UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--ELECTRON EFFECTS OF N,ALKYL GROUPS IN 1,CHLOROALKANES STUDIED BY
NUCLEAR QUADRUPOLE RESONANCE, NQR -UAUTHOR-(03)-VORONKOV, M.G., FESHIN, V.P., POPOVA, YE.P.

COUNTRY OF INFO--USSR

SOURCE--LAIV. PSR ZINAT. AKAD. VESTES 1970, (2), 33-4

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, PHYSICS

TOPIC TAGS--ALKANE, CHLORINATED ALIPHATIC COMPOUND, ELECTRON DENSITY, NUCLEAR RESONANCE, ELECTRON DISTRIBUTION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0685

STEP NO--UR/0197/70/000/002/0033/0034

CIRC ACCESSION NO--APOll9593

UNCLASSIFIED

PROCESSING DATE-- 300CT70 UNCLASSIFIED 2/2 019 STRACT/EXTRACT--(U) GP-O- ABSTRACT. TRANSFER OF THE ELECTRON EFFECTS ALONG THE SATO. HYDROCARBON CHAIN WAS STUDIED IN A SERIES OF COMPOS. CIRC ACCESSION NO--APOL19593 ABSTRACT/EXTRACT--(U) GP-0-ME(CH SUB2) SUBN CL (N EQUALS 0-11) BY PRIME35 CL NZR SPECTRA AT ON PASSING FROM N EQUALS O TO N EQUALS I THE RESONANCE FREQUENCY, NU, IS HARPLY REDUCED OWING TO A LARGE INDUCTIVE EFFECT OF ET AS COMPARED TO ME GROUP ENHANCED ALSO IN THE FORMER COMPO. BY THE SIGMA, SIGMA CONJUGATION. FOR N EQUALS 2 THE NU VALUE BECOMES LARGER TO OSCILLATE AROUND THE AV. NU VALUE OF 33.0 MHZ WITH INCREASING N. HIGHER NU VALUES FOR EVEN THAN FOR ODD N'S ARE NOTICED. ANOMALOUS BEHAVIOR FOR 1, CHLOROBUTANE WAS OBSD. ALSO HERE (NU 33.255 MHZ). THE VALUE IS CONDITIONED BY THE ELECTRON D. DISTRIBUTION BETWEEN THE CL ATOM AND THE CLOSEST CH SUBZ GROUPS IN THE CHAIN. WHEN THE HYDROCARBON CHAIN BECOMES LONGER (N GREATER THAN 4) THE AV. NU VALUE AROUND WHICH THE OSCILLATIONS FACILITY: INST. ORG. SIN., RIGA. OCCUR GRADUALLY INCREASES. USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

1/2 015 UNCLASSIFIED PROCESSING DATE--23DCT70
TITLE--CHLORINE 35 NUCLEAR QUADRUPOLE RESUMANCE NOR OF 1, ALKANECARBOXYLIC
ACID CHLORIDES -U-

AUTHOR-(04)-VORONKOV, M.G., FESHIN, V.P., GONCHAROVA, I.N., MIRONOVA, L.I.

COUNTRY OF INFO--USSR

SOURCE--LATV. PSR ZINAT. AKAD. VESTIS 1970, (2), 35-7

DATE PUBLISHED---- 70

SUBJECT AREAS--CHEMISTRY, NUCLEAR SCIENCE AND TECHNOLOGY, PHYSICS

TOPIC TAGS--NUCLEAR RESONANCE, CARBOXYLIC ACID, ALKANE, CHLORINATED ORGANIC COMPOUND, SPECTRUM, ELECTRON TRANSFER, CONJUGATE BOND SYSTEM, CHLORINE ISOTOPE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0649

