





"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202330007-2 ICPUST FILTER STRATES Acc. Nr: AP0048423 Abstracting Service: Ref. Code: INTERNAT. AEROSPACE ABST 5-70 UR0376 A70-23925 # A mixed problem for the Tricomi equation (Odna smeshannaia zadacha dlia uravnenila Trikomi). Pashkovski (Akademila Nauk SSSR, Institut Matematiki Novosibirsk, USSR). Differentsial'nya Uravnenila, vol. 6, Jan. 1970, p. 200-203. 9 refs. In Russian. Discussion of a problem of the Tricorni equation which differs from the regular Tricomi problem in that not the value of the solution is given on the characteristic of the problem but the sum of the solution and its derivative with respect to the unknown x. The existence and uniqueness of a smooth solution to this mixed problem are proved with the aid of a priori estimates, V.Z. 1.0 REEL/FRAME 21 19800131 

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	No 32, 1970, Soviet Patent i	No 284197, Clas	s 21. filed	sy, Tovarnyye	Znaki,	8
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Incal Distant THURSDAY RESIDENT PASHKUDENKO, V.1. 1 6 [Article by D. S. Bust, V. I. Poshkudcako, I. Kh. Dzhamalazdinov, V<u>V. Klar</u>chenko, Tashkenzi Novonjbirik, 111 Si<u>mnzium jo Proizseaaan Portu i Sinteen</u> Pri uprovodnikovch Kriataliov ( <u>Pienok</u>, Rugsian, 12-11 June 1972, p 21)] ş of epitaxial XV-6. STURY OF THE SURFACE STRUCTURE OF EPITAXIAL SILICUE USING THE PROCL-DURE OF SLOW LLECTRUM DIFFRACELER Ē I TOM is not observed on the 4 the presence The clifering content in the eiliens \* JYXS / using the slow electron diffaction procedure on the (111) surface wish silicon grown in the chloride process, the superstructure of Si presence of thioride. It is charated that its occurrence erises not observed on the silicon surface grown from a mole, including some 3 anbezetstatense condici 59068 5.6-2 322 determined to a significent da-tes with the time of existence of b of the effect of certain crys-b by the spirarial layers of sili-\$ 

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PASHKUDENKO V.P. 1 1 ۰. , • The hydrogen saturated with water when came into the reaction area after to the effect of the substrate reached 1250°C. The substrates were subjected deposition. This permitted the pickling effect of the water with the berinning of and the experiment of free of the water with the berinning of and the experiment of the pickling effect of the water wiper on the substrate the formation of free of the manerature of 1250°C, dissociation of the water wiper the formation of free of the substrate status of the sector of the water with the formation of free of the samerature of 1250°C. fluw rate of approximately 4 liter/min with a molefraction of SiCl<sub>4</sub> in the  $H_2$  equal to 0.005. 3 vera placed on the silicon basehated by high frequency currents. The scaling is a silicon basehated by high frequency currents. The scales chiefled in a vertical quartz resctor, and the quantity of hydrocen, and chiefled utchin the desired limits. The optimal proof torperature than 100 percent. We have performed comparative experiments to obtain the epicarial fills of high purity (cotal admirture content 1.10-7 percent by volve) contribute controllable micromount of veter vapor in the hydrogen. In Elgure 22 we have for batched introduction of water vapor into the hydrogen. The reput prospective and controllable method of strwing epifaxial films of siltern is the reduction of its ternshlorids in the region of the terms auface of the monocrystalline substants of siltern in a hydrogen durface. Although this process is the subject of many papers [1-3], the affect of avec on the electrophysical properties and the provth kiretics of epitaxial siltern films have been studied indequately [5]. In order to investigate the effect of the exyrem on the provib process, special maturation mystem was used (Pigure 23). TURLIN 1.1.1 OF EPITAXIAL STLLCON FILMS WITH THE APPLICATION OF HTOROTEX OF AND THE STUDY OF THEIR PROPERTIES 1.1 ÷ Ŗ, JPRS 59279 (4 June 73 . ¢ . 1 1.1 4 1.1. 4 . 1112 (0) 

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PASHKUDENKO, V.P. Ć A study we made of the Competative kinetics of the Superative kinetics of the Superative kinetics of the Superative kinetics of the Superative vith microduct in bute hydrogen. The temperature such microduct in the series fArticls by V. P. Pashhudanko, V. V. Kharchenko, Tashkent; Kovesibirak, <u>Simpozium po Froteenna Roste i Sinkern Poluprovodnikovykh Eristalicv f</u> Russian, 12-17 Juna, 1972, p 56j crystallimation tate both in the kinetic region and in rate in limited to one degree or shother by the mass to effect of mitrogen is moted for small concentrations of (0.04 Percent) whate the growth rate decrement by 3-2,3 probable mac In the Y-55. EFFECT OF NITROGEN ADMINTURE ON THE GROWTH OF EPITANIAL LAYERS OF SILICOM IN THE CHLORIDE PROCESS Ì uff7u entire tup 140 5005 concentrations, Comperature cratura range. 57208 5-13 he difference he nitrogen adm 56 TTA LA LA . transport ed (10723) injection o regions whe allican te has an effect on the DCess ave linear Tate obtained or algher te the process trachloride A. atrongast extion Plenok, poticanbl rogen 2 ŝ. 9 A des 1413752104

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PASHKUDENKO; V.P penan Te not the establishment of the stationery growth rate takes place more rapidly. it is 5.2 and for Cyct, 5.0 percent it is 1.8. At a high deposition temperature, and the flow rate). The apperimental results show that the growth rate in the initial scarges is higher than under steady-state conditions. The resto of the silican crystallization rates in the first and teach minutes of deposition decreases with an increase in the SiCl concentration, and for  $C_{SiCE}(0,12)$  percent Fets during the growth process. The stillion srowth kinetics in the initial states where this phenomenon is observed were studied in a broad range of crystallization conditions (the deposition temperature, the Sict concentration of the pario conductivity and [Article by 3, 4, Abduralimanor, 4, %, Greysuik, V. P. Pashkudenko, v. v. Kharthanko, Teshkent; Novosibirtk, <u>III Simposium po Protensam Roste i Sinteza</u> <u>Poluprov</u>idnikovykh Kristellov i Plenok, Russian, 12-17 Juna, 1972, p.34] 12.2.2 Q TOUC DE 4 LINETICS OF THE INITIAL GROWTH STACE OF EPITAXIAL LAYERS A study was made of the phenomenon of inconstancy of the silicon deposition wing the krowth process. The silicon arouth kinetics in the initial JPRS Anarrument analysis of the sam phase deposition with respect to therma-ty and with respect to infrared absorption spectra permitted estimation 59263 6.23 ohut-off an minture composition in on the crystallisation the inicial stages Un the X 

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STREET STREET PASHKUDENKO, antimony. In this case the process rate is described by a first order equation  $V = K \cdot C_{SICL}^{4}$ . The temperature functions were obtained for the process rate of the values of the values obtained for the process rate of  $V_{A}/V_{A}$ . A fudy was made of the growth kinetics of silicon in the region of antisans. In the region of antisans. In the region of 0 (kinetic conditions) coincide and are equal to 7.5'10<sup>2</sup> cm<sup>4</sup>/mole-sec and 12 Koni/hole respectively. The process machaniam and the relation between the "true" and "upparant" activation emergies are discussed.  $k = k_0 e^{-\Delta E/RT}$ . The values of  $K_0$  and  $\Delta E$  for linear flow rates exceeding 3 cm/eec of the process rate with invariant concentration of the components in the reaction apace. In this case even for simple reactions it is possible to obtain only the values of the "apparent" activation smargy. The apacitic function Z p and the components in the reaction of the components in the reaction of the components in the reaction will be components in the reaction of the reaction of the components in the reaction of the reacting of the reaction of the reaction of the re used the expression (3 in  $\gamma/32)_{F_{\lambda}}$  ,  $P_{\lambda}$  , that is, they investigated the variation Ecrum follows from the form of the kinetic equation, the mature of its constants and the reaction mechanism. In practice finding the equation of the investigated Here, where the process of hydrogen reduction of SiCl . For its calculation they are the solivation of SiCl . For its calculation they are the solivation the solivation of t [Article by V. V. Kharchenko, V. P. Pashkudenko, Tashkant; Movoaibirak, ili <u>Simpokum po Protessum Rozia i Thirren Poluprovodnikovykh Kristaliou i Piemok</u>, Russian, 12-17 June, 1977. p <u>SS</u>] Y-5a. A ACTIVATION ENERGY OF THE PROCESS OF REDUCING SILICON FETRACHLORIDE BY SPRS 6.3 54208 ÷. ١, ۲ ۲ Ŀ 

