAMILIES IN WHOM STABLE HEMATURIA WAS ONE OF THE MAIN CLINICAL MANIFESTATIONS. IN 4 CHILDREN HEAMTURIA WAS COMBINED WITH DEFECTIVE EFAKING, I.E. ALPORT'S SYNDROME WAS MARKED. THE DISEASE RAN A MORE SEVERE COURSE IN MALE PATIENTS, THE SEVERITY GREW WITH AGE AND MAS APPARENTLY JUE TO THE DEVELOPMENT OF ENPHROSCLERUSIS. THE DATA ARE GIVEN OF THE CLINICG GENETIC ANALYSIS REVEALING NUMEROUS CASES OF NEPHRUPATHY IN SEME FAMILIES. POSSIBLE MECHANISMS OF GENETIC HEREOITY OF FARILIAL REPHROPATHY ARE DISCUSSED. FACILITY: DEP. PEDIAT., CENT. INST. POSTGRAD. MED., MUSCUW, USSK. CILLASSIFILD

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COUNTRY OF INFOUSSR	Alterative and an and a second
SOURCESVAR, PROIZVOD, 1970, (21, 25-7
DATE PUBLISHED70	
SUBJECT AREASMATERIALS	
	CORROSION RESISTANT STEEL, ACTO CORROSION, FITANIUM STEELZ(U)KH1810T STEEL, (U)L40M
CONTROL MARKINGNO RESTRICTIONS	
DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME1939/1379	STEP NOUP/0135/70/000/00?/0025/0027
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UDC 678.7:66.018.86.01:536.2

BONDAREV, V. D., BRISKMAN, B. A., and SABINA, V. P.

"Influence of $\ensuremath{\ensuremath{\mathsf{S}}\xspace}$ -Radiation on the Thermal Conductivity and Density of Some Polymers"

Moscow, Plasticheskiye Massy, 7, 1973, pp 7-10

Abstract: A study was made of the relationship of the thermal conductivity coefficient λ and the density ρ to temperature and λ -radiation for both crystalline polymers (polyethylene and fluorlon-4) and amorphous polymers (polystyrene and polymethylmetacrylate). For polyethylene at 30°C λ decreased by 40% and at 150°C it increased by 36% for rather low levels of radiation; it did not change for doses in the range 2000-3100 millirads. The density increased only 1.2%. For fluorlon-4 λ did not change significantly with temperature. The value of λ decreased slightly with irradiation. The behavior of ρ was a function of the crystallinity. For polystyrene λ increased by 24% in the temperature range 16-85°C and practically did not change with irradiation. For polymethylmetacrylate, λ increased by about 25% in the temperature range 18-98°C and practically did not change with irradiation. Possible reasons and implications of these values are discussed.

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11 E 김 아이 아이는 다니운 BRISKM The nonuniform force distribution in the lateral channel (pocket) leads to the occurrence of turbulence in it. Depending on the force distribution in the core and also the parameters characterizing its configuration, the turbu-lence in the pocket will to a greater or lesser degree affect the movement of the liquid in the central channel, that is, the pump parameters. and a state of a A A study was made of the dependence of these parameters (the magnitude of verse cross section of the central channel (the Magnold through the transforte distribution in the core. 「「「「「」」」というないで、「」」」というないないで、「」」」というないで、 In this approximation a study has been made of the two-dimensional move-sent of a viscous incompressible liquid in a cross cors with a linear decrease in manitude of the force with respect to both coordinates. The finite-difference equations written for the current and vorticity functions were solved by the iteration method with a successive lower relaxation on a computer. If the distributions of the magnetic and electric fields are cnused only by external sources and do not depend on the movement of the liquid (the induc-tionizes approximation), then the problem can be reduced to the solution of the equations of ordinary hydrodynamics in the given nonuniform (orce field. In order to determine the optimal parameters of the structural design of movement of the liquid-metal in necessary to have a concept of the nature of movement of the liquid-metal in the zone of effect of the electromagnetic forces. The solution of this system for regions of complex configuration even by numer-The solution of this system for regions of complex configuration even by manary of interest for presents significant difficulties. However, in a number of cases of interest for practical applications, it is possible to introduce some simpli-NUMERICAL STUDY OF THE FLOW OF A LIQUID-METAL IN MACHETODYNAMIC PUHHS [Abstract of a Peper by <u>P. V. Mirikh, V.A. Briskman, G. I. Burde</u>, B. K. <u>Gorna</u> No. P. Wishchuk, V. I., Yakushin Given at a Magnetohydrodynanic Conference, pp 121-122] ŝ ł ţ -33 v 27 November 1973 . JRES 6063 . . • 6 .

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UDC 621.397.132:621.382:621.375.4

BRITANISHSKIY, R. G., SOLOVEY, V. F., and KHANOVICH, I. G. "SEKAM Chromaticity Block With Integrated Circuits"

Moscow, Tekhnika kino i televideniya, No. 11, 1971, pp 48-52

Abstract: Stressing the advantages and usefulness of integrated circuits, this article offers as an example of those advantages the experimental model of a printed circuit for decoding chromaticity signals in the SEKAM system of color television. This circuit contains two integrated circuit units: one, type X2TS241, is a bistable flip-flop; the other, type K2KT241 is an electronic switch. Both can be used either in the SEKAM or the PAL systems. The schematics of both are given together with a schematic of the ensemble, and their operation is explained. The schematic of an alternative switching circuit that can be used in the chromaticity block is also provided. Among the new components in this block is a delay line, external photographs and an internal drawing of which are shown. Other illustrations are a block diagram of the chromaticity circuits and oscillograms of the signals at various points in the block diagram. The authors are associated with the N. A. Bonch-Bruyevich Electrical Engineering Communications Institute of Leningrad.

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UDC: 8.74

BRITAVSKIY, G. M.

"Some Problems of Modeling of Multichannel, Multiphase Queueing Systems"

Prom. Kibernetika [Industrial Cybernetics--Collection of Works], Kiev, 1971, pp 239-247 (Translated from Referativnyy Zhurnal Kibernetika, No 11, 1972, Abstract No 11V588, by V. Ostrovskiy)

Translation: Problems of statistical modeling of complex technological systems (changing their form during servicing of a request) are studied. A system of this type is approximated by a multiphase, multichannel queueing system with finite limiting line length between phases and blocking of phases when there are no requests or when the line exceeds it maximum length. The information recorded during functioning of the modeling algorithm allows determination of the usage factors of subsystems and of the system as a whole, the intensity of the output flow, as well as effectiveness factors of the parts of the system with fixed limitations of intermediate storage capacity. The model produced was used to study the functioning of automatic lines for production of electronic parts.

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BRITAVSKIY, G. M.

"Problem of Evaluating the Maximum Length of a Queue and its Application"

CONCERTING ALL MARKETING ALL

Kiev, Teor. kibernetika--sbornik (Theoretical Cybernetics-collection of works), 1971, pp 114-133 (from RZh-Kibernetika, No 10, Oct 72, abstract No 10V95 [author's abstract])

Translation: A single-channel queuing system with unlimited line is considered. Let t_1, t_2, \ldots be sequential times of arrival of customers for service. Let us use the notation $\theta_i = t_i - t_{i-1}, i \ge 1, t_0 = 0$, and let these intervals between the times of arrival of customers have an exponential distribution with parameter λ , while the time for serving customers has arbitrary distribution with distribution function F(t). Let τ_n be the time when the length of the queue is first equal to n. In this paper an expression is found for Me^{-STn}, and a study is made of the quantity MT_n for large n. Problems are also considered in application of the resultant estimates for studying blocking time in a system with waiting and a finite queue. 1/1

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UDC: 621.373.544(088.8)

KHRUSHCHEV, A. P., BRITKOV, N. A.

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"A Flip-Flop Based on Transistors With Controlled Hysteresis"

USSR Author's Certificate No 259142, filed 29 Jul 68, published 5 Jan 70 (from <u>RZh-Radiotekhnika</u>, No 12, Dec 70, Abstract No 12G255 P)

<u>Translation</u>: This Author's Certificate introduces a transistorized flip--flop with controllable hysteresis. The device contains a circuit for setting the flip-flop in the initial state, a divider for regulating the amplitude of hysteresis connected to the collector of one of the transistors, and trigger circuits with a semiconductor block diode connected in one of them. To improve resistance to interference in triggering the flip-flop, the collector of the other transistor is connected through a semiconductor diode and a resistor to the common point of a circuit comprised of a resistor and capacitor connected in series to the supply circuit, the semiconductor blocking diode also being connected to the common point of the above-mentioned circuit through a resistor.

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CIA-RDP86-00513R002200510001-0

Nitrogen Compounds

USSR

IDC 547.854.9.07

BRITIKOVA, N. YE., BELOVA, L. A., CHKHIKVADZE, K. A., and MAGIDSON, O. YU., (DECEASED), All Union Scientific Chemical-Pharmaceutical Research Institute imeni S. Ordzhonikidze, Moscow

"Synthesis of 5-Phenylamino Derivatives of Orotic Acid"

Riga, Khimiya Geterotsiklicheskikh Soyedineniy, No 2, Feb 73, pp 273-275

Abstract: Heating 5-bromoorotic acid with anizidine, aniline or p-chloroaniline in ethylene glycol at high temperature leads to a nucleophilic replacement of bromine and decarboxylation, yielding 5-phenylemino derivatives of uracyl. 5-Bromoorotic acid reacted with aromatic amines by the Ullman reaction in ethylene glycol, to give 5-phenylamino derivatives of orotic acid.

