1/2 022 UNCLASSIFIED PROCESSING DATE090CT70 TITLEX RAY DIFFRACTION DETERMINATION OF THE ORIENTATION OF GALLIUM SINGLE CRYSTALS -U- AUTHOR-[03]-PINES, B.YA., SIRENKO, A.F., VLASOVA, N.Y.	
COUNTRY OF INFOUSSR	-
SDURCEIZV. VYSSH. UCHEB. ZAVED., FIZ. 1970, 13(2), 142-4	
DATE PUBLISHED70	
SUBJECT AREAS-PHYSICS, CHEMISTRY	-
TOPIC TAGS-X RAY DIFFRACTION ANALYSIS, CRYSTAL LATTICE STRUCTURE,	
GALLIUM, SINGLE CRYSTAL, STEREU CHEMISTRY	
CONTROL MARKINGNO RESTRICTIONS	
DUCUMENT CLASSUNCLASSIFIED PRUXY REEL/FRAME1993/1915 STEP NOUR/0139/70/013/002/0142/0144	
CIRC ACCESSION NOATOL14355 UNCLASSIFIED	



CIA-RDP86-00513R002203520013-3



APPROVED FOR RELEASE: 08/09/2001

## CIA-RDP86-00513R002203520013-3

USSR

VLASOVA, O. A., et al., Isvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 3, 1972, pp 534-536

Euch reduced for the sample ground for 1 hour, MaY-1, and absent for Na-4. The total intensity was also much reduced, indicating decreasing crystallinity with increasing grinding time. The IR spectrum of NaY-4 between 1400 cm-1 and 300 cm-1 was much smoother and showed much greater absorption than that for NaY, although the peak positions more similar for all the upectra. The data obtained indicate that grinding induces changes in the crystal structure and adsorption capacity of NaY type medites.

- 16 -

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APPROVED FOR RELEASE: 08/09/2001

USSR UDC 621.371.332	
VLASOVA, O. K., GAYLIT, T. A., and GUSEV, V. D.	
"Scattering Angles in the Reflection of Radio Waves from the Ionosphere"	
Moscow, V sb. X Vses.konf. po rasprostr. radiovoln. Tezisy dokl. Sekts. 1 (Tenth All-Union Conference on the Propagation of Radio Waves; Report Theses; Section 1collection of works) "Nauka," 1972 pp 383-387 (from RZhRadiotekhnika, No 10, 1972, Abstract No 10A337)	
Translation: A comparison is made of the experimental histograms for $\Theta$ and $\Psi$ with the theoretical laws of distribution in scatter- ing by large-scale and small-scale ionospheric nonuniformities. For these cases, the distribution laws of the polar angle differ and are satisfactorily described by the theoretical laws for the geometrical optics zone and the Fraunhofer diffraction zone. The distribution of the azimuthal angle in the plane perpendicular to the direction of propagation in all cases has two maxima. One il- lustration, bibliography of six. A. L.	0 1
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#### CIA-RDP86-00513R002203520013-3



APPROVED FOR RELEASE: 08/09/2001

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002203520013-3 13311月間2 172 1007 TITLE-HELT FROM DEPTH AT THE BIBIEVAT OIL AND GAS FIELD ----AUTHER- (03)-SUXHAREV, G.A., TARAXHUNA, YU.K., VLASOVA, S.P. Wind and a start a start a start a start a start a COUNTRY OF INFO--USSR SEURCE--AKAD. WAUK SSSR JOKLADY, V. 190, NO. 1, P. 176-179, ILLUS., TABLE, 1970 DATE PUBLISHED-----70 1 SUBJECT AREAS---EARTH SCIENCES AND OCEANDERAPHY, MATERIALS TOPIC TAGS--GEOSRAPHIC LUCATION, MATURAL GAS, CHUDE DIL, PETROLEUM DEPOSIT, GESGRAPHIC LOCATION, GEOTHERNAL GRADIENT TENTROL MERLERS-MO RESTRICTIONS BOCHNENT CLASS--UNCLASSIFIED STEP ##+-URJC020/70/190/001/0176/0179 ##287 REELIFRAME-3005/2006 WILL'ASSISTED ....

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GENTHERMAL GRADIENTS RAM	ISE FROM U.0266DEGREES	SETO G.434DEGREE	S PER METER.
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PARTICULARLY INTENSIVE RESULTS USPPORT AN EARL	IN THE VICLINITY OF THE	THAT BET MICHT B	THESE F POSSIBLE
TO PROSPECT FUR STRUCTU	RES AND FAULTS BY INVE	STIGATING HEAT	LOW EVEN IN
RELATIVELY SHALLOW WELLS			
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Acc. Nr.: APO 041082			
USSR		UR CORY	
VLASOVA. T. Chairwoman of the Society Znaniye	ŲD	C: None	•
"Seventy of Them"			
Moscow, <u>Grazhdanskaya Aviatsiya</u> , No. 1, 70, p. 1	6		
Abstract: The chairwoman of the factory society is describes the various activities in her organization often give lectures on the strengthening of solid nist and workers' parties or a new upsurge in the imperialism. The society has grown from 12 members ago to its present roster of 70. The names of so prominent members are given. This year many repor- read to more than three thousand workers of the p dition to the usual lectures given by the society latter are invited to nearby schools, plants, and communities.	Znanive (Kr tion, Eng- larity of ( struggle ers only si ome of the orts have to lant, and	ineers commu- against .X years most been in ad-	
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# "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002203520013-3 Pedagogic Sciences VLASOVA, T.A. The development in our country of defecteday, as a single complex science for children with development of a certain level of differentiated education hases for further improvement of a differentiated network of specialized schools, and preschool inneitrutions. This is also indered with the fact that, at the present time, there are nine types of network of specialized at the present time there are nine types of network of the USSB, constant of a children with complex defects (blick-dotted the USSB, constant, we school in and others). All specialized whereas the bised other than the areated and bind, and others). All specialized whice the there that the and like the school of the third other that the schools of the the equivalent of alph-year or secondary school and word the training in inductrial and agricultural fields over different periods of the. referable to multiony, viunal, speech, intellectual, motor, enertional-voittional, and other disturbances, either individually or in the cost diverse combinations for each of thus categories of children different conditions are required to correct their developmental defects. On this basis, the chief objective of theoratical research in defectology is scientific substantiation of differentia-All branches of defectological science, the different branches of physiclogics, special psychology, diverse aspects of clinical and neuro-ment of technical investigation of children with developential anexalism, develop-their chief anal of coroting and compensating for directal leve as and succession that would post adquately consider the developmental distinctions of the unceation that would post adquately consider the developmental distinctions referable to ysychophysical development. Succase in overcosing deviations in child development depend to a declaive axiant on actentific mubatanithation of the system of differentiated education and uppringing for each category of children with anomalien, under conditions of correctively oriented treatment and education. [Article by T.A. Vinnova, Scientific Research Thetitute of Defectelogy, USSR Academy of Padagogic Sciences, Moscow; Nuncow, <u>Venenik Akademit Scitetinuliki</u> Mauk <u>SSSR</u>, Rusmian, No 4, 1972, pp 60-66] PROBLEMS PERTAINING TO OVERCOMING DEVELOPMENTAL AMOMALIES IN CULLUSION Developmental deviations of children are extremely diverse. - 17 -5783 56091 55 May 72. 1747 , 171.91/.92

APPROVED FOR RELEASE: 08/09/2001

#### CIA-RDP86-00513R002203520013-3



APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002203520013-3

WC 669.71.4(088.8) USSR GEORGIYEV, V. M., and VIASOVA, T. G. "Method of Degassing Metals and Alloys" USSR Author's Certificate No 263146, filed 22 Sep 67, published 29 May 70 (from RZh-Hetallurgiya, No II, Nov 70, Abstract No 11 G123 P) Translation: A method is proposed for degassing metals and alloys in the molten state by using ultrasound. In order to intensify the process, a constant electrical field is applied simultaneously to the melt, whereby the cathode is placed above the anode. 1/1

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APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002203520013-3

22 11 11: 213 M 11: 035 M 11 USSR

#### UDC 615.372:576.851.553.097.29].015.36

VIASOVA, YE. V., Institute of Epidemiology and Microbiology imeni Gamaleya, Academy of Medical Sciences USSR

"Correlation Between Survival Time in Mice and the Intravenous Dose of Gas Gangrene Pathogen Toxin"

Moscow, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 1, 1973, p 133

Abstract: Over a wide range of small and medium doses, the correlation between dose and survival time is linear, that is, a plot of the log of the survival time in minutes (Y) against the log of the dose in MLD (X) yields a straight line following the equation Y = a + bX. Coefficient 'a' represents the survival time after 1 MLD, while b = tg alpha, where alpha is the angle formed by the curve and the abscissa. For each of the five toxins investigated, the value of alpha is different, indicating that the mechanism of action of each toxin has different qualitative characteristics. Toxins of Cl. septicum, perfringens, and histolyticum are fast-acting, while those of Cl. oedematiens and sordelii are slow-acting. Between medium and large doses, Cl. perfringens, oedematiens, and sordelii curves have a break due to a change in angle alpha, indicating a change in the mechanism of action. Since gas gangrene toxins have not only a lethal component but also small amounts of other enzymatic components, 1/2