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122-12-11-2 PASHKUDENKO, V. P. € growth With an increase in the growth rate the diffusion coefficients of both Europeanure of 1.260°C, the variation takes place in the remain of 5-10-12 to  $10^{-10}$  cm /sec for phosphorus and  $3 \cdot 10^{-12}$  to  $10^{-2}$  cm /sec for antimomy. satisfactorily described by diffusion equations with effective diffusion co-the diffusion coefficient in single conditions. The relations between pend usentially on the temperature, the proven rate and proven time. The growth procease temperature and the concentration of alligony betrachiaride vere varied. The distribution profiles of the antimony and phosphares can be [Article by A.-S.\_lrucovich, Z.\_Kh, Khodihahimidov, V.\_P. Pashludenko, T. V. Biarchanko, H. R. Grevnuth, Sh. Sh. Shraiidav, Tanhanii Sounaikirko, T. V. Simpalan po Froisukam Rista 1 Strikiza Tollyrovodnikovych Kilatailav 1 Planok Russian, 12-17 June 1972, p 128] layers of ailieon as a function of the growth conditions. The opicarial layers ware drained by the method of hydrogen reduction of milleon retrachleride. X-JA, EFFECT OF THE CRYSTALLIZATION CONDITIONS ON THE TRANSFER OF THOSPHOLIS AND ANTIMONY INTUNITIES FROM THE SUBSTRATES INTO THE EPITANIAL LAYERS OF Jo aper The values found for the diffusion coefficients as a function of the conditions of the layars can exceed the values known for single crys-They can be equal and have smaller values. With the application of a layered; radioactive analysis, studies were f the distribution profiles of antinony and physychonus in epitasia, studies were SZIN'SS 59-06 6.23 132 ŧ ņ 

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1944 Manaka, Taking Manaka 12511281 PASHKUDENKO, Y.P. phase on the alloying level of the optimical layer. In the case of the com-plateau is in practice districte in the ras phase in some samples the additure concentration is noted in the thin surface layer. This is observed file to readon 2 is described satisfactorily by the diffusion sets in the effective conclusion of values of which under verious effusion sets that the setsellarist bickness of the optimized layers defined expansion by the packing of which was essured in the bits the layers defined expansion of the formation of the profiles will be doubtful in connection with the fact that the metallurgical bickness of the epitaxial layers defined expandence by the packing of which was essured in the calculations. The contribution of the diffusion and strateging whences to the distribution profile of the sconentration of N/1 which was essured in the calculations. The contribution ų, consistential is nonullars. Repeating on the growth conditions, the ratio of the extent of these metions varies. By using the contentrations of the store of the errors of the store of the cross of the store of th demons treet that the admixture profile in the investigated characterized by the presence of two sections: 1 -- the section (the placeau), 2 -- the section is a section in the section is the section in the section is tration ranks of Sick, and alloying components. The alloying admittures were tion, the procedure of layered neutr introduced into the system is the form of chlorides from a separate source. In order to determine the distribution profiles of the edmixture contentrathe contribution of the growth (a) the final distribution of the {Article by A. S. Lyutovich, V. P Pashkudenko, V. V. Kharchenko, E. Kh. Khodiba-khmedov. Sh. Sh. Sh. Shoaidov, Tankket, Novostbirsk: <u>111 Simpotium po Provensee</u> Rotta 1 Sinieza Polupzivodnikevykh Kristallov i Planni, Runalan 13-12 Juna 1972 X-3b. STUDY OF THE DISTRIBUTION OF ALLOYING ADMINTURES IN EPITAXIAL LAYERS OF Silicon with the application of radioactive analysis rarious chesical y the final distribution of the admixtures. The epitaxial layars of silicon are obtained by the mathod of hydrogen reduction of Sick in a broad concent エンパ The idea of this experiment consisted in using alloying admixtures becaused using alloying admixtures 5003 ç Ç - 133 -"Activated analysis was used." TE was It i we the section with uniform the section where the shakkture abocimons (s concent raton process utes of 4 

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INCOMPANY AND A DESCRIPTION OF PASH KUDENKO, V.P. ()of epitaxial of statistical data, the conditions of different types are defined. The equivalent [Aretcto iv <u>5] R</u> Boyko, V. P. Fashkudenko, V. V. Klarchenko, Tashkent: Novogl-birek, 111 <u>Slupozium ng Protesasan Rosta 1 Sincers Poluvrevođstkovyh Kristal-</u> lov <u>( Plennk</u>, Russian, 12-17 June 1972, p 105) croady in the Sicry in an atmosphere (1.000-1,310° C) and g cent types of a crodefects, their density, Rions of XIV-3. REFLAY OF CRYSTALLIZATION CONDITIONS ON THE MORPHOLICY OF LPHIAXIAL LAVERS OF SILICON hear ñ acing ensentially ...... by volume); concentration with respect to layers are as The entrained layers of silicen were obtained by the method of reducing accelerated growth --JUES to increase defect Diagram. Region of occurrence of holes, pyramids (II) and tripyramids (III) C) and si crodefects is Kayı depends on the crystallizat The 10110 59208 beit morphological characteristics of the surface of allower the regions of research the surface of 1. Ku 1. temporature, "C 2. concontration of SiCl<sub>4</sub>, I by volume 181 6-73 5 20 28 (2) Kongenmpagun Silling 1000 concentration ā connected the rept. pyramids - 200 effect on the morphol 12at inn their B the predorinant occurrence of defects data are presented in the diagram. The d with the mechanism of crystallization 2014 and tripyramids, fange in the In the basis of the strat abount of retarded isnitude and crystallerraphic the conditions. Decreasing the the morphology of the lavers is - 65 ā growth trungfature range Alonet --Presence liples and reof certain W 1 (1 )

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of Or	K, V. S., SHVETSOV, YU. S., and PASHKUROV, N. G., Institute ganic and Physical Chemistry imeni A. E. Arbuzov, Academy of ces USSR	•
Comm	hesis and Properties of Pyrimidinylalkylphosphenic Acids. nication 5. The Synthesis of $\beta$ -(0xopyrimidinyl-N)-Ethyl- honic Acids"	
Mosco 1973 Abst: $\beta - (c)$ $(\beta - c)$ meth bis- by t at 1 midi addi dime	<pre>w, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 2, pp 402-406 vact: Several methods were investigated for the synthesis of propyrimidinyl-N)-ethylphosphonic acids. The reaction of 3- chloroethyl)-6-methyluracil with triethyl phosphite (I) at chloroethyl)-6-methyluracil with triethyl phosphite (I) at shloroethyl)-6-methyluracil with triethyl phosphite (I) at shloroethyl)-6-methyluracil with triethyl phosphoric acid. 1,3- chloroethyl)-6-methylli-6-methyluracil was synthesized for (diethylphosphono)-ethyl]-6-methyluracil was synthesized be reaction of I with 1,3-bis-(β-chloroethyl)-6-methyluracil be reaction of 5.5 g of p-toluenesulfonyl chloride to 5 g of 3,6- bion of 5.5 g of p-toluenesulfonyl chloride to 5 g of 3,6- bion of 5.5 g of p-toluenesulfonyl in 12 g of triethylamine, with thyl-1-(β-hydrooxyethyl)uracil in 12 g of triethylamine</pre>	
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USSR REZNIK, V. S., et al., Izvestiya Akademii Nauk SSR, Seriya Khimicheskaya, No 2, 1973, pp 402-406 the temperature not exceeding  $40^{\circ}$ . 2.2 g of II were obtained, with a m.p. of 153.5-155.5° (from benzene). The dibutyl ester of B-(3,6-dimethyl-2,4-dioxo-1,2,3,4-tetrahydropyrimidinyl-1-N)ethylphosphonic acid (III) was obtained in a 36% yield by the addition of II to Na dissolved indibutyl phosphite, and boiling. III is a bright-yellow oily solution highly soluble in benzene and CCl<sub>A</sub>  $(n_D^{20} 1.4895; \text{ IF spectrum } (\nu, \text{ cm}^{-1}): 1,675, 1703 (C=0), 1270$ (P=0), 1000, 1025 (P-0-C)). The formation of III indicates that the presence of a tautomeric OH group in  $3-(\beta - hydroxyethy1) - or 3-(\beta - \beta)$ chloroethyl)-6-methyluracil on the 2 position of the pyrimidine ring makes possible the closure of the 5-membered oxazole ring. For the formation of 4-oxopyrimidinyl-N-ethylphosphonic acids, studies were undertaken on the reaction of the tosylate of  $3-(\beta-\beta)$ hydroxyethyl)-6-methyluracil (IV) and 2-amino-3-( $\beta$ -hydroxyethyl)-4-oxo-6-methyl, 3, 4-dihydrooyrimidine (V) and with triphenyl phosphite (VI). The reaction of IV with VI proceeds at 230-240° with a 51% yield of  $\beta$ -(2-oxy-4-oxo-6-methyl-3,4-dihydropyrimidinyl-3)ethylphosphonic acid (amorphous powder, insoluble in alcohol, highly soluble in water; IF spectrum ( $\nu$ , cm<sup>-1</sup>): 930+1250, maximum 2/3- 44 -