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UDC 547.853.7'854.9'867.2.01

BRITIKOVA, N. YE., BELOVA, L. A., CHKHIKVADZE, K. A., and MAGIDZON, O. YU., (DECEASED), All Union Scientific Chemical-Pharmaceutical Research Institute imeni S. Ordzhonikidze, Moscow

"Derivatives of 5-Aminoorotic Acid"

Riga, Khimiya Geterotsiklicheskikh Soyedineniy, No 2, Feb 73, pp 270-272

Abstract: 2,4,8-Trioxoderivatives of pyrimido-/5,4-d//1,3/ oxazine have been synthesized and converted to esters and amides of 5-acetylaminoorotic acid. The acetyl group of 5-acetylaminoorotic esters hydrolyzes easily in acid medium yielding 5-aminoorotic esters; in contrast, the acetyl group of the 5-acetylaminoorotic amides does not hydrolyze easily.

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UDC: 621.372.061

BRITNER, L. P., DRAGAN, A. B.

"A Method of Calculating Pulse Reactions of Communications Channels"

V sb. <u>Vopr. elektrosvyazi</u> (Problems of Electrical Communications--collection of works), Kiev, "Tekhnika", 1970, pp 42-48 (from <u>RZh-Radictekhnika</u>, No 11, Nov 70, Abstract No 11A92)

<u>Translation</u>: In order to solve a number of problems associated with the development of correcting devices for high-speed transmission of discrete information, it is necessary to know the relationships between the reference values of the pulse reaction in the uncorrected channel. This problem can not be solved by direct measurements at the present time. In this connection the authors discuss a method of determining the reference values of the pulse reaction in the channel from readings of its amplitude-frequency and phase--frequency characteristics. Formulas are derived which can be used to determine the unknown quantities from readings of the complex transmission factor of the channel. Application of these formulas is illustrated by calculation of practical correcting devices. Two tables, bibliography of five titles. N. S.

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UDC 621.375.82

KURBATOV, L. N., BRITOV, A. D., DIROCHKA, A. I., KOZINA, G. S., MOCHALKIN, N. N., AVER'YANOV, I. S., STARIK, P. M.

"Stimulated Radiation of Solid Solutions of Tin and Lead Chalcogenides in the 10-Micron Band"

V sb. Kvant. elektronika (Quantum Electronics--collection of works), No 3, Moscow, Soviet Radio, 1972, pp 97-99 (from <u>RZh-Fizika</u>, No 12, Dec 72, Abstract No 12D982)

Translation: A study was made of recombination radiation in the presence of electron excitation, and induced emission was obtained in Pb. Sn Se crystals 1-x + x

grown by the Bridgman method with x = 0.04, 0.05, and 0.07 and in Pb_{1-x}Sn_xTe

crystals grown from the gas phase with x = 0.17 and 0.18. The radiation wavelength at 90° K is within the 8-11-micron band. The pulse power is 1-10 milliwatts. A study was made of the temperature functions. The maximum operating temperature does not exceed 140° K. The bibliography has 5 entries.

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Abstracting Service: CHEMICAL ABST 5/70 Acc. Nr. Ref. Code AP0048458 0449 105549a Temperature dependences of lead sulfide radiation. Kurbatov, L. N.: Britov, A-D.; Mochalkin, N. N. (USSR). Fiz. Tekh. Poluprov. 1970, 4(1), 120-4 (Russ). The temp. dependences of the spectral and integral characteristics of the radiation of PbS were investigated at 10-160°K. The energy gap depends nonlinearly on the temp. The level appearing after activation "follows" the zone. The energy is 4×10^{-3} eV. A correlation was established between the spectral distribution of the radiation and absorption and the appearance of the photothe radiation and absorption and the appearance of the photoelec. effect. Alexandre Fucs 1/1 18 M REEL/FRAME 19800166

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USSR

BRITOV, G. S., TORGASHEV, V. A.

"Use of Functional Coding and Systems of Residual Classes to Increase the Reliability of Computers"

Informatsionnye Materialy. Nauch. Sovet po Kompleks. Probl. "Kibernetika" AN SSSR [Information Materials Scientific Council on the Complex Problem "Cybernetics" Academy of Sciences USSR], No 3(50), 1971, pp 75-78, (Translated from Referativnyy Zhurnal, Kibernetika, No 3, 1972, Abstract No 3 V501 by V. Mikheyev).

Translation: A method is described for using functional coding and systems of residual classes (SRC) to increase the reliability of a digital computer, consisting of the following. Suppose a problem of the form

> $y_1 := f_1 (x_1, \dots, x_m)$ $y_n := f_n (x_1, \dots, x_m)$

is solved on a digital computer in SRC p_1, \ldots, p_k . The probability of correct operation of the machine in solution time T is evaluated as $p_p(T) = 1/2$

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BRITOV, G. S., TORGASHEV, V. A., Informatsionnyc Materialy. Nauch. Sovet po Kompleks. Probl. "Kibernetika" AN SSSR, No 3(50), 1971, pp 75-78.

 $p^{k}(T)$, where p(T) is the probability of correct operation of an individual module in time T; k is the number of modules. By introduction of an addi-

tional function according to a code with the test condition $\sum_{i=1}^{n+1} y_i = 0$ and

one addition module p_{k+1} , the problem is reduced to the form

 $y_1 = f_1(x_1, \ldots, x_m)$ $y_n = f_n(x_1, \ldots, x_m)$ $y_{n+1} = f_{n+1} (x_1, \ldots, x_n)$ $\sum_{i=1}^{n+1} y_i = 0.$

When errors appear, the test condition of the functional code is disrupted and the solution is repeated with the modules successively switched out. As soon as the defective module is switched out, the test condition of the functional code is fulfilled and the solution is output with less accuracy.

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USSR		JDC: 621.396.6-181.5	:
BRITSIS, A. B., GOTLI SHARLOVSKIY, B. V.	B, D. S., KRUCHAN, Ya. Ya.	, OZOLS, K. K., and	
"Investigating the Cha Hybrid Integrated Cir	racteristics of Thin Film cuits"	Contact Areas for	
	<u>auchno-tekhn. sb. Mikroele</u> ic-Technical Collection, M 0-27 (from <u>RZh-Radiotekhni</u>		
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USSR	Microelectronics	UDC: 534.232.082.73-8	
BRITSYN, K. I., DELIDOV, V. and IVANOV, L. A.	P., MARTYNOV, V. P., MOCHALO	V, B. F., SMIRNOV, A. A.,	
"Studying Thin-Film CdS-Piez	o-Converters"		
Moscow, <u>Radiotekhnika i Elek</u>	<u>tronika</u> , Vol. 15, No 9, 1970,	, pp 1937-1944	
specimens vaporized onto Al it is shown that the frequence between the electrical impede	hanical resonance frequency. and the position of the leas a equivalent converter circui estimate its harmonization w of the frequency characterist converter specimens yielded with a band of approximatel the lower frequency region i me experimental and theoretic	eristics are calculated and much on the relationships measuring tract as it does cadmium sulfide and the point is predicted for CdS This shift makes it pos- st loss point completely by t proposed by the authors with the measuring tract ic for various methods of a loss in the order of y 35 percent. The mini- n comparison with the al data are in good agree-	

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UDC 621.181.001.5

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GRISHIN, A. D., GUTSALO, G. I., SHTAL'MAN, S. G., ABRYUTIN, A. A., DRONOV, L. A., SOLOMONOV, V. M., KROL', A. Ya. and BRITVIN, O. V., (all engineers); and Candidate of Technical Sciences VIKHREV, Yu. V., ORGRES-VTI-Kostromskaya GRES

"Results of a Study of the Combustion and Temperature Regime of the Lower Radiation Section of the TGMP-114 Boiler"

Moscow, Teploenergetika, No 3, 1973, pp 43-46

Abstract: Earlier gas-mazut boilers of this general type were not completely satisfactory on account of the low reliability of the heating surfaces (mainly the lower radiation section) and the great heat flow in the combustion chamber.

This difficulty has been corrected in the new main-series supercritical pressure TGMP-114 boiler by reducing the number of boilers (from 8 to 6), securing maximal removal of the extreme burners from the side walls, and use of recirculation of cold smoke gases into the lower part of the furnace chamber.

The direct-flow TGMP-114 boiler has an output of 950 t/hr, with steam parameters of 255 kg/cm² and 565/570°C. Analysis of operational data on chemical control 1/2

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GRISHIN, A. D., et al., Teploenergetika, No 3, 1973, pp.43-46

shows that in 1971 iron content of feed water was 10-15 1g/kg, 15-20 1g/kg the previous year, and 20-50 µg/kg during the start-up period in 1969, with high content of 100-150 1g/kg in individual cases. These facts point up the formation of iron oxide deposits as a basic cause of the external corrosion of the screening pipes of the lower radiation section, and emphasize the necessity of water control and chemical cleansing.