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VLASOVA, YE. V., Zhurnal 1973, P 133	Mikrobiolog	gii Epidemi	ologii i	Immunobiologii	, No 1,	
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VLASOV, YE. V., GINEVSKI	Y, A. S.		
Uch. zap. Tsentr. aero-g	ances on the Transition of a La <u>idrodinam. in-ta</u> (Scientific No 1971, Vol 2, No 2, pp 1-10 (fr 88)	the of the Contural Association	
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UDC 615.372:576.851.555].015.45.032+ 576.861.555.097.29.095.38

VIASOVA, Ye. V., Institute of Epidemiology and Microbiology imeni Gamaleya, Academy of Medical Sciences USSR

"Sensitivity of Mice to Toxins of the Agents of Gas Gangrene with Different Modes of Administration"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 10, 1971, pp 47-51

Abstract: Mice were injected intravenously, intramuscularly, and intraperitoneally with Cl. perfringens, Cl. septicum, Cl. oedematiens, Cl. histolyticum, and Cl. sordelli toxins. The animals were most sensitive to Cl. perfringens, Cl. septicum, and Cl. histolyticum toxins injected intravenously and to Cl. oedematiens toxin injected intramuscularly. They were equally sensitive to Cl. sordelli toxin with all three modes of administration. These differences in mouse sensitivity in relation to the mode of administration indicate that the mechanism of action of each toxin is specific. In traveling from the injection site to the receptor zone, the toxins apparently encounter different "obstacles" (inhibitors or activators) and produce different effects as a result. 1/1

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002203520013-3

USSR UDC 57.085.23:576.851.55.097.29 YERMAKOVA, M. P., SHAMRAYEVA, S. A., ZEMLYANITSKAYA, Ye. P., and VLASOVA, Ye. V., Institute of Epidemiology and Microbiology imeni Gamaleya, Academy of Medical Sciences USSR "Morphological and Histochemical Changes Produced by Clostridium sordelli and Clostridium oedematiens Toxins in Cultures of Fibroblasts, Kidney Epithelium, and Macrophages" Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 10, 1971, pp 23-28 Abstract: C. sordelli and C. oedematiens toxins had a marked cytotoxic effect on cultures of chick fibroblasts, transplanted human fetal kidney epithelium, and macrophages from a guinea pig peritoneal exudate. C. sordelli toxin caused vacuolar degeneration of the cytoplasm, while C. oedematiens toxin produced karyorrhexis, karyopyknosis, karyolysis, karyorrhexis, and marked fatty degeneration of the cytoplasm. Histochemical analysis showed that both toxins intensified acid phosphatase activity in the cytoplasm of the fibroblasts and macrophages, decreased the RNA content of the kidney epithelial cells, and stimulated the formation of lumps of glycogen. The cytotoxic effect was not manifested when the various cultures 1/2

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CIA-RDP86-00513R002203520013-3

USSR

UDC 616.981.57-092.9-091

YERMAKOVA, M. P., and VIASOVA, YE. V., Institute of Epidemiology and Microbiology imeni Ganaleya, Academy of Medical Sciences USSR

"Morphological and Some Histochemical Changes in the Organism of Immune Guinea Figs Upon Intramuscular Administration of Cl. sordellii Toxin"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, Apr ?1, pp 105-109

Abstract: Two-fold immunization of guinea pigs with CL. sordellii toxoid in doses of 5 SU resulted in dovelopment on an intense antitoxic immunity that protected the animals from gas gangrene, as could be shown by administration to them of CL. sordellii toxin. On intranuscular injection of immunized animals with 1-3  $ID_{50}$  of the toxin, a local necrotic lesion of limited extent formed in which intensive infiltration of leukocytes and macrophages took place. The polymorphonuclear leukocytes at the site of the lesion had a high content of alkaline phosphatase and glycogen, while the polyblasts and histiocytes were enriched in question associated with the fact that they exerted a protective action. The pathological process in the local lesion terminated rapidly, whereupon healing took place.

APPROVED FOR RELEASE: 08/09/2001

## CIA-RDP86-00513R002203520013-3



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YERMAKOVA, M. P., and VLASOVA, YE. V., Zhurnal Mikrobiologii, Epideniologii i Immunobiologii, No 4, Apr 71, pp 105-109

muscles and internal organs (specifically the kidneys and liver), intramuscular and endoneural hemorrhages, and edema that were observed in noninnunized animals upon administration of the toxin did not develop. Pronounced immunomorphological changes indicating the high level of immunity took place in the lymph nodes and spleen of the immunized animals.

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	Immunology	
		1997 - A.
USSR	• UDC: 615.372:576.851.555/.015.46	
MASOVA, Ye. V., Laborat	ory of Wound Infections Institute of Epidemiology and	
acrobiology izeni N. F.	Gamaleya, Academy of Medical Sciences, USSR, Moscow	2
O HOMOLOGOUS Toying with	unized With Cl. Oedematiens and Cl. Sordellii Toxoids	
A HOWATOROUS INVINS AIM	h Various Injection Methods"	
oscov, Byulleten' eksper	rimental'noy biologii i meditsiny, No 8, 1972, pp 73-74	
	- menter noy brotogir i medicity, no 0, 1972, pp 73-74	27
stract: In nonimunize	ed mice, sensitivity to toxin injected intramuscularly	
as J-1/2 offer the sensi	UNITY to toxin intected introvenously . End intervenously	
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AUTHOR-(03)-RADOMVSELSKIY, I.D.				 	
CCUNTRY OF INFOUSSR		an ann an an an an an Ann a	1		
SOURCEPOROSH. MET. 1970, 10	(2), 32-7		and the second second		
DATE PUBLISHED70					
SUBJECT AREAS MATERIALS, MECH.	, IND., CIVIL A	NO MARINE	ENGR		-
TOPIC TAGSHIGH SPEED STEEL, PO MICROSTRUCTURE, MICROHARDNESS	WOER METALLIPS			TEEL	
CONTROL MARKINGNO RESTRICTIONS					စ်္ပီလ
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1/2 019 TITLEBIOSYNTHESIS OF		PROCESSING DAT	
IN PLANTS -U- AUTHOR-(02)-VLASYUK, P.			
COUNTRY OF INFOUSSR			
SOURCEFIZIOL. BIOKHIM	. KUL'T. RAST. 1970, 2	(2), 142-7	
DATE PUBLISHED70			
SUBJECT AREASBIOLOGIC	AL AND MEDICAL SCIENCE	S, AGRICULTURE	
TOPIC TAGSBIOSYNTHESI CHLOROPLAST	S, PROTEIN, MANGANESE,	PLANT PHYSIOLDGY,	CYTOPLASH
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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002203520013-3 2/2 019 UNCLASSIFIED PROCESSING DATE---04DEC70 CIRC ACCESSION NO--AP0139622 ABSTRACT/EXTRACT--- (U) GP-0- ABSTRACT. THE EFFECT OF MN ON THE PROTEIN COMPN. OF SUBCELLULAR STRUCTURES (CYTOPLASMIC AND CHLOROPLAST FRACTIONS) OF LEAVES OF PEA PLANTS WAS INVESTIGATED. THE ABSENCE OF MN FROM THE NUTRITIVE MEDIUM CAUSED A DECREASE OF THE AMT. OF CHLOROPLAST PROTEINS PER G OF FRESH TISSUE. THE AMT. OF CYTOPLASHIC PROTEINS WAS NOT THE CHLOROPLAST PROTEINS WERE SEPD. ON & DEAE CELLULOSE INFLUENCED. COLUMN INTO 10-12 COMPONENTS, THE CYTOPLASMIC PROTEINS INTO 13-14. THE ABSENCE OF MN FROM THE NUTRITIVE MIXT. CAUSED CHANGES IN THE QUAL. COMPN. OF PROTEINS: A DECREASE OF A NO. OF COMPONENTS IN BOTH FRACTIONS; AN INCREASE OF AMT. OF PROTEINS ELUTED BY 0.01-0.05M PHOSPHATE, BUFFER PH 8.0; AND A DECREASE OF AMT. OF COMPONENTS ELUTED BY 0.5M PHOSPHATE BUFFER, PH 8.0. FAGILITY: INST. PLANT PHYSIOL., KIEV, USSR. UNCLASS IFTED 