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USSR REZNIK, V. S., et al., Izvestiya Akademii Nauk SSR, Seriya Khimicheskaya, No 2, 1973, pp 402-406 at 1215, 2250-3600 (diffuse, P-OH and N-H), 1660 and 1715 (C=O)). The reaction of V and VI commences at 160° and attains  $230^{\circ}$  and results in a yield of 42% of  $\beta$ -(2-amino-4-oxo-6-methyl-3, 4-dihydropyrimidiny1-3)ethylphosphonic acid (amorphous substance, soluble in water but not alcohols; IF spectrum ( $\nu$ , cm<sup>-1</sup>): 1080, 1175, 1230, and diffuse absorption at 2300-3500), and a 36% yield of 2,3,4,5tetrahydro-5-oxo-7-methylimidazolo [3,2a]pyrimidine (VII). The formation of VII was attributed to an attack of the amino group of the pyrimidine ring on the  $\beta$ -carbon atom, whose electrophilic properties were enhanced by the inductive effect of the oxyphosphoryl group. VII is a crystalline substance, highly soluble in water and moderately in hot n-butanol, and insoluble in acctone. IF studies of VII showed that  $\gamma_{\rm N-H}$  appeared at 3060-3125 cm<sup>-1</sup>, and  $\gamma_{\rm C=0}$  at 1670 cm<sup>-1</sup>. The reaction of VI with 1,3-bis-( $\beta$ -oxyethyl)-6-methyluracil at 160-165°, following hydrolysis, gave a 33% yield of 1,3bis-(B-phosphonoethyl)-6-methyluracil and a 21% yield of 1,3-bis-(B-phenoxyethyl)-6-methyluracil. 3/3 

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USSR UDC 547.26'118 + 547.854.1 REZNIK, V. S., and PASHKUROV, N. G., Kazan' Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, USSR Academy of Sciences "Interaction of the Chloralkyl Esters of the Phosphorus Acids With Salts of Oxypyrimidines" Leningrad, Zhurnal Obshchey Khimii, Vol 41, No 11, Nov 1971, pp 2,441-2,446 Abstract: As the authors demonstrated in 1967, the reactions between  $N(\beta$ hydroxyalkyl)pyrimidines, which have basic properties, and the phosphorus acid chlorides, are unsatisfactory in that many of them will not yield the corresponding phosphorus acid esters. This prompted a search for a new means of synthesizing these esters, some of which had never been obtained before. Sodium 2-hydroxy-4,6-dimethylpyrimidine reacted with tris-(ß-chloroethyl) phosphate and 1,2-dichloroethane, thus producing 1,2-bis(2'-oxo-4',6'-dimethyldihydropyrimidinyl-N)ethane and 1,2-bis(2'-oxo-4',6'-dimethyldihydropyrimidiny1-N)ethane. Sodium 2-amino-4-hydroxy-6-methylpyrimidine reacted with hexyl ( $\alpha$ -chloropropyleneglycol) phosphite, producing 2-amino-3-( $\beta$ ,  $\gamma$ dihydroxypropyl)-6-methyl-3,4-dihydropyrimidone-4. Sodium 6-methyluracil reacted with  $\omega$ -chlorohexyl ester of methylphosphonic acid, producing  $\omega$ -(2,4-dioxo-6-methyl-1,2,3,4-tetrahydropyrimidinyl-3)hexyl ester of bischloromethylphosphinic acid. Physico-chemical constants and procedural details are given. 1/1 

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USSR UDC 542.91.661.718.1 RESNIK, V. S., and PASHKUROV, N. G., Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Academy of Sciences USSR "Some Phosphorus-Containing Esters of N-Hydroxyalkylpyrimidones" Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 9, Sep 71, Abstract: The article describes the synthesis of pyrimidone derivatives containing a C-O-P bond in the N-alkyl side chain. The reaction of N-hydroxyalky1-6-methyluracils with alkyl(aryl)phosphoric and phosphinic acid chlorides proceeds in different ways, depending on the reaction conditions and the number of chlorine atoms in the acid chloride, Best results are obtained in the reaction of  $3-N-(\beta-hydroxyethyl)-6-methyluracils with phosphorus acid$ chlorides in an inert solvent (dioxane is best) in the presence of an equimolar quantity of pyridine at 30-60. It was not possible to find a convenient method for the synthesis of esters of phosphorus acids and 2-amino-3-(hydroxyalkyl)-6-methyl-3,4-dihydro-4-pyrimidones. 1/1 - 53.-

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PASHUN,	A. D.				
	<b>NOTICE</b> The contents of this publication have been translated as presented in the original teat. Na attempt has been made to verify the accuracy of any statement contained herein. This translation is published with a minimum of copy editing and graphics proparation in order document the distribution of information. Requests for additional expite of the Springfield, Virginia 22151. Approved for public release; distribution unlimited.	Translated for FSTC by Leo Kannor Americates	<pre>FOREIGH IIILE: Nemotoryys Electrichesidys I Termoslektrichesidys AUTHORI Vorteeinhorally, A. V. Parhum. A. D. SOURCE: Investive Vyschich Uchebuyth Eavedenly - Fisike No. 5 (96), 1970, pp 153-155</pre>	TECHNICAL TRANSLATION FUTC-HI-23- 1583-71 ENCLISH FILLE: Some Electrical and Thermal Electrical Properties of Gales - Col solid solutions	



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POMIE TOT TOT USSR PASIKA, L. I., et al., Probl. sistemotekhniki. Vyp. 1, Sudostroyeniye, 1972, 5) the group of servicing operators (symbol-by-symbol processing of the annotation, editing, symbol-by-symbol processing of the sentence). Examples of algorithmization and programming problems in the standard operator system are presented. The bibliography has 3 entries. 2/2 - 62 -1.1

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AUTHORPASKAL, YU.I.				
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PROCESSING DATE--160CT70 UNCLASSIFIED 2/2 026 CIRC ACCESSION NO--AP0105159 ABSTRACT/EXTRACT-- (U) GP-O- ABSTRACT . AN ANAL. IS GIVEN OF OSME OF THE POSTULATES OF THE LANDAU THERMODYNAMIC THEORY OF ORDERING. FACILITY: TOMSK. GOS. UNIV., TOMSK, USSR. 

OVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202330007-2
UNCLASSIFIED PROCESSING DATE 300CT70 SIS OF THE GORSKII BRAGG WILLIAMS MODEL. 1. TRANSITION ORDER. ITY BOUNDARIES -U- PASKAL, YU.I., VALOVSKAYA, L.I.
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VYSSH. UCHEB. ZAVED., FIZ. 1970, 13(1), 101-7
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NGNO RESTRICTIONS
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<pre>1/2 026 UNCLASSIFIED PROCESSING DATE11SEP70 TITLEANALYSIS DF THE GORSKY BRAGG WILLIAMS MODEL -U- AUTHORPASKAL, YU.I., PUGACHEVAVALOVSKAYA, L.I. COUNTRY OF INFOUSSR SOURCEUKR. FIZ. ZH. (RUSS. ED.) 1970, 15(1), 143-5 DATE PUBLISHED70 SUBJECT AREASPHYSICS TOPIC TAGSORDERED ALLOY, BINARY ALLOY, THERMODYNAMIC ANALYSIS, HEAT OF FORMATION, ENTROPY, FREE ENERGY, MATHEMATIC MODEL CONTROL MARKINGNO RESTRICTIONS DOCUMENT CLASSUNCLASSIFIED PROXY RFEL/FRAME1989/1339 STEP NOUR/0135/70/015/001/0143/0145 CIRC ACCESSION NOAP0107812</pre>	sana sana sana sana na kana sana ka	80 18 71 18 71 18 71 72 19 19 19 19 19 19 19 19 19 19 19 19 19		is sinipashasi it gushar syishe Is shinasha i si tanu kanak	
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PROCESSING DATE--11SEP70 UNCLASSIFIED 2/2 026 CIRC ACCESSION NO--AP0107812 ENERGY AND ENTROPY OF MIXING IN A BINARY ORDERED SOLN. WITH TWO TYPES OF -NODES, WITHIN THE FRAME OF THE GORSKY BRAGG WILLIAMS MODEL, IS OBTAINED. SA FORMAL EXTENSION OF THIS MODEL IS PROPOSED AND, ON THE BASIS OF THE THERMODYNAMIC THEORY OF ORDERING, A POSSIBLE TYPE OF FREE ENERGY DEPENDENCE ON THE ORDER DEGREE, IS DETD. AN ANAL. OF THE FORMALLY ENLARGED MODEL PREDICTIONS, REGARDING THE KIND OF THE ORDER DISORDER TRANSITION IS MADE. Sec. 2. . . . HART ACCIETEN