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AM0037790 4R0000 NUCLEAR SCI. ABST./-70 1682 (CERN-Trans-69-13) BIOLOGICAL SHIELDING AND TECHNIQUE OF RAPID EJECTION AT 70 GeV. Brityich, G. I.; Golovachik, V. T.; Krupnyi, G. I.; Lebedev, V. N.; Mal kov, V. V.; Bushuev, N. I. (Gosudarstvennyi Komitet po Ispol'zovaniyu Atomnoi Energii SSSR, Serpukhov. Institut Fiziki Vysokikh Energil). Translated by A. Golovanoff (CERN. Geneva, Switzer-land), from report IFVE-ORZ-69-5. 44p. (In French). Dep. The biological shielding for a proton fast ejection system was calculated for an ejected proton beam with energy of 70 and 85 GeV and intensity of 10^{12} protons/cycle for a repetition rate of 8 cycles/min and proton efficiency of 100%. The shielding against the nuclear activity, the μ mesons, and residual activity of the target station were calculated. The arrangement of the biological shielding of the target station was discussed. (J.S.R.) 19730784

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WC 577.3

GONCHARENKO, YE. N., and BRIYEDIS, I.

"Mechanisms by Which Histamine Concentration in Tissues Increases in the Presence of Radio-Protective Compounds"

Moscow, Biologicheskiye Nauki, No 10, 1971, pp 48-50

Abstract: One of the protective reactions which radio-protective compounds or exposure to hypoxic hypoxia induce in the body -- a rise in the concentration of histamine -- was investigated on white rats which were administered aqueous solutions of beta-mercapt athylamine (MEA) or kept in a barochamber at an atmospheric pressure of 215 mm Hg for 2 minutes. Determinations performed on tissue samples 10-15 minutes later revealed a two- to four-fold increase in decarboxylase activity in the skin, stomach, and kidneys after administration of MEA and in the skin and stomach after exposure to hypoxia, as well as a significant though less pronounced decrease in the activity of diaminooxidase in the skin, stomach, and kidneys. It is concluded that the increase in histamine concentration is due mainly to an accelerated formation of new histamine through enhanced decarboxylation of histidine and, in a Iesser degree, to decelerated destruction of histamine by diaminooxidase.

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CIA-RDP86-00513R002200510001-0

USSR UDC 577.391 GONCHARENKO, YE. N., HUDRYASHOV, YU. B., and BRIYEDIS, I., Moscow State University imeni M. V. Lomonosov the of Endogenous Histamine in the Radioprotective Action of Radioprotectors" Moscow, Doklady Akademii Nauk, USSR, Vol 191, No 4, 1970, pp 948-950 Translation: It was proposed earlier (1, 2) that one possible mechanism of the action of radioprotectors is based on their ability to lower the content of toxic lipids in the cells, and to liberate "endogenous radioprotectors". Experimental data are reported showing that aminothicles are capable of increasing the levels of one such "endogenous radioprotector" -- serotonin⁽²⁾. This paper describes an investigation of changes in the levels of another biologically active compound -- histamine -- under the influence of administered radioprotectors. White male rats were used in the experiment (body weight 120-1503). The animals were injected intraperitoneally with aqueous solutions of the radioprotectors, and after 10-20 min the content of free and total histamine in tissues was determined(3)The so-called f.d.d. at $LD_{50/30}$ (i.e., factor of decreased irradiation dose resulting in 50% animal deaths in 30 days) was taken as the criterion of the protective action of the compounds studied. The radioprotective compounds (AET --1/3

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CONCHARENKO, YE. N., et al., Doklady Akademii Nauk, USSR, Vol 191, No 4, 1970, pp 948-950

aminoethyl isothiuronium, MEA -- mercaptoethylamine, cystamine, cysteine, serotonin, and snake venom) and control materials (serine and 0.85% NaCl solution) were injected intraperitoneally 10-15 min prior to a single total irradiation of animals (dose range -- 400-1400 rads) on a GUBE-800 apparatus (dose rate was 50 rad/ min). Another criterion of the effectiveness of radioprotectors was Δ Eh -lowering of the oxidation-reduction potential level, registered on a platinum needle electrode inserted subcutaneously into the rats (4,5).

Table 1 shows that injecting the rats with highly effective radioprotectors (f.d.d. 1.5; $\Delta Eh = -150 \text{ mv}$ and larger drop) results in considerable increase of histamine in tissues. This is especially noticeable in the case of "total" histamine. The tissues containing higher amounts of histamine in control groups (skin, stomach) are capable of accumulating large quantities of histamine (in absolute figures).

Snake venom has little protective effect (f.d.d. 1.2). Rats injected with snake venom showed increased histamine levels in skin and stomach, and significant decrease in liver and kidneys. It is interesting that serine (control), which is not radioprotective, but whose structure is similar to the active aminothiols studied, caused no significant change in the content of free and total histamine. 2/3

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USSR

GONCHARENKO, YE. N., et al., Doklady Akademii N , USSR, Vol 191, No 4, 1970, pp 948-950

Increase in the free and total histamine in the tissues indicates liberation of endogenous histamine under the influence of radioprophylactic compounds, end also synthesis of histamine.

Thus the data obtained support the proposal that "endogenous radioprotectors" may be accumulated in the organism under the influence of radioprotectors which may be capable of increasing radioresistance of the animals (2).

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501 8044/0653-4 BRIYE DIS, 1 U = U(I) under the condition of $p/q^2 = const$ and the volt-ampere characteristics were determined. A study was also made of the distribution of the electric and The experiment was performed on a liquid-metal Du-40 circuit of the Physics Institute of the Latvian SSR Academy of Sciences. [Abstract of a Papar by Yu. A. Birzvalk, Yo. V. Brivelia, N. M. Mndezhnikov Given at the Hagnetohydrouynamit Conference, p 143] An experimental study was made of a laboratory model of a single-phase ac conduction pump with the following parameters: EXPERIMENTAL STUDY OF AN AC CONDUCTION PUMP USING A LIQUID-METAL SODIUM LOOP The basic experimental Hetal -- liquid modium for TO Dimensions of the channel core Rated output capacity Rated head Key: 1. Figure 1. Ņ B~/800 results are depicted in Figures 1 and 2. ő Pn = 0.4.10⁵ n/m² η_n = 3·10⁻³ m³/sec, = 400°C 10 × 50 × 60 mm 3 Keyr 1. m /nec Figure 2. 27 NULSHARK 1873 JPCS 60634 . . .

APPROVED FOR RELEASE: 08/09/2001

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0

UDC 615.28:547.7517.012 USSR SALDABOL, N. O., ALEKSEYEVA, L. N., BRIZGA, B.A., KRUZMETRA, L. V., and GILLER, S. A., Institute of Organic Synthesis, Riga, Academy of Sciences Latvian SSR "Synthesis and Antimicrobial Action of Furyl-Substituted Indolizine, Imidazo (1,2-a)pyrimidine, and Imidazo(2,1-b)thiazole" Moscow, Khimiko-Farmatsevticheskiy Zhurnal, Vol 4, No 7, 1970, pp 20-22 Abstract: Continuing work on the synthesis and study of antimicrobial properties of furyl-substituted heterocyclic condensed systems with apcial nitrogen atoms, the authors obtained (5-R-fury1-2) substituted indolizine (VIa, VId), imidazo(1,2-a)pyridine (VIIa, VIIb, and VIId), and imidazo92,1-b)thiazole (VIIIa-VIIIc and IXa, IXc) $(R = H, Br, and NO_2)$ and described their antimicrobial action. 1/3

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CIA-RDP86-00513R002200510001-0

USSR

SALDABOL, N. O., et al., Khimiko-Farmatsevticheskiy Zhurnal, Vol 4, No 7, 1970, pp 20-22

The minimum concentration of furylazabicycles inhibiting microorganismic growth is 100 mcg/ml, while for phenyl analogs it rises sharply. For example, for 6-phenylimidazo(2,1-b)thiazole and its n-nitroderivative the minimum concentration inhibiting growth of Staphylococcus aureus, Salmonella typhi, and Escherichia coli is 7800 mcg/ml. Thus, replacement of the phenyl with the furyl group leads to an abrupt intensification of antimicrobial action, which is intensified still further in the case of the nitrofuryllazabicycles (VIIc, VIIIC and IXc). The strongest bacteriostatic action is shown by nitrofurylimidazopyridine (VIIc), buts its aromatic analog 2-p-nitrophenylimidazo/I,z-a/pyridine is only slightly active.