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	LCHKOVA, A. G., KRYS'KO, V.		
"On the Problem of the	Thermal Stability of Flexil	ble Orthotropic Shells"	,
V sb. Raschet prostrán: Dimensional Systems in Saratov University, 193 Abstract No 3V298)	stv. sistem v stroit. mekh. Structural Machanics — Col 72, pp 188-192 (from RZh-Mek	(Calculation of Three- Llection of Works), Saratov, Shanika, No 3, Mar 73,	
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Acc. Nri0036533 Ref. Code: UR 9069 PRIMARY SOURCE: Kolloidnyy Zhurnal, 1970, Vol 32, Nr 1, PP 83-86 SMALL ANGLE X-RAY SCATTERING BY WATER-CONTAINING CONDENSATION STRUCTURES OF POLYVINYLFORMAL G. M. Plavnik, G. M. Sinitsyna, I. N. Vindavets Calling Harris Summary The porosity of the condensation structures of polyvinylformal subjected to treatment with an acetalizing mixture during 6 and 120 hours has been studied by the small angle x-ray scattering method. At maximum water content the scattering intensities of both samples coincide, in this case the porous structure being independent of the acetalation time. After drying the sample subjected to 6 hour acetalation shows practically no porosity. On the contrary, the porosity of the second sample remains unchanged. This indicates that upon prolonged acetalation (120 hours) the structure becomes stable to the capillary contraction forces arising during drying. D. h. REEL/FRAME 19721381 

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VLODAVETS, JPRS 55320 1 Mae 72 Sentiary microbiology, which has been studying the quality of drinking water and samitary state of resurvoirs, soil, and arr, jointly with hypionists, have developed samitive methods and accumulated arrenative superimental and sactual dars, which paratted recommendation of norms that are used in routine sinitury practice to regulate the quality of water. UDC: 616.9-078 From the standpoint of prophylaxis of intestinal infectious; improve-ment of reutine mechads of raing the quality of verter and remitary conduction deportens. One of the Structure is lowk in this area is evaluation of the deportens of the defect to bacterial constantion is becoming very existing methodological opproaches to facily the this area is evaluation of the bucteria an indicators of the degree of fead wollinghon of the relation of the statistic methodological opproaches to facily of the relation of the bucteria an indicators of the degree of fead wollinthon of water. For this subsciential indicators of the degree of fead wollinthon of water. For this subscience is indicators of the degree of fead wollinthon of water. For the subscience of bacterial for a working and with the formation of the relation of the relation of different types and with the relation of different types and with other solution. It was estimated that the Aluons tempera-tion of durines of pollution. in the South but also in the terperate zone. The quelity of water in resur-worke, with respect to facial contamination, is bust charactetized by lactoses-culticant from the sanitury point of view and E, cold that have lost this property and water bacteria. This was confirmed not only for the reservoirs GANITARY MICROBIOLOGICAL MESEARCH DEALING WITH PREVENTION OF DAGTERIAL AND VIMAL INFECTIONS Talayeva. ve Variants of Energlacteridecus, studied on lactose madia at a tempe of 37° and demonstrated best by the awthod of membrane filture (L.Ye. decisive factors in nonspacific prophylaxia of bactarial suis test due not permit precise differentiation between bacteria that are and Viral Infections is institution of health improving hyghenic measures. Frompt development of first and foremost santhary measures is determined largedy by the results of systematic santhary measures is determined tions of environmental physics (uster, air in buildings, soil), Hoscov, Tu [Article by L.Ye. Korsh. C.A. Bagdarar'yan, <u>L.V. Woodawur</u>, Yu.G Keak. Livyseerti, T.Z. Arterova, B.A. Dulrtyvya (108:00); Haaco Madeudi Hoditesinskikh Nauk 3588, Russian, No.I., 1972, pp 71-78] - 106 One of the 12016 2428-2-4613-015-012-5 la devidence devide provident de la completition de la sub-fille de la sub-fille de la completa de la devide d La devide de la completa de la completa de la sub-fille de la sub-fille de la completa de la deservation de sub-Sastanti stance de la completa de la completa de la sub-fille de la completa de la devide de la completa de la

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### CIA-RDP86-00513R002203520013-3

USSR UDC 632.95.024.301 MURAV'YEV, N. H., VMIIGINTOKA, Kiev "A Toxicological and Hygienic Evaluation of Editor" Moscow, Zashchita Rasteniy, No 1, 1970, p 27 Translation: The VNIIKh322 All-Union Scientific Research Institute of Plant Protection Chemicals has synthesized a new fungicide -aditon (ethylenebic-4, 6-dimethyltetrahydro-1,3,5-thydiazine-2--thion). It has been extensively tested and is recommended against many plant diseases: apple mange, grapa mildew, potato and tomato Paytophora, sugar best cercosporella infection and tobacco pernosporosis. The preparation is not a phytocide, influences plants positively, and increases fruit and vegetable erop yields. Editon can be included among the low-toxidity fungicides. The LD50 for rate is 5600+125 mg/kg, and for rabbits -- 4500+560 ng/kg. It is not resorbed through the skin and is not a local irritatant. The cumulative properties of the preparation are not pronounced: the cumulation coefficient with a daily injection into rats of one-tenth of the LD50 equals 6.6. Special calculations 1/4 

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MURAW'YEV, N. N., et al., Moscow, Zashchiva Rastaniy, No 1, 1970,

Determination of residual amounts of the proparation in opples was made after the trees were treated three and five visco. In the triple-treated fruit (4 and 24 June and 20 Jult 1968 with a 0.5% suspension at a rate of 1,000 Liters/hectare), 21 days after the last treatment the editon content in the fruit was 0.5 mg/kg, and their organoleptic qualities had not changed. Usen treatment was conducted peated five times (5 and 19 May, 3 and 22 June and 7 July, 1968) with a 0.5% suspension of editor (1,000 liters/haccare) 30 days after the last treatment 3 mg/kg of the preparation retained in the apples and there was a strange odor. The distinctive arcma of this apple variety had disappeared. After 50 days, the freit contained 1.08 mg/kg of the preparation, and the organoleptic properties were normal.

Testo showed that treatment of tonatoes with a 0.4% suspension must stop at least two weeks before the first harvest. In apple trees sprayed three times with a 0.5% suspension, the last treatment is completed three weeks before the first picking. Maen treatment is repeated five times, the last treatment should end 3/4

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UDC: 620.179.16 NIKIFORENKO, Zh. G., SYSKOV, V. A., KREPS, N. S., IGNATINSKIY, I. L., VNIINK, Kishinev "Ultrasonic Inspection of Bilayer Plates" Sverdlovsk, Defektoskopiya, No 3, May/Jun 71, pp 87-93 Abstract: In order to evaluate the possibility of inspecting bilayer plates by the ultrasonic reflected pulse resonance method (L. G. Merkulov, V. M. Verevkin, Defektoskopiya, 1965, No 5, p-13) when the contacting liquid can wet only one surface of the plate to feed ultrasonic oscillations into the material being inspected, the authors calculate the shape of a pulse reflected from a plate separating liquid from air, disregarding attenuation. A block diagram of the ultrasonic flav detector is presented. The proposed device can be used to check for diffusion welds between the layers of double-layer plates. The results of experiments show that the Merkulov-Vereykon method is a sound basis for highly . sensitive high-productivity flaw detection. 1/1 PERSONAL PROPERTY OF THE PERSON

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AUTHOR-(05)-KARATAYEV, G., VNIY BLOKH, G. COUNTRY OF INFOUSSR	ZEMAMASH, M.,	GAYDAYENKD, YU	., NAUMOV, A.,	
SOURCESTROITEL, NAYA GAZETA,	MAY 6, 1970.	P 2. COLS 5-7		
DATE PUBLISHED06MAY70			•	
SUBJECT AREASMECH., IND., CIV	IL AND MARINE	ENGR. BEHAVIORA	L AND SOCIAL	
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"Experimental High-Precision And Frequency Units On Televi	System Of Transmission	Of The Dimensions	of Time	
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VOBLENKO, S. T., and KULTYGIN, A. K.

"A Procedure for Forming the Unidirectional Output Pulses of a Linear Transforming Combinatory Switch"

USSR Author's Certificate No 278752, Filed 28 May 68, Published 3 Dec 70 (from Referativnyy Zhurnal — Avtomatika, Telemekhanika, i Vychislitel'naya Tekhnika, No 8, 1971, Abstract No 8B171 P)

Translation: A procedure for forming the unidirectional output pulses of a linear transforming combinatory switch is being patented. The procedure is distinguished by the following features, whose purpose is to decrease significantly the energy accumulated in the inductance of the trigger of the switch during the time a pulse occurs and also to increase the limiting frequency of the switch's operation. At one of the outputs of the switch, a pulse is formed whose length is equal to half of the specified length of the pulse in the charge; this pulse is formed by supplying the appropriate combination of input signals to the inputs of the switch. Then the polarity of all the input signals is reversed and at the same switch output a pulse is formed whose length is the same as the preceding pulse, but whose polarity is the reverse of the polarity of the preceding pulse. Both output pulses are then permitted to pass.