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PASKALENKO, A. A. and					·	
"The Problem of an E] Deformable Base"	lastic Semi-Ini	Einite Cover	Plate Couple	d to a Line	early	
Moscow, Mekhanika Tve	erdogo Tela. No	3. Mav-Jum	73. nn 79-86			
			PF 15 00			
Abstract: An exact s semi-infinite cover p by various means. An deformable base of th form of a half-plane with a power law. A p given, l table. 11	olution of the late coupled t exact solutio e general type with a modulus numerical real	contact prof o an elastic n of this pro and, in part of elasticit	blem concern half-plane h oblem is give ticular, for	ing an elas las been ob en for a li a base in	tained nearly the damage	
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CIA-RDP86-00513R002202330007-2

이 서는 것이다. WC 539.384 USSR PASKALENKO, A. A., (Odessa) "Two-Dimensional Problem on Flexure of Semi-Infinite Beam on a Linearly Deformable Support" Moscow, Prikladnaya Matematika i Mekhanika, Vol 36, No 1, 1971, pp 94-105 Abstract: An exact solution of a problem on flexure of a semi- infinite beam supported by an elastic, inhomogeneous semi-space, with variable in depth modulus of elasticity  $E = E z^{V}$  ( $0 \le v \le i$ ) has been obtained. A numerical solution of this problem applied to the case of a beam loaded at its end with a force or a moment is presented and the results are given in tabular form. An unexpected increase, with respect to absolute value, of the maximum reduced bending moment with the support stiffness parameter v, is revealed. The results show that the maximum positive (extended lower fiber) reduced moment decreases with increasing v, while the maximum, with respect to absolute value negative moment, increases. 1/1 ....<u>96</u>.... THE REPORT OF THE REAL PROPERTY OF THE REAL PROPERT 

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002202330007-2

UDC 616.988.73-022.39:598.4 USSR KAMENOV, Ye. K., NIKOLOV, Z. V., NEDELCHEVA, S. B., MATEVA-STOYEVA, Yel. V., NEDELCHEVA, N. P., PASKALEVA Mun G., DENCHEV, St. I., and TURLAKOV, I. G., Chair of Epidemiology, Institute for Specialization and Advanced Training of Physicians, Republic Antiepidemic Station, and Zoological Institute and Museum of the Bulgarian Academy of Sciences, Sofia, Bulgaria "Aquatic and Swamp Birds -- Carriers of Agents of Infectious Diseases. Communication I: Ornithosis" Moscow, Voprosy Virusologii, No 4, Jul/Aug 71, pp 437-441 Abstract: Since Bulgaria lies along one important flight route of migrant aquatic and swamp foul, a serological invostigation was performed on 350 wild birds caught along Bulgaria's Black Sea shore and Danube River. Specific antibodies against ornithosis were found in specimens belonging to the orders Ardiiformes, Podicipidiformes, Lariformes, Ralliformes, and Charadriiformes. In some areas densely populated by wild ducks, antibodies against ornithosis virus were found in 21.85 of wild ducks, in 44.7% of domestic ducks on neighboring farms, and in 54.5% of people. These findings support the previously advanced hypothesis that migrating aquatic and swamp birds play an important role in the epidemiology ernithesis in natural foci and in the transmission of this disease to domestic foul and to humans ... 1/1 

APPROVED FOR RELEASE: 08/09/2001

	CLASSIFIED	PROCES	SING DATE		
1/2 009 TITLE-VERKHOYAN'E ROCK CRYSTAL		1.000.0			
AUTHOR- (02)-KRYATOV, B.M PASK	EVICH, G.P.	and the second			
COUNTRY OF INFO-USSR		Frightimunate			
SOURCE-PRIRODA (MOSCOW) 1970,	(2), 104-5	<b>(</b>	:		
DATE PUBLISHED70			: :		
SUBJECT AREAS-EARTH SCIENCES		and the second	•	: · · ·	
TOPIC TAGS-QUARTZ CRYSTAL, PIE	ZOELECTRIC PR	OPERTY, GEOL	OGIC FORM	ATION	
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CONTROL MARKINGNO RESTRICTION	4 <b>S</b>			· · ·	
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2/2 009 CIRC ACCESSION NO		CLASSIFIED	PROCESSING	DATE-300CT70	
ABSTRACT/EXTRACT-	-{U} GP-O- AB (SIBERIA), LA	STRACT. IN THE RGE QUARTZ CRYST	CENTRAL REGION	5 OF THE STALS") ARE	
FOUND, IMPORTAN	T IN ELECTRONI	C APPLICATIONS,	OWING TO THEIR	PIEZOELEC.	
		E FORMED DURING EA IN THIS AREA,			۰,
		TZ VEINS, OFTEN Rystals, because			
RELATIVELY HIGH	TEMPS., WHERE	AS THE FORMATION	OF ROCK CRYSTA	LS REQUIRES	
TEMPS. SMALLER	THAN 100-200DE	GREES.			
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, UDC: 621.372.061	
USSR USSR	
PASKALOV, A. I., TIMOFEYEV, Yu. A.	
"Results of Investigations of the Process of Self-Cophasing of a FCIIOW-up Filter Circuit"	
V sb. Metody pomekhoustoychivogo priyema ChM i FM (Methods of Interference- -Free FM and PM Receptioncollection of works), Moscow, "Sov. radio", 1970, pp. 97-101 (from RZh-Radiotekhnika, No 12, Dec 70, Abstract No 12A149)	\$
Translation: The authors describe the process of self-cophasing of a follow- -up filter in the case of locking on a wide-band FM signal. The method of mathematical modeling is singled out as the principal method which is appli-	م الله الله الله الله الله الله الله الل
conditions and idealizations inder indeal and its characteristics are given as follow-up filter circuit is described and its characteristics are given as well as standard oscillograms of signals demodulated by the circuit. In all well as standard oscillograms of signals demodulated by the circuit. In all cases where the passband of the equivalent frequency response was 3-6 times	
as great as that of the follow-up filter and the level of the incuit was the input of the circuit was higher than the limit threshold, the circuit was reliably self-cophased. Resume.	
1/1	

CIA-RDP86-00513R002202330007-2

UDC 547.963.3:577.391 USSR PASKEVICH, I. F., Institute of Medical Radiology, Kharkov "Matrix Activity of Deoxyribonucleoproteins of Chromatin from Organs of Irradiated Animals" Moscow, Doklady Akademii Nauk SSR, No 5, 1973, pp 1223-1226 Abstract: Experiments were performed on rats to elucidate the mechanism of postradiation repair of DNA and DNP in relation to the dose and time after exposure. DNPO, DNPO.6, DNP2.0, and DNA isolated from rat liver and spleen were used as matrices for RNA synthesis. The matrix activity of  $DNP_0$  and  $DNP_{0.6}$  increased significantly in the liver 24 and 48 hours after irradiation at 800 r while the level of RNA synthesis with DNP 2.0 and DNK used as matrices was the same as the control. However, 120 hours after irradiation RNA synthesis markedly decreased. In the spleen, RMA synthesis decreased in the DNP and DNA matrices at all the observation times. Matrix activity of DNP fractions from the liver increased 24 and 48 hours after irradiation regardless of the dose, but the magnitude of the changes were clearly dose-related. 1/2

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PASKEVICH, I. F., I	Doklady Akademi	i Nauk S	SR, No 5,	1973, pp	1223-12		
The level of RNA sy decreased sharply of close to the control synthesis was also a lethal dose cause both spleen and liv	compared to the ol when nonleth restored in th ed a progressiv ver. restoratio	e control e control e declin n of the	blethal d l after d	loses were loses of 4	used. CO and 6 ty of DN	RNA OO r, but P. In	
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TITLERNA SYNTHESIS IN RAT L RADIATION INJURY -U-		N IN THE EAR	LY STAGES	OFACUTE	
AUTHOR-(04)-PASKEVICH, I.F., V.I. COUNTRY OF INFOUSSR	VASILYEVA, YE.	S., TODOROV,	I.N., SH	ANTYR,	
SOURCERADIOBIOLOGIYA 1970,	10(1), 19-24				
DATE PUBLISHED70				· ·	- <b>y</b>
SUBJECT AREASBIOLOGICAL AND	MEDICAL SCIEN	CES			
TOPIC TAGSX RAY RADIATION B LIVER, SPLEEN, PHOSPHORUS I	IOLOGIC EFFECT Sotope, Chemic,	, RADIATION AL LABELLING	DOSAGE, R)	AT, RNA,	
CONTROL MARKINGNO RESTRICTI	ONS				
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CIA-RDP86-00513R002202330007-2