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CIA-RDP86-00513R002200510001-0

SOURCE CODE: UR/0450/68/002/011/0011/0013 ACC NR: AP9001072 AUTHOR: Kalnberg, R. Yu.; Giller, S. A.; Lidak, M. Yu.; Alekseyeva, L. N.; Kruzmetra, L. V.; Brizga, B. A.; Zile, A. Ya.; Petersone, I. O. ORG: Institute of Organic Synthesis, AN LatSSR, Riga (Institut organicheskogo sinteza, AN LatSSR) TITLE: Synthesis and biological activity of methyldithiocarbazonates of unsaturated aldehydes of the 5-nitrofurane series SOURCE: Khimiko-farmatsevticheskiy zhurnal, v. 2, no. 11, 1968, 11-13 TOPIC TAGS: furan compound, organic sulfur compound, organic nitrogen compound, bactericide, fungicide, chemical synthesis ABSTRACT: In a search for new bactericides and fungicides and to study their toxicity, a series of dichiocarbazonates of 5-nitrofuran series was synthesized for the first time by the reactions CHO+H, NNHCSCH (сн=сн) (CH+CR) UDC: 612,433,544,121:454,321,112 Card 1/5

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ACC NR: AP9001072 $\{x_i\}_{i \in I}$ '∭a n=0 · ID R=H .n=/ THE R = CH2OCH3 . n=) $\mathbb{Z} \subset \mathbb{R} = CH_{1}, n = I$ $III f R = CH_1 OC_2 H_1, n = /$ *I*Ig R=H, n=1 $\mathbb{II} d \quad \mathbf{R} = \mathbf{C}_{\mathbf{1}} \mathbf{H}_{\mathbf{p}} \mathbf{n} = I$ Compounds IIIa, IIIb, and IIIg were obtained by the reaction of the appropriate compounds I and II at room temperature in ethanol with subsequent cooling to 5-10°C and removal of final product by filtration. Compound IIIc is formed when a mixture of sulfuric acid and propanol is heated to 70°C and then treated with a-methyl[B-(5-nitrofuryl)]acrolein diacetate at 75-79°C. After cooling to 50°C, the reaction mixture is treated with methyl ester of dithiocarbazic acid in isopropanol, Compounds IIId, IIIe, and IIIf were obtained by a similar procedure. The new compounds are characterized in Table 1. 2/5 1002 Card 2A

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Table 2. (Cont.)	•	•
Candida albicans67/84663,3EpidermophylonKaufman—Woll4183,3Trichophylongypseum4383,3	83,3 83,3 83,3 83,3 83,3 83,3 83,3 83,3	
unbranched chain dithiocarbazonates are more toxi alkyl and alkoxy radicals in the a-position. The values for IIIa, IIIb, IIIg, and IIIe were obtain and 1870 mg/kg, respectively. Compounds IIIc and even in doses of 6000 mg/kg. Orig. art. has: 2	e following LD ₅₀ ned 223, 116, 510, d IIId were nontoxí	•
SUB CODE: 06, 07/ SUEM DATE: 30Apr68/ ORIG RE	SF: 002/ OTH REF:	004

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USSR

UDC 621.43.011:533;621.5:533

BRIZHENYUK, N. I., POZNANSKIY, V. I., RYBAKOV, V. S., SELEZNEV, Yu. V., KHOKHLOV, Yu. G.

"On the Problem of Determining the Rate of Combustion of Fuel in Diesels"

V sb. 11-ya Vses. konf. po vopr. ispareniya, goreniya i gaz. dinamike dispersn. sistem. 1972 (11th All-Union Conference on Problems of Evaporation, Combustion and Gasdynamics of Disperse Systems, 1972 -- Collection of Works), Odessa, 1972, p 44 (from RZh-Mekhanika, No 3, Mar 73, Abstract No 3B421)

Translation: A formula for determining the rate of combustion of fuel in diesels that was proposed by one of the authors of the article is analyzed. It is shown that one of the factors determining the rate of combustion is the rate of evaporation of the fuel, which depends in turn on the thermodynamic parameters of the medium, the surface and the volume of the fuel jet. The rate of heat release was investigated as a function of the basic physicochemical parameters. Yu. F. Dityakin.

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CIA-RDP86-00513R002200510001-0

Acc. AN0101006 Ref. Code: Abstracting Service: 3-70 UR 0482 Soviet Inventions Illustrated, Section III Mechanical and General, Derwent, 244824 COMPENSATING COUPLING permits angular and axial displacement of shafts. It consists of halfcouplings 1 and 2. The fingers 3 and 4 with spherical heads are fixed to a shaft 5 which rotates in a sleeve 6. The finger heads fit into a groove made in he face of half coupling 1. The clipped (8,9) flexible jacket 7 prevents entry of dirt and contains grease. The shafts misalignment is compensated by the movement of fingers with the shaft 5 and displacement of spherical heads in the grooves. 6.10.67. as 1189852/25-27, GRIN, Yu. A. and BRIZINOV. I.E. (14.10.69) Bul. 18/28.5.69. Class 47c, Int. Cl. F 16d. CK 13 **REEL/FRAME** 19850557

APPROVED FOR RELEASE: 08/09/2001

USSR

27313100403158

BRODER, D. L., PLATOVSKIKH, Yu. A., POPKOV, K. K., SERGEYEV, I. V.

"Use of Jakobi Polynomials to Describe Propagation of Gamma Radiation"

Minsk, Vestsi Akademii Navuk BSSR: Seryya Fizika-Energetychnykh Navuk, No 1, 1973, pp 13-18

Abstract: It is shown to be possible to obtain an approximating kinetic equation in cylindrical geometry by Jacobi polynomial expansion of the angular relation containing two arbitrary parameters. The distribution function and scattering kernel are expanded by polynomials having different parameter values. A multigroup system of equations is obtained. By using Jacobi polynomials for the approximate solution of the kinetic equation written in a modified coordinate system it is possible to describe satisfactorily the space-energy relation of the radiation flux even in the first approximation.

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USSR

UDC 621.039.512.4

BRODER, D. L., ZHILKIN, A. S., KUTUZOV, A. A., POPKOV, K. K., SHESTOPALOV, Ye. V.

"Reactor Neutron Spectra in Water and Iron"

V sb. <u>Vopr. fiz. zashchity reaktorov</u> (Problems in Reactor Safety Physics --Collection of Works), No. 5, Moscow, Atomizdat, 1972, pp 79-90 (from RZh-50. Yadernyye reaktory, No 5, May 72, Abstract No 5.50.59)

<u>Translation</u>: The change in the spectrum of the scalar flux of neutrons with energies above 0.1 Mev in water and iron shields is of interest from the viewpoint of establishing quantitative characteristics of the attenuation of the flux by the shielding substance and determining the accuracy of certain methods for calculating the passage of neutrons, particularly the semiempirical method based on calculations of fluxes of intermediate neutrons in lower approximations of the spherical harmonics method and the assignment of a group of fast neutrons in accordance with experimental data. 12 ill., 11 ref.

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USSR

UDC 621.039.512.45

BASS, L. P., BRODER, D. L., ZHILKIN, A. S., KUTUZOV, A. A., SMETANIN, A. A., SUVOROV, A. P., SHESTOPALOV, Ye. V., SHIPILOV, A. Ye.

"Reactor Neutron Spectra in a Cylindrical Neutron Duct Surrounded by Water"

V sb. Vopr. fiz. zashchity reaktorov (Problems in Reactor Safety Physics --Collection of Works), No. 5, Moscow, Atomizdat, 1972, pp 123-129 (from RZh-50. Yadernyye reaktory, No 5, May 72, Abstract No 5.50.61)

<u>Translation</u>: The energy and spatial distributions of neutrons with energies above 200 kev in an iron cylindrical neutron duct at distances up to 66 cm from its origin are discussed. The experimental data are compared with computational results made by two-dimensional programs using the P_1 approximation of the spherical harmonics method and the $2D_{10,5}$ -approximation of the characteristic method. The presence of experimental data on the neutron energy spectra makes possible a corrective check on the methods for calculating the parameters of shields of limited transverse dimensions. 7 ill., 8 ref.

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USSR

BRODER, D. L., GAMALIY, A. F., ZEMTSEV, B. V., NESTEROV, B. V., and KHAM'YANOV, I. T. (Institute of Physics and Power Engineering)

"Gamma Radiation Upon Capture of Thermal Neutrons by Isotopes of Cr"

Moscow, Yadernaya Fizika, Vol 13, No 2, 1971, pp 233-239

Abstract: This work is devoted to the study of the spectra of gamma radiation arising upon capture of thermal neutrons by Cr isotopes, by means of a Ge-Li gamma spectrometer. The isotopes of chromium studied are Cr^{50} , Cr^{52} , and Cr^{53} . The yield of gamma lines per 100 captures of neutrons in each isotope are determined. Diagrams of the energy levels of Cr^{51} , Cr^{53} , and Cr^{54} nuclei are presented. The results are compared with the data of other authors. In general the data agree well with the data of recent works concerning the energy of individual gamma lines, but not as well concerning their yield. A number of new gamma lines are observed, particularly for Cr^{50} and Cr^{52} .

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EAST GERMANY / SOVIET UNION

BRODER, D. L., GUREEV, V. I., and KOZLOVSKII, S. A., Institute for Physics and Fower Engineering, G. Obninsk, Kaluzhskaya Oblast), Obninsk, USSR.

"On the Passage of Gamma Rays Through Heterogeneous Media"

East Berlin, Kernenergie, Vol 14, No 4, Apr 1971, pp 121-124.