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Y TATH TEA TEN STATE AND A TATE THE STATE AND A TATE AND A TAT USSR UDC 678:66.018.86 SEMENKO, E. I., MYSHKOVSKIY, V. I., VOBLIKOVA, V. A., and VENDILLO, V. P. "Study of the Caseous Products of Y -Radiolysis of Polymers in the Presence of Small Doses of Irradiation" Moscow, Plasticheskiye Massy, No 5, 1973, pp 30-32 Abstract: A study was made of the gaseous products formed during Y -irradiation by small (2.5 Mrads) doses of certain polymer materials used in the medical industry: high-density polyethylene, methylmetacrylatebutyl acrylate copolymer polymethylmethacrylate, polyvinyl chloride and copolymers of styrene with methylenthacrylate, isoprene and divinyl. From the experimental results presented it can be concluded that by using highly sensitive gas chromotography to analyze the products of radiolysis of certain polymer materials subjected to the effect of starilizing doses of Y-radiation (2.5 Krads) it is possible to establish the course of the decomposition processes with the formation of  $C_1 - C_5$  hydrocarbons, CO, and CO<sub>2</sub>. Broad utilization of ionizing radiation to sterlize medical products made of plastics requires a detailed study of the mechanism of the initial stages of the decomposition processes of polymers on irradiation of them by small doses. 1/1 

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of Ionizing Radiation in t izd-vo, 1970, pp 261-272 ( No 2V470)	the Scientific and Technical Conference on the Use the National Economy. No. 3), Tula, Prioksk. kn. from <u>RZh-Radiotekhnika</u> , No 2, Feb 71, Abstract	2,8 s.j. 1997 - 199 - 199 - 199
and after long-term exposu from Co-60 at a constant de	present the results of measurements of a complex ries of core types including ribbon cores before re (for a year) to continuous gamma radiation ose rate with temperature control of the specimen. diation resistances. Ribbon cores showed the	
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USSR		UDC 547.26'118	
RLOVSKIY, V. V., VOBSI, Pharmaceutical Institute	B. A., and ZAKHAROVA, L. F., Lenin	grad Chemical	
Preparation of the Diall cids"	cyl Esters of N-Substituted a-Amina	benzylphosphonic	
		72 1165-1166	•
Abstract: The title estend	ney Khimii, Vol 42(104), Vyp 5, 19 ers may be prepared in high yield w dialkyl esters of phosphorous acid	rithout using a With anils in	*. 
Abstract: The title estimates and the starting material starting material starting material starting material starting the product.		rithout using a l with anils in but in an inert s not necessary	
Abstract: The title estended at alyst by reacting the solution at room temperations and the starting material to purify the product.	ers may be prepared in high yield w dialkyl esters of phosphorous acid ture. If the reaction is carried of erials are carefully purified, it	rithout using a l with anils in but in an inert s not necessary	
Abstract: The title estended at alyst by reacting the solution at room temperations and the starting material to purify the product.	ers may be prepared in high yield w dialkyl esters of phosphorous acid ture. If the reaction is carried of erials are carefully purified, it	rithout using a l with anils in but in an inert s not necessary	
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USSR			UD	C 621.43.001.4	•
MOZOKHIN, N. G., VODE Zavolzhskiy Motor Pla	NISOV A VAL, Go	r'kiy Motor V	Vehicle Plan	t,	
"The Longevity of th	e Model 320B (320)	) Stationary	Engine''		
Moscow, Avtomobil'nay	a Promyshlennost'	, No. 7, 1971	. pp 2-3		
Abetracts The employ					
Abstract: The article term tests of the ind	e deals with the j	just-complete	d third stag	ge of long-	
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### CIA-RDP86-00513R002203520013-3

USSR KOLOT, V. YA., TATUS, V. I., RYEALKO, V. F., FOGEL, YA. M., VODOLAZHCHENKO, Your, and YEVSEYEV, V. M., Engineering Physcis Institute, Academy of Sciences Ukrainian SSR, Khar'kov "Effect of Oxygen Pressure on the Initial Stage of Molybdenum Oxidation" Leningrad, Fizika, Tverdogo Tela, Vol 13, No 6, 1971, pp 1521-1524 Abstract: The effect of oxygen pressure on the initial stage of oxidation of nolydbenun was investigated using the technique of secondary ion-ion emission. Holybdonum strips were heated in vacuum up to a temperature of 1900°K, which completely cleaned their surfaces for the absorbed particles and particles of surface concounds. Each experiment began with the molybdonum surface brought to atomic purity. Then the molyceinum temperature Was reduced from 1900 % to a temperature at which the experiment was conducted: nemely, the range 300-1900 K. The kinetics of oxide accumulation on the surfaces of molycienum strips was studied; the current I of a beam of secondary ions driven off from the oxide molecule under study was plotted as a function of time t. The oxygen pressure was varied within the limits 5.10"8 - 1.10"6 torr. The following ion species were investigated: Ho02. 1/2 

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### CIA-RDP86-00513R002203520013-3

USSR KOLOT, V. YA., et al., Fizika Tverdogo Tela, Vol 13, No 6, 1971, pp 1521-1524 Ho03, Mo203, Mo206, and Mo20<sup>+</sup>. An increase in oxygen pressure leads to the following: 1) a shortening of the latency. (time interval between the onset of oxygen adsorption and the instant of oxide formation on molybdenum surfaces; 2) a shortening of the time interval required for an equilibrium oxide film to form on surfaces; and 3) increased oxide concentration. The condition of the surface film (composition and concentration of oxides) is reproducible and reversible with variation in temperature and oxygen pressure. This indicates that the oxide film consists of a layer of surface oxides. 2/2 -102 

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	USSR	UDC 616.981.551-612.014.464	· · · · ·
	BELOKUROV, Yu. N., VOD KIRSANOV, B. N.	DOLAZOV, Yu. A., KAMENNYY, A. N., POPOV, B. V., and	
	"Inhalation of Oxygen	Under High Pressure for Tetanus"	
	Kazan', Kazanskiy Medi	itsinskiy Zhurnal, No 5, 1971, p 93	
	toxin as well as tetan	old male received a prophylactic dose of tetanus anti- nus toxoid for gunshot wounds in the neck and back, an to deteriorate sharply seven days after the injury	-
	and convulsions occurr of tetanus antitoxin,	ed with increasing frequency. When repeated injections oxygen, analgesics, antihistamine, and desensitizing	1 - 54
	institute hyperbaric of	11 and the convulsions intensified, it was decided to exygen therapy $(1-1/2 \text{ hour exposure with } 0_2 \text{ pressure})$ toms began to subside within 24 hours and respiration	a j
	became easier. However and another session was	r, convulsions were provoked by the slightest movement s carried out 24 hours later. The patient's condition	
	to increasingly smaller	ent and convulsions became less frequent and confined r areas. By the 15th day from the time of admission	
1.1.1.1	1/1	linical symptoms of tetanus disappeared completely.	

USSR	WDC 669.715	, ,
KOZHEVNIKOV, G. N., and VODOP!	YANOV A. G.	
"Decomposition Conditions of S Production of Light Metals and Moscow, Tsvetnyye Metally, No.		
the reference literature and is it is demonstrated that silicon decompose in the temperature in tact with oxides of other metal duction of slag and the alloy. Al and Si decompose with product higher valency, up to temperature spectively. At higher temperature production of carbide. To decret seous phase, it is expedient	culations which utilized data of ndividual experimental findings, n and aluminum suboxides do not nterval of 1,000-1,900 °C by con- ls, but they reduce them with pro- In the presence of C, suboxides of ction of carbides and oxides of ures of 2,025 °C and 1,500 °C, re- ires, suboxides react with C with ease Si and Al losses with the ga- to carry out the reduction pro- and increased surfaces of the re- two illustr., two tables, six-	

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USSR	IDC 669.71.053.2	
VODOP'YANOV, A. G., KOZ	HEUNIKOV, G. M., MIKULINSKIY, A. S., and YEFREMKIN, V. V.	
"The Role of Suboxides	of Aluminum in Reduction Processes"	
V. sb. Vakuumn. protses	sy v tsvetn. metallurgii (Vacuum Processes in Non-	
ferrous Metallurgy C 216 (from Referativnyy )	ollection of kbr ks), Alma-Ata, "Nauka," 1971, pp 213- Zhurnal - Metallurgiya, No 6, Jun 71, Abstract No 6G142)	
Translation of Abstract of lower valent Al with	A study is made of the interaction of gaseous oxides SiO, and C at 1450-1700 and residual pressure of	
Translation of Abstract of lower valent Al with 15-22 mm Hg. Al suboxid	A study is made of the interaction of gaseous oxides	
Translation of Abstract of lower valent Al with	A study is made of the interaction of gaseous oxides SiO, and C at 1450-1700 and residual pressure of	
Translation of Abstract of lower valent Al with 15-22 mm Hg. Al suboxid	A study is made of the interaction of gaseous oxides SiO, and C at 1450-1700 and residual pressure of	
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CIA-RDP86-00513R002203520013-3