STEP NU--UR/0197/70/000/002/0035/0037

CIRC ACCESSION NO--APOLL9561

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

2/2 015 UNCLASSIFIED PROCESSING DATE--230CT70

CIRC ACCESSION NO--APOL19561 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. WITH THE PURPOSE TO LEARN THE NATURE OF THE ELECTRON TRANSFER THROUGH SATD. NYDROCARBON CHAIN THE PRIMESS CL NOR SPECTRA WERE STUDIED IN A SERIES OF COMPOS. OF THE TYPE X(CH SUB2) SUBN Y, WHERE X EQUALS ME OR COCL, N EQUALS 0-10; 12, 13, AND X EAUSLS Y EQUALS COCL, N EQUALS 0-8. THE SPECTRA HERE MEASURED AT TYDEGREESK ON A SPIN ECHO TYPE APP. THE RESONANCE FREQUENCY V FOR BOTH SERIES STUDIED ARE SIMILAR (SIMILAR TO 29 MHZ) AND LOWER THAN IN THE CORRESPONDING CL ANALOGS (X EQUALS ME, Y EQUALS CL, OR X EQUALS Y EQUALS THIS IS DUE TO THE GEMINAL CONJUGATION BETWEEN THE CL ATOM AND THE C:O GROUP IN THE ACYL CHLORIDES. THE RELATION V VS. N HAS A DIFFERENT CHARACTER FOR EITHER SERIES. IN DIACYL CHLORIDES THE V VALUE DECREASES ON PASSING FROM N EQUALS 0 TO N EQUALS 3 DWING TO A DECREASED MINUS 1 EFFECT. AT N EQUALS 3-8 IT OSCILLATES AROUND AN AV. AVLUE LARGER FOR EVEN AND SMALLER FOR ODD N VALUES. THE AMPLITUDE OF THESE OSCILLATIONS IN MONDACYL AND THE AV. V VALUE INCREASES WITH LENGTH OF THE CHAIN. CHLORIDES THE V VALUE OSCILLATES BEGINNING FROM N EQUALS O. EQUALS 1 V IS INCREASED CONTRARY TO THE EXPECTATIONS ON THE BASIS OF THEIR SIGMA VALUES. THIS IS DUE TO THE SIGMA, SIGMA INTERACTION EFFECT OVERWEIGHING THE PLUS I EFFECT OF THE ALKYL GROUP. WHEN PASSING FROM N EQUALS 1 TO 2 THE V VALUE BECOMES LOWER AS THE PLUS 1 EFFECT BECOMES INOPERATIVE THERE. ON FURTHER LENGTHENING OF THE CHAIN IN LARGER THAN 2) THE PERIODIC CHANGES OF V RESULT ONLY FROM THE DSCILLATION EFFECT FACILITY: INST. DRG. SIN., RIGA, USSR. WHICH IS REGULAR THERE.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

1/2 033

UNCLASSIFIED PROCESSING DATE--300CT70

TITLE--AERODYNAMIC STUDY OF THE REMOVAL OF DUST FROM GASES IN APPARATUS

CONSISTING OF AN EJECTOR AND A CYCLONE -U
AUTHOR--FESKOV, M.I.

COUNTRY OF INFO--USSR

SOURCE--KHIM. PROM. (MOSCOW) 1970, 46(1), 58-8

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MECH., IND., CIVIL AND MARINE ENGR, PHYSICS

TOPIC TAGS-NOZZLE, GAS, DUST TEST, CYCLONE SEPARATOR, COAGULATION, AERODYNAMICS

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1989/0925

STEP NO--UR/0064/70/046/001/0058/0059

CIRC ACCESSION NO--APOLO7454

----UNCLASSIFIED-

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

2/2 033 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--APO107454 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. A DUST REMOVER CONSISTING OF AN EJECTOR AND A CYCLONE IS DESCRIBED; THE EJECTOR SIMULTANEOUSLY COAGULATED THE DUST AND PUMPED PART OF THE GAS STREAM FROM THE CYCLONE. WATER WAS ATOMIZED INTO THE AIR JET IN THE EJECTOR NOZZLE. IN AMIS. CORRESPONDING TO 0.082 L.-M PRIMES: THE AIR VELOCITY IN THE NOZZLE WAS 60 M-SEC. THE DUST (CARBON BLACK WITH A PARTICLE SIZE OF LESS THAN 0.5-5.0 MU) CONCN. IN THE AIR WAS REDUCED FROM 500-2000 AT THE INLET TO 3-13 MG-M PRIMES AT THE OUTLET OF THE APP. AN EQUATION FOR THE EJECTION COEFF. ETA SHOWS THAT IT INCREASES WITH INCREASING DISTANCE BETWEEN THE NOZZLE AND THE AIR ROTATING PART ("ROSETTE"). UNCLASSIFIED