Abstract: [Russian article] [Authors' English summary, modified] Calculations of gamma rays flowing through heterogeneous media imply knowledge of effective absorption coefficients and buildup factors for all types of shielding. ¹³⁷Cs and 60Co gamma-ray attenuation functions were studied experimentally in water shields containing insertions of variable-diameter rods. The spacing between rods was varied also. Semiempirical relations were proposed on the basis of the gamma-ray doses measured. These relations are useful for calculating the topography of radiation fields in the case of point or line sources. Eight references, including 1 German, 1 Western, and 6 Russian. (Manuscript received 26 Oct 1970). 1/1

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NUCLEAR SCI. ABST. 170 UR0089 AP0035500 1982 TRANSPORT OF THE NUCLEAR RADIATION IN SHIELD IRREGULARITY. Broder, D. L.; Mashkovich, V. P.; Mironov, V. N.; Popkov, K. K.; Tsypin, S. G. At. Energ. (USSR), 27: 313-23(Oct. 1969). (In Russian). Methods of calculating radiation transport in ducts and slots of the nuclear reactor shielding are analyzed. The calculation results are compared with the experimental data. The experimental facilities for investigating neutron and gamma transport in ducts and slots are described. 54 references. (auth) mT $|\hat{l}|$ ۱/*լ* 19720210

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0
1/2 007 UNCLASSIFIED PROCESSING DATE090CT70 TITLEPREPARATION OF SIPHON AND LADLE CERAMICS USING ARKALYK CLAYS -U-
AUTHOR-(03)-BRUDETSKIY, G.G., KARPUVA, N.D., VASILTSOV, V.M.
COUNTRY OF INFOUSSR B
SOURCEOGNEUPORY 1970, 35(2), 1-3
DATE PUBLISHED70 SUBJECT AREASMATERIALS
TOPIC TAGS-CLAY, TECHNICAL STANDARD, REFRACTORY MATERIAL
CUNTROL MARKING-NU RESTRICTIONS
DOCUMENT CLASSUNCLASSIFIED PRUXY REEL/FRAME1992/1980 STEP NOUR/0131/70/035/002/0001/0003
CIRC ACCESSION NUAP0112944 UNCLASSIFIED

"APPROVED FOR R	ELEASE: 08/09/2001	CIA-RDP86-00513R002	2200510001-0
2/2 007 CIRC ACCESSIGN NDAPO ABSTRACT/EXTRACT(U) (112944 ЗР-о- Авѕтраст. Арка		GENOUS AL
33PERCENT FOR PRODUCT STD. GUST. AT CONCUR INCREASE TEMP. 50DEGR	RENT BURNING OF SKEWB REES, THUS LOWERING PO	ENSURES REQUIREMENTS ACK BRICKS IT IS POS RUSITY OF THE BRICKS	OF SOVIET SIBLE TO
FACILITY: CI	HELYAVINSK MET. ZAVOD,	CHELYABINSK, USSR.	
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	UNCLASSIFIED		89

CIA-RDP86-00513R002200510001-0

USSR

BRODI, S. M. and POGOSYAN, I. A.

"Imbedded Stochastic Processes in Queueing Theory"

Vlozhennyye Stokhasticheskiye Protsessy v Teorii Massovogo Obsluzhivaniya [English version above], Kiev, Nauk. Dumka Press, 1973, 127 pp (Translated from Referativnyy Zhurnal Kibernetika, No 10, 1973, Abstract No 10V67K)

Translation: The specifics of queueing theory problems have made it necessary to construct new classes of Markov processes and various modifications of the processes, allowing them to be solved by the most effective means. These processes include embedded Markov chains, line processes, semi-Markov processes, processes with semi-Markov case interference, embedded semi-Markov processes, etc. This book studies a class of problems of queueing theory which can be studied by methods of embedded random processes. Since many processes encountered in queueing theory are not Markov processes by nature, in many cases their investigation can be simplified by application of embedded processes. The possibility of using embedded processes for the solution of queueing theory problems was first demonstrated by A. YA. Khinchin, and was later developed in the works of D. Kendall and L. Takach. In these works, the authors studied the behavior of systems at specially selected moments in time when the states of the systems form a homogeneous Markov chain, which Kendall calls an embedded Markov chain. Thus, by using the well-17.

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USSR

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BRODI, S. M. and POGOSYAN, I. A., Vlozhennye Stokhasticheskiye Protsessy v Teorii Massovego Obsluzhivaniya, Kiev. Nauk. Dunka Press. 1975, 127 pp

developed apparatus of Markov chains, many problems of queueing theory can be solved without the application of multidimensional Markov processes. Embedded processes also include semi-Markov processes defined by P. Levi, using which a number of important indicators of the operation of queueing systems can be determined.

The transition from the initial processes to embedded processes leads to a certain loss of information, but in many cases the characteristics of the embedded processes are sufficient for determination of the required parameters of the processes studied. The possibility of solution of queueing models by methods of embedded Markov chains and semi-Markov processes has dictated the expediency of development of new classes of embedded processes for analysis of a bracder range of problems. This book presents methods of construction of embedded semi-Markov processes which are used to study processes with discrete case interference. Particular attention is given to the application of such processes to the description of systems with variable operating modes, systems whose behavior is controlled by a semi-Markov process. The introduction of a random process, virtual waiting time, is used to find solutions for queueing models with limitations. This approach allows the authors to study From the foreward priority systems.

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"APPROVED FOR RELEASE: 08	/09/2001	CIA-RDP86-00513R002200510001-0
1/2 047 UNC TITLECHANGE IN THE DISPERSION SULFIDE CRYSTAL UNDER THE INFLU AUTHOR-(02)-BRODIN.M.S., KAMUZ,	LASSIFIED AND EXCITON JENCE OF IN	ABSORPTION OF A CADMIUM
CCUNTRY CF INFO-USSR	Ĺ	5
SCURCEFIZ. TVERD. TELA 1970, 12	2(4), 1251-	
DATE PUBLISHED70		
SUBJECT AREASPHYSICS		
TCPIC TAGS—CADMIUM SULFIDE, RUBY DISPERSION, EXCITON ABSORPTION, CRYSTAL PROPERTY		
CENTREL MARKING-NO RESTRICTIONS		
DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME-2000/1301	STEP NOU	R/0181/70/012/004/1251/1253
CIRC ACCESSICN NGAP0124952 UNCLASS	IFIED	

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0

PROCESSING DATE-20NOV70 047 UNCLASSIFIED 2/2 CIRC ACCESSION NO--AP0124952 ABSTRACT. VARIATION OF OPTICAL PROPERTIES ABSTRACT/EXTRACT-- (U) GP-0-WAS STUDIED OF CDS CRYSTAL UNDER THE ACTION OF POWERFUL RUBY LASER RADIATION (1.78 EV). SPECTRA WERE OBTAINED OF EXCITON ABOSRPTION AND MEASUREMENTS WERE CARRIED OUT OF THE SPECTRAL DEPENDENCE OF THE HAGNITUDE OF BIREFRINGENCE OF CDS DURING THE ACTION OF LASER RADIATION AND IN ITS ABSENCE. THE LINES OF FREE EXCITONS ARE SHIFTED TOWARD THE LONG WAVELENGTH SIDE BY APPROX. 60 CM NEGATIVE PRIME1. TIME DEPENDENCE UF THE CRYSTAL TRANSPARENCY WAS MEASURED ON THE FREQUENCY OF 20,360 CM NEGATIVE PRIMEL. LASER PULSE DARKENING OF THE CRYSTAL DISAPPEARS WHEN THE PULSE CEASES. IT FOLLOWS THAT UNDER THE ACTION OF A POWERFUL LASER RADIATION, NOTICEABLE CHANGES CAN TAKE PLACE IN THE DISPERSION OF CDS CRYSTALS DUE TO VARIATIONS IN THE ABSORPTION SPECTRUM. THE LATTER ARE MAINLY DUE TO THE FIELD ACTION OF THE RACIATION. FACILITY: INST. FIZ., KIEV, USSR. UNCLASSIFIED

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0 PROCESSING DATE-- 13NOV70 UNCLASSIFIED 025 TUTLE--ENERGETIC STRUCTURE OF CUS CRYSTAL AND FORM OF ITS EXCITION BANDS AUTHOR-1021-BRODIN. M.S., STRASHNIKOVA, M.I. -U-COUNTRY OF INFO--USSR SCURCE--UKRAYIN. FIZ. ZN. (USSR), VOL. 15, NO. 5, P. 705-11 (MAY 1970) DATE PUBLISHED---- MAY 70 SUBJECT AREAS--PHYSICS TOPIC TAGS--EXCITON, CAUMIUM SULFIDE, ABSORPTION SPECTRUM, LINE SPLITTING, ENERGY BAND STRUCTURE, SINGLE CRYSTAL • CONTROL BARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0185/70/015/005/0705/0711 PROXY REEL/FRAME--3005/1806 CIRC ACCESSION NO--AP0133711 undents (Fiel