USSR ADO, YU. M., ZHURAVLEV, A. A., LOGUNOV, A. A., MYAE, E. A., NAUMOV, A. A., PISAREVSKIY, V. YE., ROGOZINSKIY, V. G., TUSHASMAMISHVILI, K. Z., SHUKEYLO, I. A., BOYKO, S. N., KOMAR, YE. G., MALYSHEV, I. F., 5 MOZIN, I. V., MCNOSZON, N. A., MCZALZVSKIY, I. A., SPEVAKOVA, F. M., STOLOV, A. M., TITOV, V. A., <u>WODDELKINGWIMP</u>, A., KUZ'MIN, A. A., KUZ'-MIN, V. F., MINTS, A. L., RUBCHINSKIY, S. M., UVAROV, V. A., GUTNER, B. M., ZALMANZON, V. B., PROKOP'YEV, A. I., and TEMKIN, A. S. "Some Results of the Overall Adjustment and Start-up of the 70-Gev Proton Synchrotron of the Institute of High-energy Physics" Moscow, Atomnaya Energiya, Vol 28, No 2, Feb 70, pp 132-138 Abstract: The physical part of the plan for the 70-Gev proton synchrotron was executed by the Institute of Theoretical and Experimental Physics. The electromagnet with feed system, the vacuum chamber, and the injection devices were developed at the Scientific Research Institute of Electrophysical Apparatus imeni D. V. Yefremov. The radioelectronic systems for acceleration process control and generation of 1/4 

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CIA-RDP86-00513R002203520013-3

USSR ADO, YU. M., et al., Atomnaya Energiya, Vol 28, No 2, Feb 70, pp 132-138 the accelerating field, as well as the radiotechnical measurement and beam observation systems, were developed by the Radiotechnical Institute of the Academy of Sciences USSR. "Tyazhpromelektroproyekt" [State Planning Institute for the Planning of Electrical Equipment for Heavy Industry] designed the general-purpose electrotechnical devices and cable connections. The plan for the construction complex of the accelerator was developed by the State All-Union Planning Institute. The construction of the accelerator was under the general supervision of the State Committee for the Use of atomic Energy USSR. The adjustment of individual systems and the overall adjustment and start-up of the accelerator were carried out by the Institute of High-energy Physics and the developers of the accelerator systems. The basic beam work was done by the Institute of High-energy Physics with the participation of the Radiotechnical Institute. The construction of the accelerator was begun in 1960, and all the basic construction and assembly work was completed at the beginning of 2/4 - 62 . 

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ADO, YU. M., et al., Atomnaya Energiya, Vol 28, No 2, Feb 70, pp 132-138

SARAN YA MARTINI MUTUKANA MANANA M Parana manana manana

1967. At the initial stage of construction, before the formation of the Institute of High-energy Physics in 1963, the work was coordinated by the Institute of Theoretical and Experimental Physics. The linear accelerator injector was started on 28 July 1967, the operation of the individual systems was adjusted by September 1967, and the physical start-up of the accelerator was accomplished on 14 October.

A description is given of the work done to adjust the annular electromagnet (including the electromagnet cooling and feed systems), the injection system (consisting of matching channel and injection device), the vacuum system, the radioelectronic system (including the accelerating field generation system, the acceleration process control system, and the radiotechnical measurement system), and the beam observation system (which provides for beam observation in the first revolution and during acceleration). In the physical start-up of the accelerator the main efforts were directed towards obtaining accelerated protons of the planned energy, and the problem of obtaining high

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# CIA-RDP86-00513R002203520013-3



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SZARZ CIERT N

USSR VDC: 453.	.082.5
VODOP'YANOV, L. K., KOPANEV, V. D., and VINOGRADOV, Ye. A.	
"Automation of Optical Measurements from Points in the Far Infr Region"	ared
Moscow, Pribory i tekhnika eksperimenta, No 1, 1973, pp 206-208	ę
Abstract: Although the method of optical measurements in the fa infrared region involving point-by-point spectrum recording is most accurate, it is also the most tedious. The authors of thi paper therefore present a system for making such measurements a matically. As the simplified drawing shows, the equipment const of a diffraction grating that is turned precisely to a given and a cryostat that periodically enters the light beam for a time and carries the specimen, and a slide which interrupts the beam for signal measurements. A detailed explanation of the equipment's for performing its recording cycles. Two factors were considered with increasing spectral recording time in each phase, and the t	r the s uto- ists gle, nd zero ope-
1/1 - 136 -	

# CIA-RDP86-00513R002203520013-3

# "APPROVED FOR RELEASE: 08/09/2001

IN CONTRACTOR OF THE OWNER OF THE Radio-Engineering 1 ANOV, G. N. [Arcicle by Izvestlya VII The various filters, circulators, and other devices employed in the frequency separation of algunis transmitted in a cornon antennassocguide channel are cumhersone in the waveguide version, while their dimensions grow as the wavelength increases. The general purpose multiar guide assentity, shown schematically in Figure 1, consists of a main transmission line 1 and autiliary transmission line 2 which are crosswise coupled through the vide walls of two beyond-cur-off circular surguides 5 and 4. The toron-cutoff waveguides are coupled with the orthogonally intersecting transmission lines through coupling aparatures in regions where the high frequency magnetic field is circularly polarized for both transmission lines. The sizes of these waveguide assembiles can be appreciably reduced with the use of ferrite reconstruct. The general purpose modular waveguide assumbly (VIPD) described below utilizes the transmission the coupling phenomenon by means of ferrite resonators. situated along the axis of the external field lig proportional Ferrite resonators 5 and 6, counted in teflom enclosures 7 and 5 ad along the axis of the beyond-cutoff waveguides and magnetized a field 10 proportional to the ferromagnetic resonant frequency. The design of a general purpose modular knyeguide usseedly consisting of orthogonally intersecting transmission lines coupled by two ferrice rokonators is described. The cunstruction allows one design version to serve as a directional circulator, specifications for these bandpans A. V. Kislyakovskiy, 21 G. Voientyanov, and S. J. Kustett Mascov U., nddloelektronika, Mussian, Voi 14, Na 10, 1921, pp 1120-1123 filter, filter limiter, rejector filter, and selective \$ 3 functional elements are givenattenuator. The engineering JPRS 57102 26 September directions UNC 621.372.852.1 [1 - USER - T] filter 1972 .\*: ξ, ų, 50 분망 In a second second and the second second second in a second s

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USSR			UDC 621.372	2.852.1	
KISLYAKOVSKIY, A.V.,	VODOP'YANOV, N.G., KU	SHCH, S.N.			
"Waveguide Universal	Functional Unit"		:		
Kiev, <u>Izvestiys</u> Vuzov	SSSR-Radioelektronil	ka, Vol XIV, No	<b>10, 1971, pp</b>	1130-1136	
Abstract: The constr	uction is described of	P. n. 11. n. n			
by two ferrite resons to assure operation o filter, filter-limite attenuator. The sche well as the electrica ion is given of the t	tors, which in one con f the following functi r, rejection filter, f me of the waveguide un l circuit of the magne echnical characteristi	recting at a r letructive exectional elements: 'ilter-circulat liversal functi	ight angle, co aution make it directional   or, end a sele onal unit is a	possible possible bund-pass sctive shown as	
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CIA-RDP86-00513R002203520013-3

UDC 513.735

USSR VODOP YANOV, S.\_K. "Limits of the Deviation of Quasi-umbilical Surfaces from a Sphere" Moscow, Sibirskiy Matematicheskiy Zhurnal (Siberian Mathematical Journal), Vol 11, No 5, Sept-Oct 1970, pp 971-987 Abstract: Every convex surface M has a corresponding convex, positive, homogeneous, first-order reference function h(x). The surface N belongs to a class  $W^2$  if  $h(x) \in W^2_p$ . The characteristic elements of matrix  $\|\partial^2 h/\partial x_1 \partial x_j\|$  are

radii of curvature of M with the normal v. These radii can be related to values equal to zero when the surface M is part of a sphere. The zero values characterize the deviation of the surface from the sphere. The surface N can be continued in a region bounded by two concentric spheres. The radii of the two spheres are compared and relations are obtained. If p(H) is the lower bound of such relations and is greater than or equal to 1, the author questions whether one can suppose that n(M) = 0 and p(M) = 1. If this is true, then what is the order of smallness of p(M) - 1 as compared to n(M)? The author makes estimates of p(M) - 1. The author thanks Yu. G. Reshetnyak for interest in the work. Orig. art. has 5 refs.