PROCESSING DATE-- 300CT70 UNCLASSIFIED 029 212 CIRC ACCESSION NO--AP0121126 ABSTRACT/EXTRACT-- (U) GP-0- ABSTRACT. RNA SYNTHESIS IN RAT LIVER AND SPLEEN WAS DETD. 2, 12, AND 24 HR AFTER WHOLE BODY X IRRADN. WITH A DOSE OF 800 R (197 KV, 10 MA, FILTER 0.5 MM CU PLUS 1 MM AL, FOCUS DISTANCE 40 CH, DOSE RATE 26.5 R-MIN). NA SUB2 H PRIME32 PO SUB4 WAS INJECTED INTO RATS 1 HR BEFORE KILLING THE ANIMALS. RNA WAS EXTD. FROM HOMOGENIZED LIVER AND SPLEEN BY A THERMAL PHENOL METHOD IN TEMP. INTERVALS OF 0-10DEGREES, 45-55DEGREES, 45-65DEGREES, AND 55-65DEGREES. THE RADIDACTIVITY OF RNA PREPNS. WAS MEASURED BY LIG. SCINTILLATION TECHNIQUES. AN ACITVATION OF RNA BIOSYNTHESIS IN THE LIVER AND AN INHIBITION IN THE SPLEEN WERE OBSD. IN THE EARLY STAGES OF ACUTE RADIATION INJURY, ESP. 2 HR AFTER IRRADN.; A TENDENCY TO NORMALIZATION FACILITY: NAUCH.-ISSLED. OCCURRED IN THE LATER TIME INTERVALS. INST. MED. RADIOL .. MOSCOW, USSR. HELL ASSIFIED 

APPROVED FOR RELEASE: 08/09/2001

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	NCLASSIFIED PROCESSING DATE300CT D TYPES OF FABRICS MADE FROM POLYURETHANE LANAS, V., PASKEVICIUS, V.	ro
COUNTRY OF INFO-USSR		
SOURCE-KHI. VOLOKNA 1970, {2},	, 65-7	
DATE PUBLISHED70		
SUBJECT AREASMATERIALS		
TOPIC TAGS-FABRIC, ELASTOMER, Acetate, Nylon, Clothing, Dye	POLYURETHANE RESIN, CELLULOSE RESIN,	
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2/2 018 LIRC ACCESSION NOAP0124487	UNCLASSIFIE	D	PROCESS	SING DATE-		
ABSTRACT/EXTRACT(U) GP-O- DESCRIBED OF ELASTIC CORDS WINDINGS, THE INNER TYPICA NYLON 6 THREADS. SUCH COR ESP. SUITABLE FOR THE MANU SPECIALITY SPORT CLOTHES.	ABSTRACT. CONSISTING LLY OF CELLU DS CAN BE DY F. OF SWIM S	OF A POLY LOSE ACE ED BY US UITS: WO	YURETHANE TATE AND ING SID. Hen's: Und	E CORE ANI THE OUTER EQUIPMENT DERGARMENT	D 2 R OF F AND ARE TSI AND	
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	Lasers / Masers
- T	UDC 621.373:530.145.6
	GUREVICH, G. L., PASKHIN, V. M.
	"Steady State Conditions of Mode Synchronization in a Laser with a Saturable Absorber"
<b>(</b> 1	Gor'kiy, <u>Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika</u> , Vol XV, No 2, 1972, pp 221-226
	Abstract: It has been demonstrated previously [G. L. Gurevich, <u>Izv. vyssh. uch</u> . zav., <u>Radiofizika</u> , Vol 13, No 7, 1019, 1970; G. L. Gurevich, et al., <u>ZhTF</u> , Vol 40, No 12, 1566, 1970] that instability in the intermode beat frequencies
- 1 - C	usually occurs for smaller amounts of absorber than required for instability of slow modulations. Thus, the development of instability in the intermode beat frequencies leads to the establishment of periodic conditions with a
. 1	characteristic modulation time less than or on the order of $L/c$ (L is the length of the resonator, c is the speed of light) which can be interpreted as
. F	the mode synchronization conditions. The basic characteristics of these periodic conditions are determined here. There is a simple correspondence be- tween the form of the radiation in the steady state mode synchronization con-
t	ditions and the known solution of the single-mode problem. The dependence of the amplitude and shape of the pulses on the amount of absorber is defined. Correspondence of the forms of the single mode and multimode solutions is

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USSR GUREVICH, G. L., et al., Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, Vol XV, No 2, 1972, pp 221-226 correct also for a saturable absorber for which the inertia is significant. Actually, the shape of the radiation pulses is determined by the generating solution which, in turn, depends on an arbitrary constant - the pulse ampli-The absorber characteristics only affect this amplitude. Therefore, tude. for identical amplitude, the pulses in a laser both with an inertia and an inertialess absorber have identical duration. The inertia of the saturable absorber is felt only in the abount of the absorber required to obtain pulses of the given amplitude. 2/2 

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PASKHTN	YE. N. and ZHO	GOLEV, YE. A.				
"Concre Languag	te Representation e on BENS-6"	of Internal SIMP	R [Modular	Programming Sys	stem]	
Sb. rab	ot Vychisl. tsent	ra Mosk. un-ta (C	ollection o	f Works of Com om BKh_Materiat	puter Center ika. No 5.	
of Mosc	ow University), 1	.971, vyp. 17, pp	149-192 (11		<u></u> ,, ,,	
May 72,	Abstract No 5V52	· /				
May 72,	tion. The entiel	e describes the c	oncrete rep	resentation of	the Internal	
May 72, Transla	tion: The articl	e describes the c	line authors	give the repr	spencerion or	
May 72, Transla SIMPR I the bas	tion: The articl anguage for the E ic Internal Langu	e describes the c ESM-6 computer. ange symbols used	in the dete a. A roy o	give the repro rmination of re f the descript:	ows of ion table	
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Center at Moscow Univers netika, No 5, May 72, Ab	sity), 19(1, vyp. 17, 1 street No 5V521)	pp 149-153 (fr	om <u>RZh-Kiber</u>	-	
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Franslation: The paper	describes the specific	c representati	on of the in	ternal	
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NESTEROVA, N. V., PASKINA, L. P., and PEREPELKIN, V. P., All- Union Scientific Research Institute of Medical Polymers, Moscow	
"Polymer Coatings for the Treatment of Wounds and Burns (Survey of the Literature)"	
Moscow, Knimiko-Farmatsevticheskiy Zhurnal, Vol 4, No 11, Nov 70, pp 5-11	4
Abstract: The article describes the state-of-the-art in the de- velopment of polymer coatings for the treatment of wounds and burns in the USSR and abroad. A survey of the literature indi- cates the following two basic trends:	
1. Finished coatings, i. e. coatings preformed as film or foam. Film-type and especially foam-type synthetic finished poly-	
mer coatings have significant advantages ofthe wound surface. Fin- mainly because of the lack of adhesion to the wound surface. Fin- ished polymer coatings also include biological films, such as the fibrin films suggested by A. N. FILATOV. The use of all finished	

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NESTEROVA, N. V., et al., Khimiko-Farmatsevticheskiy Zhurnal, Vol 4, No 11, Nov 70, pp 5-11	
coatings necessitates secondary fixing dressings, which limits their potential applications.	
2. Film-forming composites. Foreign companies working on the problem of creating liquid dressings include Aktibolaget Bofors (Sweden) and Johnson and Johnson (U.S.). Interesting work has been done in the last few years in Hungary, Czechoslovakia,	\$
West Germany and other countries. Of this group of preparations, collodion and cleol are widely known in the USSR. However, ccat- ings obtained with the use of these preparations possess low skin adhesion and are insufficiently elastic. In 1959 the Pharmaco-	5
Furaplast based on chlorinated polyvinyl chloride resin with a Furaplast based on chlorinated polyvinyl chloride resin with a Compos-	
 ites based on chlorinated polyvinyl chloride resin dissolved in butyl acetate (solution No. 1) and polyvinyl butyral dissolved in ethyl alcohol (solution No. 2) have been suggested. Methylene	
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USSR NESTEROVA, N. V., et al., Khimiko-Farmatsevticheskiy Zhurnal, Vol 4, No 11, Nov 70, pp 5-11 wound (burn), and such coatings possess negligible moisture permeability. These shortcomings make it impossible to use such lacquer compositions for the closing of wounds and burns. The foreign literature contains reports to the same effect. The search for dressings possessing high file-forming properties and skin admesion combined with painlessness of application has led to aqueous film-forming compositions. The All-Union Scientific Research Institute of Medical Polymers has done research on film-forming compositions based on water dispersions of polymers and aqueous solutions of polymers. Animal (rabbit) experiments have shown that latex BK is fast-setting on a dried wound surface and retains good adhesion during healing. However, when latex is applied to a burn surface under liberal exudation, it has been found that the low moisture permeability of the latex film prevents conditions for the runoff of the The liquid being released accumulates under the film, exudate. 445 

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USSR NESTEROVA, N. V., et al., Khimiko-Farmatsevticheskiy Zhurnal, Vol 4, No 11, Nov 70, pp 5-11 which rules out the possibility of using latex films as liquid surgical dressings. Little information exists on aqueous solutions of film-forming polymer compositions. The film formation in such polymers is based on the self-elimination of water (evaporation) by analogy with film formation based on lachuer solu-tions of polymers. This stretches out the process of the formation of a protective film. The All-Union Scientific Research Institute of Medical Polymers has developed a composition based on alginic acid salts. Animal experiments have snown that algin-ate compositions do not cause pain and form on a wound surface a coating which coalesces in 24 hours with live tissue and remains until complete epithelization and gives good protection to the wound and young epidermis. The general healing pattern under an alginate film indicates that alginate films have the same effect as biological plates, while possessing distinct advantages over the latter. 5/5 