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"APPROVED FOR RELEASE: 08/	-
1/2 027 UNCL/ TITLETEMPERATURE DEPENDENCE OF S	ASSIFIED PROCESSING DATE27NOV7O STIMULATED RADIATION FROM ZNS SUBX,CDS ON EXCITATION -U- P.I., VITRIKHOVSKIY, N.I., ZAKREVSKIY,
COUNTRY OF INFOUSSR	
SOURCEFIZ. TEKH. POLUPROV. 1970	, 4(3), 522~6
DATE PUBLISHED70	
SUBJECT AREASPHYSICS	
TOPIC TAGSZINC SULFIDE, CADMIUM CRYSTAL	SULFIDE, LUMINESCENCE, PHONON, MIXED
CONTROL MARKINGNO RESTRICTIONS	
DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME1994/0989	STEP NOUR/0449/70/004/003/0522/0526
CIRC ACCESSION NOAP0115010 UNCLASS	
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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0 2/2 027 UNCLASSIFIED PROCESSING DATE--27NOV70 CIRC ACCESSION NO--AP0115010 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. STIMULATED AND SPUNTANEOUS LUMINESCENCE OF MIXED CRYSTALS OF ZNS (9PERCENT) AND CDS (91PERCENT) AT 4DEGREESK ARE STUDIED; ALSO, THE TEMP. DEPENDENCE OF FREQUENCY AND THE MECHANISM OF STIMULATED RADIATION IN THE 4-120DEGREESK RANGE ARE DISCUSSED. AT COMPARATIVELY LOW TEMPS. (4-66DEGREESK) LASING OF THE CRYSTAL OCCURS VIA BOUND OR RECOMBINED EXCITONS. BETWEEN 66 AND 120DEGREESK, LASING ARISES THROUGH FREE EXCITONS WITH LINEAR OPTICAL PHONON PARTICIPATION. FACILITY: INST. FIZ., KIEV, USSR. UNCLASSIFIED

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0 PROCESSING DATE--230CT70 UNCLASSIFIED TITLE--ROLE OF PHONONS IN THE STIMULATED EMISSION OF CDS SUBX NEGATIVE SE SUB1 MINUS X CRYSTALS DURING TWO PHOTON EXCITATION -U-AUTHOR-(03)-BRODIN, M.S., BUDNIK, P.I., REZNICHENKO, V.YA. COUNTRY OF INFO--USSR SOURCE-FIZ. TVERD. TELA 1970, 12(3), 710-15 DATE PUBLISHED-----70 . SUBJECT AREAS--PHYSICS TOPIC TAGS--LASER RADIATION, STIMULATED EMISSION, EMISSION SPECTRUM, CADMIUM SULFIDE, SELENIDE, EXITON, PHONON SPECTRUM, CRYDGENIC PROPERTY CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0181/70/012/003/0710/0715 PROXY REEL/FRAME--1987/1984 CIRC ACCESSION NO--AP0105058 UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0"

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0

PROCESSING DATE--230CT70 2/2 046 UNCLASSIFIED CIRC ACCESSION NO--AP0105058 ABSTRACT. AT 4 AND 77DEGREESK, AHSTRACT/EXTRACT--(U) GP-0-INVESTIGATIONS WERE CARRIED OUT OF THE SPECTRA OF STIMULATED RADIATION OF THE SOLID SOLN. CDS SUBX SE SUBINEGATIVEX OF VARIOUS COMPNS. IN 2 PHOTON EXCITATION BY A RUBY LASER, AND THE CONDITIONS WERE ANALYZED FOR THE APPEARANCE IN THE PROCESS OF GENERATION OF A COMPLEX PHONON SPECIRUM FOR FREE AS WELL AS FOR BOUND EXCITONS. FOR CRYSTALS WITH A PREDOMINANT CONTENT OF 1 OF THE COMPONENTS AT 77DEGREESK, GENERATION TAKES PLACE ON FREE EXCITIONS WITH PARTICIPATION OF 1 LONGITUDINAL OPTICAL PHONON (LO SUBL OR LO SUB2). FOR CRYSTALS WITH COMPARABLE CONCNS., BOTH LO SUBL AND LO SUB2 PARTICIPATE IN THE PROCESS OF GENERATION (2 PHONON TRANSITIONS). WHEN TEMP. DECREASES TO 4DEGREESK, WHEN GENERATION TAKES PLACE ON BOUND EXCITIONS DEPENDING ON THE MAGNITUDE AND SPECTRAL DISTRIBUTION OF LOSSES, FOR SOME CRYSTALS, TRANSITIONS CAN BE REALIZED WITH RADIATION OF LONGITUDINAL OPTICAL PHONONS AND WITHOUT THE FACILITY: INST. FIZ., KIEV, USSR. RADIATION.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0 (c) Explored a solution with all the branches PROCESSING DATE--18SEP70 UNCLASSIFIED TITLE--ELIMINATION OF MULTIPLE DRUG RESISTANCE IN COLI BACTERIA BY AURANTIN AND ULTRAVIOLET LIGHT -U-AUTHOR-(03)-BRODINGVA, N.S., MOROZ, A.F., GLATMAN, L.I. COUNTRY OF INFO--USSR SOURCE--ANTIBIOTIKI, 1970, VOL 15, NR 3, PP 244-249 DATE PUBLISHED-----70 SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--ESCHERICHIA COLI, DRUG RESISTANCE, ACTINOMYCES, STREPTOMYCIN CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP ND--UR/0297/70/015/003/0244/0249 PROXY REEL/FRAME--1985/0472 CIRC ACCESSION NO--AP0100950 UNCLASSIFIED 25 22 12

CIA-RDP86-00513R002200510001-0

PROCESSING DATE--18SEP70 UNCLASSIFIED 2/2 016 CIRC ACCESSION NO--AP0100950 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IT WAS SHOWN THAT AURANTIN, AN ANTICANER ANTIBIOTIC FROM THE GROUP OF ACTINOMYCINS ELIMINATED MULTIPLE DRUG RESISTANCE IN ONE OF THE TWO STRAINS OF E. COLI STUDIED AT A RATE IN CULTURES OF E. COLI (R PRIME PLUS) TREATED WITH OF 0.5PERCENT. AURANTIN, SEGREGATION OF THE RESISTANCE MARKERS FROM R FACTOR WAS ALSO OBSERVED AND SEGREGANT CLONES WITH ELIMINATED RESISTANCE MARKERS (TC PRIMECH) LM-PRIMEP SM PRIMEP, (LM PRIMECH SM PRIMECH), TC PRIMEP SU PRIMEP (SM PRIMECH) TO PRIMEP NEGATIVE LM PRIMEP SU AND R COLONIES (TO PRIMECH LM PRIMECH SM PRIMECH SU PRIMECH) WERE FORMED. ON' COMBINED TREATMENT WITH AURANTIN AND ULTRAVIOLET LIGHT THE NUMBER OF R COLONIE AND SEGREGANT CLONES (TC PRIMECH) LM PRIMEP SM PRIMEP SU PRIMEP SENSITIVE TO TETRACYCLINE SIGNIFICANTLY INGREASED (UP TO 30.4PERCENT). AT THE SAME TIME ADDITIONAL COLONIES WITH SEGREGATED RESISTANCE MARKERS (SM PRIMECH SU PRIMECH) TO PRIMEP SU PRIMEP SENSITIVE TO STREPTOMYCIN AND SULFADIMEZINE WERE DETECTED. COLONIES WITH LOST R FACTOR ACQUIRED IT UNDER THE EFFECT OF AURANTIN AND ULTRAVIOLET LIGHT AT A RATE OF 10 PRIME NEGATIVES. NO TRANSFERANCE OF TETRACYCLINE AND SULFADIMEZINE RESISTANCE MARKERS NOT ELIMINATED BY AURANTIN AND ULTRAVIOLET LIGHT WAS OBSERVED ON CONJUGATION WITH THE RECIPIENT CELLS SENSITIVE TO THESE SENSITIVITY TO AURANTIN OF E. COLI STRAINS, CARRYING R FACTORS, AND SEGREGANT CLONES WITH ELIMINATED RESISTANCE MARKERS DID NOT CHANGE.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0 BRODOLIN, L. J. . (omputers) The contents of this publication have been translated as presented in the original text. No attempt has been made to wrife the accuracy of any statement constand, herein. This translation is publiched with a minimum of copy editing and graphus preparation in order to expedite the dissemination of information. Requests for additional copies of this document should be addressed to Department A. National Technical Information Service, Springfield, Virginal 22151. Approved for public release: distribution unlimited. SOURCE: Opisaniye Izobreteniya k Avtorskomu Svidetel'stvu No. 220315, filed 20 June 1966 (% 1084435/26-24) and published 16 Sep 1968 ENCLISH TITLE: Long-term Optical Memory Unit FOREICN TITLE: Dolgovremennoye opticheskoye zapominayushcheye ustroystvo lranslated for FSTC by AUTHOR: (inventors:)_A._Z._.kan, L. A P. L. Vilenskiy TECHNICAL TRANSLATION ÷ Leo Kanner Associates, Redwood City, Cn. 94061 FSTC-HT-23- 1162-71 ROHCE ۍ. ۲ 2 5805493 Drachey- L ٢ all acompositions Brodelin, ح ۲ and G LURIA -----**.**....