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1/2 010 UNCLASSIFIED PRI TITLEPREPARATION OF CRYSTALLINE CYANAMIDE -U-	DCESSI	NG DATE	13NOV70
AUTHOR-(04)-GOLOV, V.G., KUZNETSOVA, L.V., VODOPYANO	V. V.G	IVAN	0Y, M.G.
GOUNTRY OF INFOUSSR	1/		
SOURCEKHIH. PROM. (MOSCOW) 1970, 46(3), 198-200			
DATE PUBLISHED70			
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SUBJECT AREASCHEMISTRY, PHYSICS			
TOPIC TAGSCRYSTAL, CALCIUM COMPOUND, CYANAMIDE			
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CONTROL MARKINGNO RESTRICTIONS			
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2/2 010 UNCLASSIFIED PROCESSING DATE--13NOV70 CIRC ACCESSION NO--AP0124226 ABSTRACT/EXTRACT-- (U) GP-0- ABSTRACT. IN ORDER TO PREVENT FORMATION OF H SUB4 C SUB2 N SUB4 (I) IN THE MANUEG. OF H SUB2 CN SUB2 (III), A CACN SUB2 SUSPENSION IN H SUB2 O IS TREATED WITH CO SUB2 AT LESS THAN 20-5DEGREES. THE CA PRIME2 POSITIVE IONS ARE THEN REMOVED FROM THE RESULTING SPERCENT II SOLN. BY ION EXCHANGE BY THE TECHNIQUE OF GOL'DBERG, ET AL. (1966), THE PH IS ADJUSTED TO 4.5+5.5 BY THE ADDN. OF H SUB2 SO SUB4, AND THE SOLN. IS CONCO. BY A 2 STAGE VACUUM EVAPN. PROCESS TO BOPERCENT II BY EVAPN. AT 400EGREES AND TO 70-BOPERCENT II BY THE II IS THEN CRYSTO. BY COOLING THE SOLN. TO EVAPN. AT 20DEGREES. MINUS 15DEGREES; THE PRODUCT CONTAINS SPERCENT H SUB2 OF 10PERCENT I AND THE BALANCE II. A PRODUCT OF LOWER I CONTENT (4.5PERCENT) MAY BE OBTAINED BY HEATING THE CRYSTALS TO 200EGREES AND REMOVING THE LIQ. THE II MAY BE STORED FOR UP TO 1 MONTH AT 20DEGREES BUT MORE PHASE. PROLONGED STORAGE REQUIRED STABILIZATION OF THE II TO PREVENT FORMATION OF I, E.G., UNSTABILIZED II IS QUANT. CONVERTED TO I WITHIN 11 MONTHS AT 20DEGREES) BY THE ADDN. OF IPERCENT OF BACH OR 0.2PERCENT OF IODINE; AFTER THE STABILIZATION, THE MOLTEN LAT 45-50DEGREESILI MAY BE FROZEN AND GRANULATED BY CRUSHING. UNCLASSIFIED

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### CIA-RDP86-00513R002203520013-3

USSR UDC: 681.3.06:51 POPOV, V. A. and VCDOP'YANOV, V. K. "Minimization of Algorithms on the Basis of Geometric Interpretaticn" Kharkov, V sb. Radioelektronika letatel'n. apparatov (Aerospace Electronics--collection of works) No 5, 1973, pp 171-179 (from RZh--Avtomatika, telemekhanika i vychislitel'naya tekhnika, No 12, 1973, Abstract No 12B71) Translation: On the basis of the Glushkov algorithmic system, the representation of any algorithm is considered in a disjunctive situation on the basis of product operations and x-disjunctive operators. Among the set of regular forms of the algorithm are the normal, canonical, and minimal. A theorem of the possibility of minimizing the number of logic conditions of the algorithm is proved, and an iterative procedure is proposed for the algorithm with the use of a theoretical, multivariate regular operation for the intersection of disjunctive complexes represented in geometric form as the coating of an mdimensional unit cube. Bibliography of four. Resume. 1/1 

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	USSR			UDC 5	77 L		
	POPOV, V. A., and VODOP 'YANOV, V.	K.					į.
	"Minimization of Algorithms on th	Address of the second second	metric In	iterpret	ation		
	V sb. Radioelektronika letatel'n. Apparatus - collection of works), RZh Matematika No 12, 1973, abstra	apparatov (Ra No 5. Khar'ko	dioelecti v. 1973.	: . 	-C. Elleville -	E	1 1
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	Translation: A method is proposed basis of V. M. Glushkov's model (I number of logical conditions, a get terms of covering the vertices of theorem on the possibility of mini	d for transfor 22h Mat, 1966, sometric inter a m-dimension	ming cont 8 V135). pretation	fo mi of thi	nimize the s model in		
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	components did not take pl	ece. The bi	osynthesis	of lipids a	ind protein	s was	
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SUBJECT AREASBIDLOGICAL AND M	EDICAL SCIENCES
TOPIC TAGS-BRAIN, LUNG, BLOOD DOG	PRESSURE, EXCITED STATE, NERVOUS SYSTEM,
CONTROL MARKING-ND RESTRICTION	
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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002203520013-3 18 (111 - 12), ( 30), ( 31), ( UNCLASSIFIED 212 028 PROCESSING DATE--090CT70 GIRC ACCESSION NU-AP0115141 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IN ACUTE EXPERIMENTS ON DOGS DIFFERENT POINTS OF VASOMOTOR CENTRE WERE STIMULATED BY ELECTRIC. CURRENT. THE LEVEL OF AN INCREASE IN MAGISTRAL BLOOD PRESSURE IN RESPONSE TO THIS STIMULATION FELL WITH AN INCREASE IN THE VOLUMEN OF BLOUDY PERFUSED THROUGH THE VESSELS OF THE LUNG LUNE. ON THIS BASIS THE INHIBITURY EFFECT IS SUPPOSED ON THE VASOMETER CENTRE FROM THE MECHANURECEPTORS OF THE LUNG VESSELS. FACILITY: DEPARTMMET OF NURMAL PHYSIOLOGY, MEDICAL INSTITUTE, ROSTOV. UNCLASSIFIED

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USSR UDC 621.396.626 VODOP'YANOVA, V. V., Active Member of the Scientific and Technical Society of Radio Engineering, Electronics and Communications Imeni A. S. Popov "Noiseproofness of Carrier Telegraphy Signals in Communication Systems with a Protective Interval" Moscow, Radiotekhnika, Vol 27, No 1, 1972, pp 55-68 Abstract: A study was made of the problems of improving the noiseprocfness of reception of carrier telegraphy signals passing through a multibeam channel with additive white noise as a result of controlling the intersymbol interference by a protective interval. The transmission of binary carrier telegraphy signals with a duration T through a multibeam channel was considered with fading smooth in time and selective with respect to frequency. This model of the channel is convenient for analyzing the short-term functioning of the system under the condition that the channel parameters do not vary during the time interval equal to the duration of all the elementary signals interfering with the investigated symbol signal. In accordance with the procedure discussed previously [V. V. Vedop'yanova, et al., <u>Radiotekhnika</u>, Vol. 26, No 5, 1971], moments of the following type must be calculated first to determine pi error:  $m_{11}^{i} = \overline{|u_{1}|^{2}}, m_{00}^{i} = \overline{|u_{0}|^{2}}, m_{10}^{i} = \overline{|u_{1}|_{0}^{i}},$ 1/3 

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VODOP'YANOVA, V. V., Radiotekhnika, Vol 27, No 1, 1972, pp 65-68

 $+ \Phi \left[ \frac{\pi}{4d} (1+b) \right] \left[ \frac{2d^2}{\pi^2} + 1/4(1-b)^2 - b^2 \right] - \Phi \left[ \frac{\pi}{4d} (1-b) \right]$   $\left[ \frac{2d^2}{\pi^2} + 1/4(1-b)^2 \right] + b^2 + b/\rho ; m_{11}^{011} = m_{11}^{110} = \frac{m_{11}^{111} + m_{11}^{010}}{2}; m_{00}^{011} = m_{00}^{110} = \frac{m_{00}^{111} + m_{00}^{010}}{2}; m_{10}^{1} = 0 \text{ for all } i.$ 

The theoretical calculations are illustrated by graphs. There are values of b which are defined by the values of d and  $\rho$  which are optimal in the sense of minimal P error. The selection of b < 0.5 is inexpedient since in this case the required frequency band more than doubles, and the energy losses of the signal increase significantly, leading to inadmissible P with an increase in the order of the spaced reception L, the efficiency of reception with a protective interval increases. This is explained by a relative decrease in the effect of the additive noise on P by comparison with the interference noise. The same trend is observed with an increase in  $\rho$ . 3/3

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### CIA-RDP86-00513R002203520013-3

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USSR UDC: 621.396.626 VODOBLYANOVA, V. V., LIVSHITS, V. M. "Resistance to Interference in Reception of Frequency Telegraphy Signals in Communications Systems With 'Jumping' Frequency" Moscow, Radiotekhnika, Vol. 26, No 5, May 71, pp 49-54 Abstract: The method proposed by P. A. Bello and B. D. Nelin (Trans. IRE, v. CS-11, 1963, No 2) is used to determine the resistance to interference of communications systems with jumping frequency. The "jumping frequency method" is a procedure for correction of intersymbol interference. The essence of the method consists in a programmed change of the carrier frequency of the transmitted signal and a shift of the receiver passband. The resultant general re-lationships are illustrated by curves for the error probability as a function of the signal-to-noise ratio for l = 0 and 1 (where l is the number of pairs of "jumping" frequencies) and various rates of data transmission in the channel in the case of two branches of separation. A curve is also given for the signal-to-noise ratio necessary for a given error probability. 1/1 - 35 