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COUNTRY OF INFOUSSR	HIMIT, 1970, VOL 16, NR 2, 9P 152-161
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PROCESSING DATE--11GEPTO, UNCLASSIFIED 2/2 024 CIRC ACCESSION NO--AP0102730 ACTIVITY AND CONTENT OF BASIC ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. COMPONENTS OF KININ SYSTEM KININOGEN, KALLIKREIN, KININASE AND IOTAL BAEE ESTERASE AND ANTITRYPTIC ACTIVITY IN BLOOD SERUM OF 30 HEALTHY HEN AND 17 PATIENTS WITH RHEUMATISM HAS BEEN STUDIED. THE ACTIVITY OF KALLIKREIN IN BLOOD SERUM WAS DETERMINED BY MEANS OF OPIGINAL CHROMATOGRAPHIC METHOD AND WAS AMOUNTED TO 30 PLUS OR MINUS 9 MKE-4L IN THE CONTROL, I. E. 6,9 PLUS OP MINUS 1, 7PERCENT FROM TOTAL BASE ESTERASE THE ACTIVITY OF THIS ENZYME IN BLODD SERUM OF PATIENTS WITH ACTIVITY. RHEUMATISM IN ACUTE STAGE OF THE DISEASE IS ELEVATED AT AVERAGE BY 6-7 TIMES. THE TOTAL BASE ESTERASE ACTIVITY OF BLOOD SERUM REFLECTING THE ACTIVITY OF PROTEINASES OF TRYPSIN TYPE (AND KALLIKREIN) TENDS TO INCREASE IN PATIENTS WITH RHEUMATISM. BLODD SERUM KININGGEN CONTENT IN PATIENTS WITH RHEUMATISM (II AND ILL STAGES OF RHEUMATIC PROCESS) WAS DIMINISHED FROM 4.6 (CONTROLL TO 3.5 MUG OF BRADYKININ PER ML. THE ACTIVITY OF KININASE (CARBOXYPEPTIDASE N) WAS UNCHANGED. ANTITRYPTIC ACTIVITY OF BLOOD SERUM OF PATIENTS WAS DECREASED DURING THE III RD STAGE OF THE PROCESS ONLY; IN PATIENTS WITH I AND II STAGES THE ACTIVITY WAS AT THE NORMAL LEVEL OR EVEN SLIGHTLY INCREASED. THE ANALYSIS OF RESULTS INDICATES TO SOME CORRELATION BETWEEN CHANGES IN CHARACTERISTICS OF KININ SYSTEM COMPONENTS AND THE EXTENT OF RHEUMATIC PROCESS ACTIVITY. THE FALL IN KININGGEN CONTENT AND INCREASE IN KALLIKREIN ACTIVITY BOTH TESTIEY TO THE ACTIVATION OF KININ SYSTEM AT RHEUMATISM. UNCLASSIFIED 

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turned in the Krasnova	rsk Region (	Collection or	works), hie	Subjarsk, 17	12,
pp 60-66 (from RZh-Mel	khanika, No 3,	Mar 73, Abst	ract No JVIJ	.9)	
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PAS'RO, P.G. Ę (Arricla by T. D. Levicekaya, E. G. Pas'ko, B. L. Kidyarov, Novosibirski Sorreibisski, <u>III Sizposium po Protessas Bosta i Sintera Poluprovodnikovykh</u> Frinchler, Jurnik Bustian, 12-17 Juna, 1972, p 521 7-11-The hydrogen flow diluted with mitropen peakes over sintered winc oxide, reductor it and transporting it into the curscallisation zone to which the sixture of oxygen and mitrogen is ted. The quantity, wise and partection of sixture of arygen and mitrogen is ted. The quantity, wise and partection of the min saide crystals depend on the process temperature and the oxygen and the size saide crystals depend on the process temperature and the oxygen and and an apperiments, study was made of the crystallization process in this system. The feeding of vater vapor together with hydrogen into the reduction some promotes a decrease in the number of fine actuals crystals and Browth of larger perfect crystals. With a duration of the process of 90-70 hours, well faceted crystals of sincits were obtained which are elongsted along the c axis 3-4 mm crystals of sincits were obtained which are elongsted along the c axis 3-4 mm The replacement of oxygen by water in the oxidation some changes the crystallographic direction of the predominant crystal growth: the trystals have the shape of a three-sided prion extended along the a-cats and with dimensione of 3 x 3 m. hydrogen concentrations. こじょい In the general case where a flow of hydrogen, water and nitrogen passes over the sintered zinc oxide and oxygen, water, nitrogen are fed into the crystallisidan zone, the form of crystal growth is determined by the ratio of the component concentrations in both flows. The process temperature of crystallination of quite perfect crystals is reduced to 1200°C by comperison with 1300°C-1400°C used in similar processes. CENATE OF TIME DEIDE CRIETALS IN THE Inducting "N2"02 N2 and Inducting N2"12 N2 OF A thermodynamic energy is we performed on the  $\rm ZeO_{solid}^{-1} H_2^{-} O_2^{-1} N_2$  system. 30040 51.3 . . 51 ŋ (v: 

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아이님 말 같 같 ALAVIDZE, G. R., PASKONOV, V. M., Sb. rabot Vychisl. tsentra Mosk. un-ta, 1970, vyp. 15, pp 103-109 to power generating conditions leads to development of temporary gas-heating regions in the channel. A rapid increase in stagnation pressure at the input to the channel causes considerable gradients of the electrode potential and hydrodynamic parameters. The inductance in the external circuit causes aperiodic damped oscillations of gasdynamic and electrical parameters. Increasing this inductance increases the time of transient processes and the amplitude of the oscillations. Yu. N. Denisov. 212 

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UDC 628.163 USSR PASKUTSKAYA, L. N., Candidate of Technical Sciences, and DRAGINSKIY, V. L., Engineer "Use of VA-2 Cation Flocculant in Purifying Drinking Water" Moscow, Vodosnabzheniye i Sanitarnaya Tekhnika, No 1, 1970, pp 15-19 Abstract: Conventional flocculants (notably aluminum sulfate) raise the pH and the alkalinity level of treated water to the point where damage to metal pipes and concrete is possible. s\_\_ The newly developed VA-2 flocculant, based on the bonding of suspended and colloidal particles by a polymer molecule, has been tested in various waters of the Soviet Union with good results. Several advantages of VA-2 are noted: 1) the pH and alkalinity of the water are not affected; 2) no additional mineral flocculants need be added; 3) sedimentation and clarification of turbid water are considerably more rapid than with use of mineral coagulants; and 4) the filtration cycle is more prolonged, allowing increased filtration speeds. On the negative side, the use of VA-2 is not effective in the purification of stained water. Graphs and tables accompany the article. 1/1 122 II. DE ESTE SEG MENSEENING SE FRANKE EN DE EN I EN DE ESTE MENSEENING SE FRANKE EN DE I EN DE ESTE SE FRANKE EN DE EN D 

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202330007-2 Acc. Nr: #70038051 Ref. Code: **UR 0056** Zhurnal Eksperimental'noy i Teoreticheskoy **PRIMARY SOURCE:** Fiziki, 1970, Vol 58, Nr 1, pp 309-323 STIMULATED MANDELSTAM - BRILLOUIN AND STIMULATED ENTROPY BACKSCATTERINGS OF LIGHT PULSES V. I. Bespalov, G. A. Pasmanik A theory of stimulated Mandelstam - Brillouin and entropy backscatterings of light is developed in the prescribed pumping field approximation by taking into account fluctuation processes in the medium. The intensity and spectral distribution of light scattered by laser pulses whose duration is either greater or smaller than the time of traversal of the scattering volume by light are determined. Accumulative effects arising on scattering of a set of ultrashort pulses are discussed. In particular narrowing of the scattered light spectrum with growth of number of the exciting pulse is considered. REEL/FRAME 11 19731095 ors a Halimli ( ) Maasaali ( ) Maaraali ( ) Maaraali ( ) Maasaali ( ) Maasaali ( ) Maasaali ( ) Maasaali ( ) Maasa