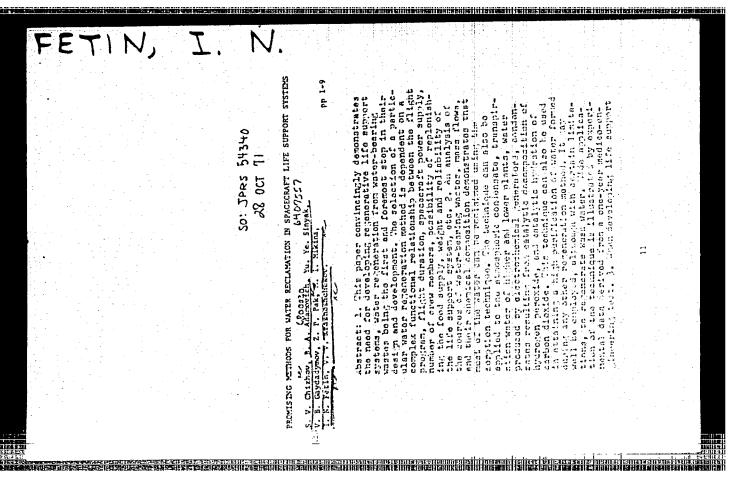
FET, Ya. I.

"Realization of Group Operations on a Rotary Conveyor Processor"

Sb. Tr. In-t Mat. Sib. Otd. AN SSSR [Collected Works of Institute of Mathematics, Siberian Division, Academy of Sciences, USSR], 1972, No 4(23), pp 104-115 (Translated from Referativnyy Zhurnal Kibernetika, No 4, 1973, Abstract No 4V615, by the author).

Translation: The possibility is studied of realization of certain massive computer operations on a rotary type conveyor processor. The high effectiveness of this processor is achieved by a special logic structure of the rotary arithmetic device. The performance of reductive and component-by-component operations on numerical vectors is studied in detail, as is the calculation of scalar derivatives. Time diagrams are presented. It is demonstrated that the rotary conveyor processor has a number of significant advantages over other known mass-operation arithmetic devices.

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In 1962, in Tripoli, the Seasten adopted a new program of development in directed toward organizing a national putt this program, in 1966 the Algerian was established.	3 Jul		*ubmitted 5 Movember 1975, and the Loft According to the Loft Office of WHO, in 1993 the 1612 5030 of whom inhobst the of the population lives in and Sanya.	PUBLIC HEALTH CARE IN THE ALGERIAN PROPER'S DEMICRATIC REPUBLIC ACT AND FACILIATION AND THE ALGERIAN PROPERTY OF DEMICRATIC REPUBLIC (Article by I.I. Rectambre, Their of Speid, Bydfone and Public Health Organization (Internation of Property (1)) Cyfchiu, corresponding member USSR Academy of Wedled S-ferroad, Internative, Medical Institute tre I.H. Sechenory Fonery, Spretukope Editional Property Medical No. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,				
in Tripoli, the Seasien Option of development in organizing a mational puot, in 1966 the Algerian	y 142, the period of therapeutic institutions in Algoria, but times and today, is concentrated in the cosstal region, in Algiers, Annaba, Constantine, Oran, Tiencen, and Tiri-Ouzou, or the period of French rule the rural population was praint sedical care whatsoever.	composition of the population is not very diversified minity by the Arab-Berber group. The Arab- extired obly; Algeria in the 7th century, "tradvally the trib in Berbers and Arab- disappeared. At present, in the Lairoum regions of creater Kabylia and in the western there are Berbers sho are primarily cattle hreeders. In least of the Algeria people began which ended with winterly to the Algeria people began which ended with winterly because the Algeria people began which ended with winterly theretary.	According to the information in the Annual of the European Reg loo of kWO, in 1993 the population of Alberia numbered 10,453,600, 1993 of whom inhabit the "prodesurt" one and the Sahara devert, the population lives in two of the 15 departments in the matien, 0 is sure.	ACT ALCERTAN PE ACT ALCE AND	50			
	peutic institute entrated in the ine, Oran, Tien rule the rura	the population is not very diversified on the Berber group. The Araba arrived on in the 7th century. Gradually the tribal rabe disappeared. At present, in the of Greater Kabylia and in the western ers who are primarily cattle breeders, crienced oppression by France. In 1894, people began which ended with victory (MII), allowed began which ended with victory	79] on in the Annurion of Algeri court" The int	ALCERIAN PROPERTS NEW Well History District of National New Ofensor (1) Contactory Tenens) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30: JPRS 53402			
of the National Council of Algeria which attention was given to measu blic health service. In accordanc Ministry of health and Population	tons in Algor constal regi- cen, and Tirl	Is not very d p. The Arab ury. Cradual d. At presen ylia and in t (martly cattle ston by Franc which ended w	Annual of the Euro Beria numbered 10, e and the Sabara d	DEPORTRATIC REPUBLIC Bygione and Public Bygione and Public Bow Redical Institu- rountre, Hossian				
ti of Algeria toen to measure In accordance d Population	institutions in Algeria, both in in the constal region, in major ran, Tlemcan, and Tizi-Duzou. the rural population was practically	The Araba arrived on "Yadvally the tribal to present, in the and in the sestern y cattle breeders." by France. In 1954, ended with victory	the European Regional wred 10,451,600, Sahara desert. Mast		UDC: 614.2(65)			