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SUBJECT APEASPHYSICS TOPIC TAGS-GAS DIFFUSION, OXYGEN, CAOMIUM TELLURIDE, MASS SPECTROMETER, VISIBLE LIGHT CUANTUM BENERATOR, TEMPERATURE DEPENDENCE ECNTROL MARKINGNO RESTRICTIONS DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME1979/1959 STEP NCUR/0181/70/012/001/0022/0025				
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DREYZIN, R. S., VOD'YA, R. A., and ZOLOTARSKAYA, E. Ye., Institute of Virology imeni D. I. Ivanovskiy, Academy of Medical Sciences USSR, and Tallin Scientific Research Institute of Epidemiology, Microbiology, and Hygiene

"Long-Term Follow-Up of the Level of Antibodies to Adenoviruses in Institutionalized Children"

Moscow, Voprosy Virusologii, No 5, 1971, pp 590-596

Abstract: The formation of humoral immunity to six serotypes of adenoviruses (types 3 and 7 and latent types 1, 2, 5, and 6) was studied in 90 institutionalized Estonian children ranging in age from 2 months to 3 years. By age 3 the sera of all the children contained antihemagglutinins to types 3 and 7, and only 38 to 63% contained neutralizing antibodies to each of the latent types, despite the fact that the latter circulated in the group. There were numerous cases of natural reinfection with the same type of virus. The level of immunity markedly increased after reinfection as manifested by a sharp rise in antibody levels, persistence of high titers, and slow lowering of the levels. The results of the study suggest that immunity to adenovirus infection is maintained by infection with the commonest serotypes. Primary infections 1/2

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DREYZIN, R. S., et al., Voprosy Virusologii, No 5, 1971, pp 590-596

arose in the absence of antibodies in the serum, while reinfection occurred both in the absence of antibodies and in the presence of neutralizing antibodies to the latent types in titers of 1:10 and of antihemagllutinins to types 3 and 7 in titers ranging from 1:10 to 1:80. The complement-fixing antibodies were the first to disappear, then the antihemagglutinins, and last of all the neutralizing antibodies.

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DATE PUBLISHEDJAN70		
SUBJECT AREAS-PHYSICS		4 •/
TOPIC TAGSINHOMOGENEOUS PLASMA	, PLASMA OSCILLATION, PLASMA INTERACTION,	Ст. d
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MASHIN. B. G., S	OKOLOV, I. V., VODYANITSKIY, V. I., ZHENOVENKOV, S. I.	-
	quency Magnetron Oscillator"	
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USSR UDC 622.362.622.773 <u>VODYANITSKIY, VU. N.</u> , Candidate of Technical Sciences, TSELGI, and OSIPOV, YU. B., Candidate of Geological and Mineralogical Sciences, Moscow State University "The Effect of a Magnetic Field on the Breakdown of Iron Coated Quartz Aggregates in Water" Moscow, Steklo i Keramika, No 5, Nay 73, pp 8-10 Abstract: The authors study the magnetic properties of iron coated quartz aggre- gates and the structure of the iron bearing film on the surface of quartz particles. Lyuberetskiy quartz sand (SiO2 97 percent) was used in the study. The following is the chemical composition of the iron bearing film by percent: 30 SiO <sub>2</sub> , 26 Al <sub>2</sub> O <sub>3</sub> , 29 Fe2O <sub>3</sub> , 5 CaO, and 10 other. The magnetic susceptibility and magnetization of the sand and film were determined on magnetic scales at various temperatures and field intensity. At T=25°C the magnetic susceptibility of the sand does not depend on field intensity. The susceptibility of 200°C, magnetic susceptibility falls to $x=5.10^{-9}$ and the ferromagnetic component to zero. Variation in the intensity of magnetization of the iron bearing curve has an inflection in the 240-270°C		
	<ul> <li>VODYANITSKIY, YU. N., Candidate of Technical Sciences, TSLGI, and OSIPOV, YU. B., Candidate of Geological and Mineralogical Sciences, Moscow State University</li> <li>"The Effect of a Magnetic Field on the Breakdown of Iron Coated Quartz Aggregates in Water"</li> <li>Moscow, Steklo i Keramika, No 5, Nay 73, pp 8-10</li> <li>Abstract: The authors study the magnetic properties of iron coated quartz aggregates and the structure of the iron bearing film on the surface of quartz particles. Lyuberetskiy quartz sand (SiO<sub>2</sub> 97 percent) was used in the study. The following is the chemical composition of the iron bearing film by percent: 30 SiO<sub>2</sub>, 26 Al<sub>2</sub>O<sub>3</sub>, 29 Fe<sub>2</sub>O<sub>3</sub>, 5 CaO, and 10 other. The magnetic susceptibility and magnetization of the sand and film were determined on magnetic susceptibility of the sand does not depend on field intensity. At T=25°C the magnetic susceptibility of the sand does not depend on field intensity. The susceptibility of 700°C, magnetic susceptibility falls to x=5.10<sup>-6</sup> and the ferromagnetic component to zero. Variation in the intensity of magnetization of the iron bearing film were determined component to zero. Variation in the 240-270°C</li> </ul>	
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### VODYANITSKIY, YU. N., et al, Steklo i Keramika, No 5, May 73, pp 8-10

range. This is evoked by the phase transition of a strongly magnetic mineral. A scanning electron microscope was used for studying the structure and thickness of the film. In order to calculate the number of aggregates, the sand was processed with a saturated Na<sub>2</sub>SO<sub>4</sub> solution using the methodology for determining the cold resistance of concrete fillers (GOST 8269-64). The aggregates constitute 0.8-0.9 percent weight of the send. The iron bearing aggregates appear to be the sources for increased Fe<sub>2</sub>O<sub>3</sub> content. Iron bearing aggregate breakdown testing was done with the rid of a magnetic field in a Lyuberetskiy chamber. The results show that an alternating magnetic field of industrial frequency breaks down aggregates in water. This makes it possible to remove iron oxides from sand.

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USSR UDC 620.193.01	
VODYANOV, YU. M., KONYAYEV, B. YA., and FALICHEVA, A. I., Voronezh Polytech- nic Institute, Voronezh State Pedagogical Institute	
"Effect of Ultrasound on Cathodic Processes on Iron and Nickel"	
Moscow, Zashchita Metallov, Vol 8, No 3, May-Jun 72, pp 296-298	
Abstract: The authors studied the effect of an ultrasonic field on cathodic reactions under aeration conditions and in an inert gas atmosphere, specifically the behavior of iron (0.08 percent C) and nickel (NP-2) in ln. $H_2SO_4$ at $30^\circ$ .	
There was found to be a shift in the corrosion potential of both metals and a significant increase in corrosion losses in the aerated acid with the appli- cation of the ultrasonic field. This is due mainly to an increase in the acid ionization rate as a result of intensive stirring of the solution. Under the action of ultrasound the salf-dissolution rate of iron in the presence of air is about double that of nickel.	
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SUBJECT AREASCHEMISTRY			1 .		
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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002203520013-3 111 007 UNCLASSIFIED 2/2 PROCESSING DATE--020CT70 CIRC ACCESSION NO--AP0107069 ON A REVOLVING ELECTRODE WITH A CLEARLY EXPRESSED AREA OF CRIT. CURRENT. WITH ALL COMPDS. STUDIED ONE ELECTRON TRANSITION TAKES PLACE IN A NEUTRAL AND ALK. MEDIUY. ON THE POLAROGRAMS UNDER THESE CONDITIONS THERE IS ONLY ONE WAVE. IN AN ACIDIC MEDIUM 2,4,6-TRI-TERT-BUTYLPHENDL AND 2,6-DI-TERT-BUTYL-4-METHYLPHENGL SHOW 2 CLEARLY SPED. WAVES. THE NO. OF ELECTRONS CALCO. FROM THE IST WAVE IS CLOSE TO ONE. ELECTRODXIDN. OF 4,4 PRIME -THIOBIS(6-TERT-BUTYL-2-METHYLPHENDL), 4,4 PRIME -THIOBIS(6-TERT-BUTYL-3-METHYLPHENOL), 2,2 PRIME . -THIOBIS-6T-TERT-BUTYL-4-METHYLPHENOL), DICRESYLOLPROPANE ON A STATIONARY ELECTRODE AT PH 2 PRODUCES ONE WAVE CORRESPONDING TO A 2 ELECTRON TRANSITION. WITH 2, 2 PRIME #METHYLENEBISIG#TERT-BUTYL-4-METHYLRHENOL) IN AN ACIDIC MEDIUM, 2 BADLY SPED. WAVES ARE FOUND. WITH A REVOLVING ELECTRODE THE SEPN. OF THE WAVES IS RATHER DISTINCT, HOWEVER. ELECTROCHEM. GENERATION OF PHENOXYL RADICALS SHOWS THAT THE 2ND WAVE APPEARS DWING TO THE OXIDN. OF THE PHENOXYL RADICALS ADSORBED ON THE ELECTRODE. UNCLASSIFIED