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BRODOLIN, L. I., VAYNSHTEYN, V. D., DRACHEV, L. A., KAN, A. Z., KUZNETSOV, B. A., MININ, Yu. P., and PETRUNICHEV, V. N. "Long-Term Photoscopic Memory" USSR Author's Certificate No 260926, filed 7 Oct 68, published 10 Jun 70 (from RZh-Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 6, Jun 71, Abstract No 6 B325 P) Translation: A long-term photoscopic memory designed for storing, retrieving, and selecting a symbol image is proposed. The memory contains a light spot commutator -- for example, a cathode ray tube -- a projection objective with telecentric behavior of the beams in the image space, a lense raster information unit, a fast collective, a transmitting cathode ray tube with storage -- for example, the superorthicon type and digital and analog tracking systems for setting the spot on a given address. The memory is distinguished by the fact that to prevent charging the target when retrieving the required microframe, the device contains an electronic image modulator in the transfer section of the transmitting TV-tube. In order to insure a broad range of variation of the capacity of the TV frame and the selection rate, the target of the transmitting TV tube is executed in the form of a metal fiber disc with a coefficient of secondary emission

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BRODOLIN, L. I., et al., USSR Author's Certificate No 260926, filed 7 Oct 68, published 10 Jun 70 (from RZh-Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika , No 6, Jun 71, Abstract No 6 B325 P)

of the side turned toward the photocathode equal to one. In order to simplify the design and insure the possibility of recording the service information used during operation of the tracking systems in the microframe, the device contains a fiber, vacuum-tight coherent light guide with a cross section equal to the size of the symbol in the focal plane of the collective. The photocathode of the transmitting TV tube is applied to the output end of the light guide, and the input ends of the light guides connected with the photomultipliers of the tracking address system are arranged around the perimeter of the input end. In order to insure the required levels of light flux from the standing light spot, the light spot commutator executed in the form of a cathode ray tube contains a built-in screen which vibrates in its own plane. There is 1 illustration.

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1/2 018 UNC TITLEREGULATION OF CONTINUOUS	CLASSIFIED PROCESSING DATE13NOV70 SOLUTION POLYMERIZATION -U-
AUTHORBRODOV, D.YU.	
COUNTRY OF INFOUSSR	
SOURCEU.S.S.R. 276,072 REFERENCEOTKRYTIYA, IZOBRET., DATE PUBLISHEDOLAPR70	PROM. OBRAZTSY, TOVARNYE ZNAKI 1970,
SUBJECT AREASCHEMISTRY	
TOPIC TAGSCHEMICAL PATENT, CON POLYMERIZATION, CATALYST, ORGA	JUGATE BOND SYSTEM, SOLUTION NOMETALLIC COMPOUND, DIENE
CONTROL MARKINGNO RESTRICTIONS	
OOCUMENT CLASSUNCLASSIFIED PRDXY REEL/FRAME3004/1779	STEP NDUR/0482/70/000/000/0000/0000
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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0

2/2 018 UNCLASSIFIED PROCESSING DATE--13NOV70 CIRC ACCESSION NO--AA0132045 ABSTRACT/EXTRACT--(U) GP-O-ABSTRACT. CONTINUOUS SOLN. POLYMN. OF CONJUGATED DIENES OVER A COMPLEX ORGANOMETALLIC CATALYST WAS REGULATED BY STABILIZING THE TEMP. IN THE REACTION ZONE BY VARYING THE INPUT OF CATALYST DURING THE STABILIZED INPUT OF MONOMERS. TO STABILIZE THE CONVERSION OF THE MONOMERS AND IMPROVE THE QUALITY OF THE POLYMERS, THE HEAT LOWERED BY A COOLANT AND THE HEAT INTRODUCED INTO THE REACTOR BY THE CHARGE WERE MEASURED. THESE VALUES WERE ADDED UP, AND THE TEMP. OF THE CHARGE OR THE CONSUMPTION OF COOLANT WAS CHANGED IN RELATION TO THE DIFFERENCE BETWEEN THE ACTUAL AND INTENDED HEAT REMOVAL. FACILITY: LEBEDEV, S. V., ALL UNION SCIENTIFIC RESEARCH INSTITUTE OF SYNTHETIC RUBBER.

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002200510001-0

USSR

UDC 616.931.718-036

BRODOV, L. Ye., First Municipal Hospital, Dzheskazgan (Kazakhstan)

"A Case of Q Fever With a Peculiar Course"

Moscow, Klinicheskaya Meditsina, No 2, 1973, pp 144-145

Abstract: Description of a case of Q fever simulating acute abdomen. A 30year-old male was hospitalized with a tentative diagnosis of typhoid; the symptoms included elevated temperature, headache, chills. A week later sharp pain appeared in the right hypogastrium. X-rays and blood tests presented a picture of acute abdomen probably caused by destructive cholecystitis. An emergency laparotomy failed to reveal any pathology in the abdominal cavity. A gradual improvement the next few days was followed by the reappearance of headaches, elevated temperature, chills, slight jaundice of the sclera. Administration of tetracycline and levomycetin resulted in normalization of the temperature and subsidence of pain in the abdomen, thorax, and lumbar region. On day 28 the complement-fixation test with Coxiella burnetii as antigen was positive for the first time.

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CIA-RDP86-00513R002200510001-0

USSR

UDC 616,988.73

BRODOV, L. YE., Candidate of Medical Sciences

"Ornithosis"

Moscow, Meditsinskaya Sestra, No 6, 1971, pp 20-24

Abstract: Ornithosis is an acute infectious disease of viral origin that is transmitted to man by infected wild birds and poultry. Some 38 species of birds in the USSR are susceptible to the agent of ornithosis. This general account of the disease touches on the characteristics of the virus, mode of transmission from bird to bird and from bird to man, incubation period, pathogenesis, main symptoms, usual course, x-ray picture, organs involved, hematologic effects, complications, laboratory techniques of diagnosis, treatment, and prevention.

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APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002200510001-0

USSR

UDC: 616.981.718

BRODCV, L. Ye., Candidate of Medical Sciences, Second Moscow Clinical Hospital of Infectious Diseases

"Q Fever"

Moscow, Meditsinskaya Sestra, No 11, Nov 70, pp 17-20

Abstract: A general description of Q-fever is presented. The following aspects are covered: the agent; the ticks that serve as reservoirs of the agent; various modes of transmission of the disease (in the city, by eating infected food; in rural areas, by handling diseased animals); polymorphic symptoms of the disease; nature of involvement of the lungs, gastrointestinal tract, and nervous system; possibility of recurrences; differential diagnosis; laboratory tests, therapy;

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USSR

UDC: 550.834

BRODOV, L. Yu., VEDERNIKOV, G. V., KOCHUGOV, N. A., LUKASHENKO, V. F., MUKHUTDINOV, R. A., "Tatneftegeofizika" Trust

"A Device for Automatic Processing of Seismic Recordings"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 11, Apr 72, Author's Certificate No 333511, Division G, filed 25 Jan 71, published 21 Mar 72, pp 183-184

Translation: This Author's Certificate introduces a device for automatic processing of science recordings. The device contains operational drums with the primary information media, readout units, a computer unit, a correction unit and a registration unit. As a distinguishing feature of the patent, in order to suppress regular interference waves and retain the shape of the primary signal, the outputs of the readout units are connected through adders and subtractors, the computer unit and a discriminator to a switching element connected in the registration circuit to connect the output of the subtractor to the correction unit and the registration unit.

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USSR

PISKAREVA, N. A., KUZNETSOVA, E. Ye., POPOVA, R. P., <u>BRODOVA, M. D.</u>, TRUSHINSKAYA, E. P., and YAKIMANSKAYA, K. I., Leningrad Scientific Research Institute of Childrens Infections

"Virological, Clinical and Immunological Characterization of Hong Kong A2 Influenza in Children"

Moscow, Voprosy Virusologii, No 4, Jul/Aug 71, p 492

Translation: The 1969 influenza outbreak in Leningrad was caused by a new antigenic strain of influenza virus of sero type A2 (Hong Kong). During the outbreak, tests were performed on chick embryos infected with materials collected from 53 patients with sporadic forms of the disease, with eight samples collected from foci, and with 10 samples collected from children who had died of influenza. Twenty-three hemagglutinating agents were isolated and identified as A2 Hong Kong influenza viruses. All strains were sensitive to inhibitors. Serological investigation of paired sera of 388 persons revealed that specific immunological shifts took place in children fairly early. Positive shifts occurred in 40.2% of children aged up to 1 year, which considerably exceeded analogous shifts in a similar group of children in previous years. The express mothod of immunofluoroscent analysis of nose and throat smears yielded positive 1/2

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PISKAREVA, N. A., et al, Voprosy Virusologii, No 4, Jul/Aug 71, p 492

results in 104 out of 165 ill children (635). Combined positive results by the express method and by the serological method were obtained in about 835 of the total number of individuals examined during the influenza outbreak.

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USSR

UDC 669.15.018.8:620.196.2

POSYLAYEVA, L. I., SMIRNOVA, A. V., and BRODOVA, V. N.

"The Nature of Intercrystalline Corrosion in Low-Carbon Fe-Cr-Ni-Mo-Austenitic Steel"

Sb. tr. TSNII chern, metallurgii (Collection of Works of Central Scientific Research Institute of Ferrous Metallurgy), 1970, vyp. 77, pp 86-92 (from RZh-Metallurgiya, No 3, Mar 71, Abstract No 31595 by authors)

Translation: Austenitic steel of the type OCOKh2ON2ON4 with varying degree of niobium stabilization was studied. The principal excess phases in steel without Nb are chromium carbides; in understabilized steel, the sigma phase, NbC, and dispersed chromium carbides of the type $Me_{23}C_6$; in stabilized steel, the sigma phase and NbC. It was found that steel without Nb and understabilized steel are susceptible to intercrystalline corrosion in wet-process phosphoric acid. The reason for the appearance of intercrystalline corrosion is the formation of finely dispersed eutectic-type chromium carbides of the type $Me_{23}C_6$, which, precipitating out on the grain boundaries and in the boundary

zones, cause sharp chromium depletion of solid-solution regions directly adjacent to the carbide particles. Two illustrations. One table. Bibliography with two titles. 1/1

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USSR

WDC 620.196.2.001.5

POSYSAYEVA, L. I., SMIRNOVA, A. V., and BRODOVA, V. N.