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	"Multi-Gap Reso	onator for a Klystro	on Amplif:	ler"		
	Moscow, <u>Otkryt</u> znaki, No. 33,	<u>iya, izobreteniya, r</u> 1971, pp 171-172	promyshler	<u>nyye obrazt</u>	sy, tovarnyy	e
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	PAVLOV, O. I., PASMA	NIK . V	
	"A Multicavity Drift	Klystron"	
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	"A Klystron"					
	Moscow, Otkrytiya, Izobra No 24, 1970, Soviet Pater					
	Abstract: This Author's tains resonators with dis tubes fastened at the cer As a distinguishing featu ficiency of the klystron housing through coaxial r of the resonators. 2. A fact that the coaxial mat	tributed intera ter to the hous: we of the patent are improved by matched SHF loads modification of	ction made up of ing by means of t, the operating connecting the which are fast this klystron d	l a housing as radial metal stability as metal rods to ened to the h istinguished	nd drift rods. nd ef- o the nousing by the	
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"Towards a Calculatio	on for Klystrons With Multigap	Resonators"	
Scientific-Technical	aucnno-tekhn. sb. Elektron SVC Collection. Microwave Electron a i yeye primeneniye, No 7, Ju	ics), 1970, No 1, pp 53-73	
formula is obtained f resonators. Each of electrons interact wi characteristic of the assumed that the cycl within the limits of approximate calculati	basis of the linear one dimens or the amplification factor of the resonators has an arbitrar th microwave fields and operat corresponding phase angle bet e of the system of gaps and th each resonator. The results o on of the stress of the klystr	a klystron with multigap y number of gaps in which e at any mode of oscillation ween neighboring gaps. It is e width of the gaps is fixed btained make possible an	ls s
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H  $\mathbf{H}$ ÷ į 1.1 PAS ر۷ 5 SPR5 55893 The productivity of spring crops is determined to a significant extent by the Meteorological conditions of the spring-summer period. It is clear that the farm crop harvest forecast compiled before planting the crops must consider the expected characteristics of the growing conditions in the given year. As the same time, the annual correction of the structure of the planted areas consideing the expected productivity of thu primary grain grops in dif-farent farm regions could have a significant effect on the increase in the grain harvest in the country. Consequently, a method of forecouting the yield of primary farm grops which will permit estimation of the productivity of these crops before beginning to plant them is necessary [7]. The existing methods of forecasting the farm crop harvest are based on considuring the state of the plants and the data on the accumulated weather conditions by a certain point of the venctative nerical. The possibilities of using such forecasts are highly limited innemeth as they are compiled during the period when the crop is already growing. In this case, it does not appear possible to reduce the seeding areas occupied by a low-yield errop in the given year and to expend the planting of another the harvest of which is expected to be higher. 5 [Article" by Candidate of Geographic Sciences V. M. Paeov, institute of Experi-mental Mereorology: Kaseov, <u>Metercologiya 1 Gidrologiya</u>, Russian, No 2, 1972, submitted 19 July 1971, pp 71-78] the results of weather forecasts as the initial data inasmuch Obviously, it is inexpedient to dovelop methods of forecasting the harvest using HARVEST HUNERICAL large arrors (the forecast based on the forecast has low POACCAST of which the conclusion of the theoretical possibility of com-pling the spring crop larvest forecast before beginning to plunt the crop is drawn. The characteristics of the state of the stmosphere (according to L. A. Vitel's and G. Ya: Vangengeym) during the months precoding the venetative period are used as Results are presented from numerical experiments on the basis EXPERIMENTS WITH RESPECT TO COMPILING THE LONG-RANGE SPRING CROP ឧ reliability). UDC 551.50:631.175 as this can lead 

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oplughtes Description: (1)  $\mathcal W$  located from the institute of Biophysics at Pushchino. On the busis of these V.G. PAJOYAN persons are listed below together with the subjects and dates of the articles: articles, it was populble to associate 19 new persons with the institute. These Institute of Miophysics, Pushchino Kiseluv, Ye. Yo. Ivannikova, A. G. Berestovskiy, G. H. Basurmanov, O. K. (U) During this quarterly reporting period, 13 new articles were Gaziyev, A. I. Eravchenko, N. A. Marimanov, A. A. Panov, A. A. Pasoyan, V. G. Revin, A. F. Porotikov, V. I. Wasloy, Yu- Y. Razhin, V. D. Postnikova, G. B. Irinchar, K. S. Zaikin, A. N. Sukhoruchkina, L. V. Zuzin, A. M. Zakrahevekaya, D. T. UNCLASSIFIED All biophysics endocrine system SECTION 111 pho spholifids plant physiology VNG muscle pinysiology EPR spectra endoctine system radiation effects , radiation of facts chromatography EPR spectra phospholipids muscle physiology plant physiclegy rodistion effects chromatography hydrogen peroxide DXX X DNA ł Set Selecter Adiotraci Intercou June 11 Pacientils 1970(13) 1970(17) 1970<sup>(19)</sup> 1959(20) 1970<sup>(21)</sup> 1973(23) 1520(22) 1970(17) (22)<sup>(22)</sup> 1970<sup>(24)</sup> 1970(21) 1970<sup>(24)</sup> 1970<sup>(23)</sup> 1970<sup>(1S)</sup> (02)<sup>696</sup>1 1970<sup>(23)</sup> 1970<sup>(25)</sup> 1970<sup>(19)</sup> 1970<sup>(19)</sup> Diane 

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CCUNTRY OF INFOUSSR
SOURCEBIDFIZIKA 15(1): 12-19. ILLUS. 1970
DATE PUBLISHED70
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1/2 014 TITLEDAILY DIURESIS AND DYNAMICS OF LEPTOSPIRA EXCRETION BY MICROTUS OECONOMUS -U- AUTHOR-(04)-KARASEVA, YE.V., PASSOVA, D.M., LITVIN, V.YU., KO	ROOT VOLES
COUNTRY OF INFOUSSR	
SOURCEZOOLOGICHESKIY ZHURNAL, 1970, NR 3, PP 435-439	
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THE DAILY URINE VO	LUME VARIED FROM 8.1-30	A MI LAVERAGE TR.	SHUWED THAT
INDIVIDUAL URINE S	AMPLES AVERAGED 0.72 ML	URINE WAS PASS	ED 11-38
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OURING THE DAY THE	VARIED FROM 1 TO 10 OUT	DF 70-80 MICROSCO	IPE FIELDS.
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AND CONSEQUENTLY T	HE NUMBER OF LEPTOSPIRA	IN THE URINE INCR	EASED.
MICROTUS DECONOMUS	WAS THE MAIN CARRIER OF	L. GRIPPOTVPHOSA	TN NATHRAL
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COLLECTED IN THE LA	AIN MICROTUS DECONDMUS 4 BORATORY. IN INITIAL	STAGES OF LEPTOSP	UMES WERE
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ENDERED DISCOUNTED UDC 541.121:547.581.9'241.057 USSR YA, and YANSON, E. YU., Latvian "Order of the Red RUDZIT, G. P., PASTAFE, S. Banner of Labor" State University imeni P. Stuchka "Tetraphenylphosphonium Salts of X -Furandithiocarboxylic, Dithiopiperonylic and 2-Hydroxydithiobenzoic Acids" Riga, Izvestiya Akademii Nauk Latviyskoy SSR, Seriya Khimicheskaya, No 2, 1972, pp 163-166 Abstract: The spectrophotometric method was used to determine the ionization constants of thiolthionic groups in tX-furandithiocarboxylic acid ( $pK_{CSSH}$  = 2.04) and dithiopiperonylic acid ( $pK_{CSSH} = 2.29$ ). Using radioactive isotopes, the authors studied the time dependence of the degree of extraction of zinc, nickel and trivalent iron compounds, with tetraphenylphosphonium salts of X-furandithiocarboxylic acid, dithiopiperonylic acid and 2-hydroxydithiobenzoic acid serving as reactants. It was found in all cases that equilibrium is reached slowly due to the hydrophobic nature of the tetraphenylphosphonium ion. 1/1 isente

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	YEROKHINA, K. I., LEMBERG, I. Kh., PASTERNAK, A. A., Physicotechnical In- stitute imeni A. F. Loffe, Soviet Academy of Sciences	
	"Attenuation of the Doppler Shift of the Energy of Gamma Rays Emitted as a Result of Coulomb Excitation"	
	Moscow, Izvestiya Akademii Nauk SSSR: Seriya Fizicheskaya, Vol 37, No 8, Aug 73, pp 1595-1608	:
	Abstract: Ge(Li) gamma-ray detectors with their inherent high resolution give additional information on the lifetimes $\tau$ of excited states based on measurements of attenuation of the Doppler shift of gamma-ray energy. Com- parison of data on the partial lifetimes $\tau$ (E2) obtained in research on	
	Coulomb excitation by measuring the absolute yields of gamma rays with the values of $\tau$ obtained in these same studies as a result of measurements of Doppler shift attenuation gives the possibility of computing the reduced	
	probabilities B(M1) of magnetic dipole transitions. In this paper the theoretical shape of the Doppler-shifted gamma line is calculated by ap- proximating the exact distribution function using a convenient expression	
	which is true for any directions of the recoil nuclei. A comparison of 1/2	
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USSR YEROKHINA, K. I. et al., Izvestiya Akademii Nauk SSSR: Seriya Fizicheskaya, Vol 37, No 8, Aug 73, pp 1595-1608 The experimental shape of the Doppler-shifted line with the expression given in this paper for the theoretical shape of the line showed satisfactory agreement. More than fifty lifetimes of levels in thirty nuclei with mass numbers from 52 to 133 were determined. The range of measured values of t was from 0.05 to 3 ps. The average time for computer processing of one gamma line was 15-20 minutes. The lifetimes were measured for the first time for 25 of the excited states.