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172 012 UNC TITLETHERMOPLASTIC COAL PRODUCT	LASSIFIED T-U-	PROCESSI	NG DATE	300CT70	
AUTHOR-(05)-SHUSTIKOV, V.I., VOE LERNER, V.G.		KLYAR, M.G.	. ARONOV₽	5.G.,	•
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DATE PABLISHED04FEB70					
SUBJECT AREASMATERIALS, EARTH S	CIENCES AND OCH	EANOGRAPHY			
TOPIC TAGSCUAL, THERMOSPLASTIC REACTION, PHYSICAL CHEMISTRY PR			NSATION		•
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212 012 UNCLASSIFIED PROCESSING DATE--- 300CT70 CIRC ACCESSION NO--AA0121863 ABSTRACT/EXTRACT-- (U) GP-O- ABSTRACT. THERMOPLASTIC COAL CAN BE OBTAINED IN A YIELD OF UP TO 95PERCENT OF THE COMBUSTIBLE MASS OF THE COAL BY HEATING A COAL WITH H CONTENT ABOVE 5.5 WT. PERCENT AT A TEMP. 10-20DEGREES BELOW THE TEMP. OF THE MAX. RATE OF DESTRUCTION FOR 5-20 MIN IN AN ATM. OF NATURAL OR COKE OVEN GAS, THEN RAPIDLY COOLING TO SMALLER THAN BODEGREES TO PREVENT THE DEVELOPMENT OF POLYCONDENSATION THE VOLATILE PRODUCTS OF B.P. BELOW 200DEGREES ARE REMOVED REACTIONS. PRIOR TO THE HOLDING PERIOD. IN AN EXAMPLE, A HUMIC COAL OF GRANULE SIZE 0.5-6.0 MM WAS HEATED TO 380-85DEGREES IN THE PRESENCE OF COKE OVEN GAS, AND HELD AT 395-400DEGREES FOR 20 MIN. THE PRODUCT HAD THE FOLLOWING PROPERTIES: MELTING TEMP. 235DEGREES, SOLY IN C SUB6 H SUB6 23.8, YIELD OF VOLATILES 36.2, COMPARED TO VALUES OF 393, 6.27, AND 45.87, RESP., BEFORE TREATMENT. FAGILITY: UKRAINIAN SCIENTIFIC RESEARCH INSTITUTE OF COAL CHEMISTRY. UNCLASSIFIED

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USSR UDC 546.77'183:651.183.9	
VINMER, I. K., VOICHINOVA. E. S., DENISOVA, N. E.	
"Ion-Exchange Properties of Zirconium 'Molybdophosphates' (ZMP)"	
Leningrad, Russian, Zhurnal prikladnoi khimii, vol 46, No 7, July 73, pp 1471-1475	
Abstract: Studies on the ion-exchange properties of ZMP as a function of the method of preparation showed that ZMP prepared at pH 3 was smaller in volume and had smaller pores than samples prepared at lower pHs (0.50-1.65). In the presence of heteropoly acid, ions that form slightly soluble molybdates were sorbed partially by a precipitation mechanism. But in the presence of phosphomolybdic heteropoly acid, sorption was chiefly by ion	
exchange. When the ZMP product was dried at temperatures higher than 150°C, the ion-exchange volume decreased markedly compared to that dried at lower temperatures. Above 400°C, there was a condensation of the phosphoric acid groups.	
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CIA-RDP86-00513R002203520013-3

# Phytology

USSR

UDC 557.37:581.1

VOLKOV, G. A., and LISYUK, L. A., Agrophysical Scientific Research Institute, Academy of Agricultural Sciences imeni V. I. Lenin, Leningrad

"Interpretation of the Bioelectrical Reaction of Plants to Stimulation Using the Effect of Light as an Example"

MOSCON, Doklady Akademii Nauk SSSR, Vol 197, No 6, 21 Apr 71, pp 1,435-1,437

Abstract: Previous studies have shown that the resting, potential (r.p.) of a cell and the potential difference (p.d.) between illuminated parts of plant leaf and the nonilluminated part of the leaf are changed through a number of stages. A corresponding multiphase change is observed in the sudden transition from illumination to darkness. The changes in r.p. and p.d. were close in magnitude and duration. This and the specific bioelectrical response of either plant cell or leaves of the entire plant to the same simulant led to the conclusion that there must be a fundamental mechanism involved in those phenomena. In this study, external and internal recording of electric potentials at Mitella plant cells suspended in standard solutions were determined. In another 18-day experiment two bean leaves were used and the effect of illumination on them was studied. It was found that the character of the 1/2

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e nin 13 s il s'est fil file. Festering Elektrika in som platter file in lighter USSR VOLKOV, G. A., and LISYUK, L. A., Doklady Akademii Nauk SSSR, Vol 197, No 6, 21 Apr 71, pp 1,435-1,437 course of the reaction at the Nitella is largely identical for both reactions. It was concluded that the processes involved in the adsorption of light by chloroplasts of illuminated photosynthesizing cells of the plant leaf affect the characteristics of the external cytoplash membrane of these cells. Otherwise the change in the p.d. recorded at the plant leaf reflects the change in the potential difference at the plasmalenna of the cells of the palisade parenchyma on the illuminated part of the leaf. It was concluded that any factors, among them temperature and chemical compounds, which can affect the properties of the plasmalemma of corresponding cells in any part of the plant (leaf, root, sten) nust bring about changes in the r,p. of the part of the plant which is removed from this part. 2/2 - 21 -

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002203520013-3 Ref. Code: Acc. Nr: 010017 Abstracting Service: UR0145 CHEMICAL ABST. 5-70 102377g Analysis of ignition in a diesel engine with accounting for chemical kinetic and physical factors. Voinov,  $A_{1,aN}$ ; Dzhanardana, Chetti V. (Mosk, Avto.-Dorozher fillst., Mescow, USSR). *Izv. Vyssh. Ucheb. Zaved.*, Mashinostr. 1970, (1), 76-81 (Russ). The dependence of temp, and pressure on the injection angle ( $\varphi$ ) was studied during cetane combustion in air in a diesel engine. The process was simulated on a computer and the fol-lowing effects ware considered, iccolling of the mixt due to the lowing effects were considered: cooling of the mixt. due to the evapn. and heating up of the fuel; fluctuations in the fuel concn. in the cylinder caused by kinetic and temp. inhomogeneities; In the cylinder caused by kinetic and temp. Inhomogeneities, addul. increase of temp, and pressure of the reacting gas mixt, during the compression. A quant, agreement with exp(, was reached. The ignition lag  $(\theta_i)$  increases with increase in  $\varphi$  and with decrease in the initial reaction velocity  $(\Delta)$ . The activation energy of the reaction increases with decrease in  $\varphi$  and with increase in  $\Delta$ . The ignition temp, 1100°K and the point at which pressure curves of the reacting mixt. and of the air crossed each Karel A. Hlavaty other occurred at the same  $\varphi$ . ye 11 1/1 REEL / FRAME 19841559

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त्रात्र स्वयंत्र प्रसार स्वयंत्र स्वयंत्र स्वयंत्र स्वयंत्र स्वयंत्र स्वयंत्र स्वयंत्र स्वयंत्र स्वयंत्र स्वयं स्वयंत्र स्वय USSR UDC 576.858.25.01(476) SAMOYLOVA, T. I., VOTYAKOV, V. I., MISHAYEVA, N. P., KHOD'KO, L. P. FEDORCHUK, L. V., VOINOV, I. N., and DANILOVA, G. M., Beldrussian Institute of Epidemiology and Microbiology, Minsk "Detection of Uukuniyemi Virus in the Belorussian SSR" Moscow, Voprosy Virusologii, No 1, 1973, pp 111-112 المتحقيق فتقتلا كالأراب للسأن وتتعيته والتكرو المساد Abstract: A strain of Uukuniyemi virus, named Belovezhskiy-Uukuniymi-302, was isolated for the first time in 1970-1971 in Bretskaya Oblast, Belorussian SSR from female Ixodes ricinus. The virus belonged to the ectromelia group, passed through 35-mm Seitz filters without significant titer changes, and apparently the virions had a supercapsular lipoprotein membrane. The virus was highly pathogenic to newborn white mice, much less so to 4-5 gm mice, and nonpathogenic to adult guinea pigs and white rats. Complement-fixation reactions with several specific sera confirmed that this virus belongs to the Uulamiyemd group. Apparently the Belovezhskiy microfocus from which the virus was obtained is part of an extensive focus spreading from the Baltic Sea south to Czechoslovakia and western Ukrainian SSR. 1/1

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