"The Nature of Intercrystalline Corrosion in Low-Carbon Fe-Cr-Ni-Mo Austenitic Steel"

Spetsial'nyye Stali i Splavy (Special Steels and Alloys -- Collection of Works), No 77, Metallurgiya Press, 1970, pp 86-92

Translation: A study is made of type 000Kh20N20M4 austenitic steel with various degrees of stabilization by niobium. The primary excess phases in the steel without niobium are chromium carbides; in the incompletely stabilized steel -- the O' phase, NbC and dispersion chromium carbides such as Me_{23C_6} ; in the stabilized steel -- the O' phase and NbC.

² It is established that the steel without niobium and the incompletely stabilized steel are inclined to intercrystalline corrosion (ICC) in extraction phosphoric acid.

The reason for the appearance of ICC is the formation of finely dispersed eutectic-type chromium carbides such as $Me_{23}C_6$ which, separating on the grain boundaries and in the boundary zones, cause a sharp chromium impoverishment of sectors of the solid solution immediately adjacent to the carbide particles. 2 figures; 1 table; 2 biblic. refs. 1/1

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	- 485 -	• • • •	Laser Emission Modulation	Optimization of Optical-Band Quantum Counting Systems	Relation of the Distribution Functions of a Quasimonochromatic Signal and Its Amplitudes	Application of Semiconductor Lasers for Multichannel Optical Communications	Potential Accuracy of Measuring the Angular Pomition of Photon Source	Quantum Mechanical Description of Some Procedures of Nonparametric Statistics	Statistical Description of Nermitian and Laguerre Photon Fluxes		Effect of Amplitude and Phase Field Distribution at a Lawer Output on the Spatial Coherence of the Lamer Emission	Frequency-Space Correlation Function of the Amplitudes of Maves Propagated in a Locally Teotropic Turbulent Atmosphere	Analysis of the Synchronization of an Optical Communication Channel with Time Division Multiplexing of the PCH Trunks	Optimization of an Optical Neterodyning System	Reception of a Fluctuatiag Opticalisional	
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BRODOVOY V. A., DERIKOT, N. Z.

"Properties of GaAs: Cu in Strong Electric Fields"

Leningrad, Fizika i Tekhnika Poluprovodnikov, Vol 6, No 2, 1972, pp 276-280

Abstract: In phenomena for which the deviations of the current carrier concentrations from equilibrium are observed, the capture processes in the traps can play a significant role. If the formation of nonequilibrium current carriers is the result of internal ionization in the semiconductor as a result of an external electric field, it is possible to expect that the capture of the carriers by deep traps leads to characteristic features of the volt-ampere characteristics of the samples. A study was made of the behavior of semiinsulating GaAs: Cu in strong electric fields at $T = 77^{\circ}$ K. The parallel effect of two mechanisms --- generation of nonequilibrium current carriers as a result of a strong field mechanism and capture of them by deep traps -- leads to switching of the sample to the state with high currents. A study was made of the effect of infrared radiation from the photocurrent extinguishing region on the dark current through the sample. Negative photoconductivity was detected in the same spectral region as extinguishing of the photocurrent. Graphs are presented showing that the extinguishing and negative photocurrent spectra have a boundary 1/2

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BRODOVOY, V. A., et al., Fizika i Tekhnika Poluprovodnikov, Vol 6, No 2, 1972, pp 276-280

at $E_v = 0.41$ electron volts which agrees with $E_v = 0.39-0.45$ electron volts for the energy position of the centers of sensitivity in GaAs: Cu. The step form of the growth of the photocurrent is connected with capture of the holes by deep traps.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200510001-0 190044619 Ref. Code: VR04 Acc. Nr: PRIMARY SOURCE: Klinicheskaya Meditsina, 1970, Vol 43, Nr / , pp 61-66 HIATUS HERNIA AND PEPTIC ULCER A. S. Slepenko, A. L. Grebenev, M. M. Salman, A. A. Brodzkaya Summary The results of studies of 50 patients suffering from gastroduodentl papile ulcer are are-sented. For the detection of histus hernia the authors conducted complex studies industry rountgenological investigation and esophagotonokymography. Axial hernia was represented in 20 per cent of patients, this giving grounds to consider it as one of the complications of these. The concomitance of histus hernia changes somewhat the clinical picture and requires certain corrections in the treatment of patients with peptic ulcer. 1/1



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2/2 027 UNCLASSIFIED PROCESSING DATE--230CT70 CIRC ACCESSION NO--AP0119201 ABSTRACT/EXTRACT--(U) GP-0-STRACT/EXTRACT--(U) GP-O- ABSTRACT. A RAPID METHOD FOR THE SUGAR DETN. IN BLOOD WAS DESCRIBED. TO 0.8 ML OF 1.5PERCENT 3,5-DINITROSALICYLIC ACID, 0.1 NL OF BLOOD AND 0.1 ML OF PHYSIOL. SOLN. WERE ADDED AND THE MIXT. WAS CENTRIFUGED. TO 0.5 ML OF THE SUPERNATANT, 0.5 ML OF A SOLN. CONTG. 13,8 G PHENOL IN 350 HL OF LOPERCENT NACH PLUS 510 G SEIGNETT SALT IN 800 ML WATER WAS ADDED AND HEATED FOR 3 MIN ON A BOILING WATER BATH. AFTER DILN., ABSORBANCE WAS MEASURED WITH THE USE OF A GREEN THE VALUES OBTAINED BY THE DESCRIBED METHOD WERE 10.3PERCENT -FILTER. LOWER THAN THE VALUES OBTAINED BY THE HAGEDORN JENSEN METHOD AND A LITTLE HIGHER THAN THE VALUES OBTAINED BY THE HEXOKINASE METHOD. FACILITY: LENINGRAD. NAUCH ISSLED. NEIROKHIR. INST. IM. POLENOVA, LENINGRAD, USSR. i ł UNCLASSIFIED

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Aluminum and Its Alloys

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BRODSKAYA, R. M., and KOLACHEV, B. A., MOSCOW Aviation Technological Institute, Chair of the Science of Netals and of the Heat Treatment of Metals

"Morphology of Al₉FeNi Phase in Ternary Alloy of Al - Fe - Ni System and in AK4-1 Alloy"

Ordzhonikidze, Izvestiya Vysshikh Uchebnykh Zavedeniy, Tsvetnaya Metallurgiya, No 5, 1973, pp 111-113

Abstract: The alloying Fe and Mi elements, when introduced into $AK^{4}-1$ alloy, each from 0.8 and 1.3%, are distributed between the solid solution on Al base and the Al₉FeNi phase. Ni does not change the recrystallization temperature of Al alloys; apparently its role is to bond Fe into the Al₉FeNi phase and to prevent the development of the brittle compound Al₇-CuFe. Form and dimensions of separations of the Al₉FeNi phase have been studied on the ternary modelalloy containing Al and 1% Fe and 1% Ni and on the AK4-1 alloy with the same Fe and Ni contents. Eutectic separations of lamellar type observed in the structure of cast Al alloys and the different character of phase separations 1/2

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BRODSKAYA, R. M., and KOLACHEV, B. A., Izvestiya Vysshikh Uchebnykh Zavedeniy, Tsvetnaya Metallurgiya, No 6, 1973, pp 111-113

in the AK4-1 alloy are discussed by reference to photographs. A supposition is given for the mechanism of the observed development of small-dispersed particles. Two figures, six bibliographic references.

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UDC 612.45+612.766.1

MATLINA, E. Sh., VASIL'YEV, V. N., and <u>BRODSKAYA, T. V.</u>, Laboratory for Problems in Control of Functions in Animals and Man, Academy of Sciences USSR imeni, N. I. Grashchenkov, and Division of the Physiology Labor All-Union Scientific Research Institute of Railroad Hygiene, Ministry of Railroads USSR

"Excretion of Catecholamines and Their Precursors in Night and Day Workers"

Leningrad, Fiziologicheskiy Zhurnal SSSR, No 7, 1971, pp 1,027-1,031

Abstract: Study of the activity of the sympatheticoadrenal system in railroad employees working a succession of night and day shifts. The amount of epinephrine and (E) and norepinephrine (NE) on a work day was found to be the same as on a rest day, but there was an increase in the ratio of E, NE, DA (dopamine) to D (dopa) that did not return to normal on the first day of rest. There was an increase in the excretion of NE and increase in the ratio of E and NE to DA and decrease in the ratio of E, NE, and DA to D the night after day work compared with night rest. In general, on the day of rest the amount of catecholamines secreted by the shift workers was lower than that excreted by the control. The blood cholesterol level was higher during a work day than on a rest day.

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