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	KOVALEVSKAYA, N. V., BEKKER, V. E., and PASTERNAK, F. A., Institute of Oceanology, Academy of Sciences USSR, Moscow	
	"Biological Studies During the First Voyage of the Scientific Research Ship 'Dmitriy Mendeleyev' in the Western Tropical Atlantic"	
	Moscow, Zoologicheskiy Zhurnal, Vol 49, No 3, 1970, pp 478-479 Translation: The new scientific research ship of the Institute of Oceanology, Academy of Sciences USSR, "Dmitriy Mendelevey" jeft on 21 July	
	70 stations were visited covering about 14,900 nautical miles, with one stop at Montserrat and two entries into the ports Port-of-Spain (Trinillad) and Gi- braltar. The main goal of the voyage was to take instrument readings of the cal experiments were carried out and the Lesser Antilles. Concurrently, biologic	
	and ichthyoplankton, as well as several attempts at artificial fertilization of fish roe and incubation in an aquarium. These studies were conducted by the authors of this paper at 60 stations of the trip.	۲
	Fish collection produced about 100 different species belonging to 80 genera 1/8	
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· F 사용 방법 등 위해 유민이다. USSR KOVALEVSKAYA, N. V., et al, Zoologicheskíy Zhurnal, Vol 49, No 3, 1970, pp 478-479 and 46 families, and in addition a considerable quantity of fish ova and larvae (determination of quantity was impossible during the voyage). The collection yielded 28 shore types and 68 ocean ones (43 bathy- and mesopelagic and 25 epipelagic). The most diverse are the mesopelagic family Myctophidae (8 genera and 18 species) and those from epipelagic Exocoetidae (6 general and 11 species). The remaining 44 families were represented by 1-2, or occasionally by 3 species. Quantitatively, the most numerous was the collection of flying fish (Exocostidae). The collection of deep sea fish was quite diverse, but most types were represented only by single examples. The only exception were several types of Myctophidae which came to the surface at night and could be relatively easily caught by surface catching equipment. For example, when the ship was stationed at Montserrat Island, about 200 examples of Diaphus dumerili and D. garmani were caught with dip nets. It is also interesting that real mesopelagic types, which reside during the day at depths of 300-500 m, could be found in large quantities at night at a depth of about 20 m. Finally, it should be noted that these types were caught at one station only in the immediate proximity of the island. All นการและเป็นการและเป็นการและเป็นการและเป็นการและการและการและการและการและการและการและการและการและการและการและการ

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other Myctophidae found at night on the surface were discovered at considerable depths (1000 m and more). These include the only example of Myctophum selenops, a species known by only a few examples.

From the zoogeographic point of view, an interesting catch was made at S° north lattitude and 53°16' west longitude -- one example of Electrona rissoi (Myctophidae), which is well-known in the eastern Atlantic but not found in the past west of 40° west longitude. Catches of several rare and poorly studied types were also interesting (Heterophotus ophistoma [Astronesthidae], Lepidophanes supralateralis [Myctophidae] and some others).

Most numerous were catches of epipelagic fish, made at night with electrical illumination, using dip nets and a Savilov pleustonic trawl net; Oxyporhamphidae and Exocoetidae comprised this group. Most numerous forms in these groups were Oxyporhamphus micropterus, Parexocoetus brachypterus, Exocoetus volitans. Prognichthys gibbifrons, Hirundichthys affinis and H. speculiger. These types, except for P. brachypterus, were found at almost all stations, while the latter was found up to the 300 mile limit from the shores. 3/8

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USSR KOVALEVSKAYA, N. V., et al, Zoologicheskiy Zhurnal, Vol 49, No 3, 1970, pp 478-479 Roe and larvae of Oxyporhamphus micropterus and O. meristocystis (the latter only near the Tobago and Barbados Islands) were found in the ichthyoplankton catch. Up to now it was believed that the first -- the oceanic type -- was widely scattered in tropical areas of all three oceans, and the second -- the neustic -- only in Pacific and Indian oceans. The roe and larvae of O. micropterus were caught both near the shore and far away from them, but the largest catch was made at a station northeast of the Guiana shores. In the same region, intensive spawning of one of the most numerous types of flying fish, Exocoetus volitans, took place (up to 880 larvae in one 20 min catch with the pleustonic trawl net). In March, 1969, northeast of the Lesser Antiles, these two types did not spawn, and the offspring observed there were most probably carried over by the Guiana and Antilles streams. Spawning of other flying fish was also observed in this region. Northeast of Desirad Island, developing roe of Cheilopogon furcatus was found, and at Montserrat Island, running males and females of Ch. lutkeni were caught. 4/8 

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In recent years (mainly due to the efforts of Soviet expeditions) a systematic quantitative study was carried out of the benthic fauna of the Pacific, Indian and Southern oceans. Charts of quantitative distribution (quite detailed for many regions) were prepared, and some interesting principles were determined for the distribution of benthic fauna in these areas. As paradoxical as it seems, no such studies were carried out in the Atlantic ocean. Currently only isolated data exist on the quantitative distribution of benthos around the shores of Central and South Africa, along the meridian cross section from the shores of Greenland to the equatorial zone, and along the cross section from North America to Bermuda. Therefore, even these unpretentious results, obtained during the first voyage of the scientific research ship "Dmitriy Mendeleyev" are quite interesting.

The poorest development of benthic fauna on the meridian cross section mentioned above is found in the southern part of the tropical zone, where it is represented by a single foraminifera. Extreme paucity of benthos was also observed in the northern zone. There the benthos biomass reached only  $0.002-0.005 \text{ g/m}^2$ . At the same latitude but somewhat closer to the Antilles ridge islands, at a depth 5/8

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		of 4600 m we found $g/m^2$ , mainly due t Evidently this is	a witreous snong	es and DOLY	chaeta, A	crcinae a	mu nordan	Tage.	
		Several quantitati along the ridge of biomass was 0.3-1. of the stations al	the Antilles Is: 9 $g/m^2$ . These in and the porth po	lands. The ndicators, rtion of th	re, at a c considerii e tropica.	ng the de l zone, a	pths and re consid	locations ered to	
		be quite high. Ev were obtained alon American continent	en more interest g the cross sect al incline and i	ing and act ion of the ts foothill enthic faun	ually some upper and zone sou a was fou	lower pa th of the nd at fou	arts of th Orinoco ar station	e South delta. s. At	
		400 m, the biomass reached 34.24 $g/m^2$	of bivalve moll: Lower down the	usks, polyc e incline, e the polyc	at a depti haeta. cr	h of 800 ustaceans	m, the be and biva	nthic lye	
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Amphiura types were found, which together with the polychaeta, isopoda crabs and bivalve mollusks gave a biomass of $18.24 \text{ g/m}^2$ . At the same station, sev- eral examples of pogonofora were found. These are noteworthy data. Expeditions in past years determined the high productivity of the benthos fauna of the con- tinental incline of the Pacific and Atlantic oceans at moderate latitudes. The fact that benthos values for the bathyal zone of the tropical belt obtained by us are fully comparable with those of the continental incline of moderate lati- tudes, is a very unique phenomenon requiring intensive studies. In the region studied, a distinct stratification of waters is to be expected, as well as a possible deep layer of oxygen minimum. This circumstance, together with the strong shore run-off carrying considerable organic and mineral material, should favor accumulation and rapid preservation of unoxidized organic material in the bottom. Even at the deepest station (4650 m), remote from the shore, terrigenous residues were found, inhabited by relatively rich fauna of polychaeta, oenotera,	
and sea lilies, with a total biomass of 0.39 grams per square meter.	
The study of the benthos of deep sea channels began comparatively recently, but a lot was already accomplished. Ultraabyssal invertebrates were found in almost 7/8	

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all channels of the Pacific Ocean. In this respect the Atlantic Ocean was studied much less than the Pacific Ocean. Before our study in the Puerto Rico cahnnel, one trawling was carried out at a depth of 7000 m, and two at a depth of 6000 m, but to this date the results of these studies have not been published. Therefore, from the trawling test-runs of this voyage, the most valuable is the trawling in the western part of the Puerto Rico channel, at a depth of 6300 m. The trawling yielded more than 25 types of various benthos invertebrates polychaeta, bivalve mollusks, and holothurioidea (a total of about 80 examples). The almost total absence of isopoda crabs was noteworthy, even though it is a usual component of ultraabyssal communities. Undoubtedly the results of this trawling will turn into a special intensive study. During our stay at Port-of-Spain, we visited the West Indies University and Fishing Station, and learned about their activities. An exchange of collection
and demonstration materials took place.
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