O9211r Infrared analyzer of milk. Zhidanovu. E. A. Felinovy, E. A. (Ves. Nauch. Issled, Inst. Moloch. From. Moscow, USSR). Melock. Prom. 1970, 31(1), 23-5 (Russ). A description of the Grubb Parsons IRMA spectrophotometer for the analof fat, protein, and lactose in milk. REEL/FRAME	
Soy, E.A. (Ses. Nauch-Prom. 1970, 31(1), 23-5 (Russ). A description of the Grubb Parson's IRMA spectrophotomieter for the anal. of fat, protein, and lactose in milk. Lola Brodfeld REEL/FRAME	
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1/2 037 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--SPATIAL DISPERSION EFFECTS IN THE OPTICS OF METALS -U-

AUTHOR-(02)-SILIN, V.P., FETISOV, E.P.

COUNTRY OF INFO--USSR

SOURCE--PHYSICA STATUS SOLIDI, 1970, VOL 39, NR 1, PP 49-60

DATE PUBLISHED ---- 70

SUBJECT AREAS -- PHYSICS

TOPIC TAGS--KINETIC EQUATION, PLASMA WAVE, METAL SURFACE PROPERTY, LIGHT RADIATION EFFECT, SURFACE ENERGY, ASYMPTOTIC PROPERTY, LIGHT DISPERSION

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1992/0083

STEP NO--GE/0030/70/039/001/0049/0060

CIRC ACCESSION NO--APO111277

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

CIRC ACCESSION NO--APOILIZIT

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE OBLIQUE INCIDENCE OF A LIGHT

WAVE ON A PLANE BOUNDARY IS CONSIDERED USING THE METHOD OF KINETIC

EQUATION. THE MAIN ATTENTION IS PAYED TO THE STUDY OF THE INFLUENCE OF

LONGITUDINAL PLASMA WAVE EXCITATION IN METALS ON SURFACE ENERGY LUSSES

OF LIGHT WAVES AND ON VOLUME LOSSES IN THE CASE OF P.POLARIZATION. THE

SIGNIFICANCE OF FERMI LIQUID EFFECTS IS CONSIDERED IN DETAIL. AN

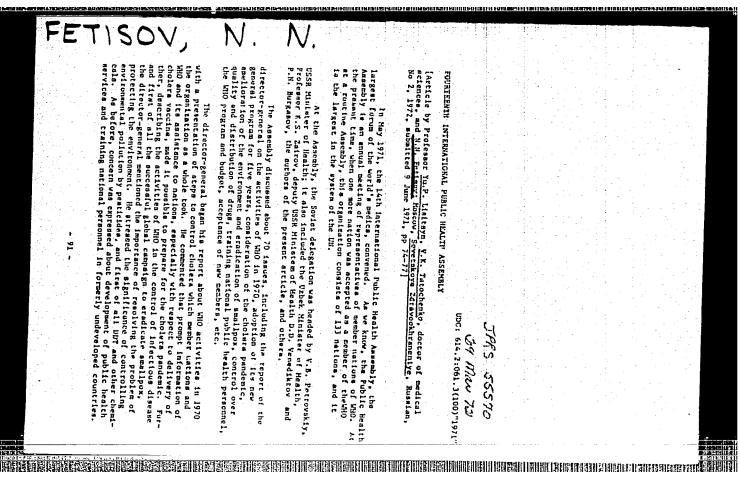
ASYMPTOTIC BEHAVIOUR OF THE FIELD INSIDE THE METAL IS OBSERVED FOR LONG

DISTANCES FROM THE BOUNDARY. FACILITY: P. N. LEBEDEV PHYSICAL

INSTITUTE, MOSCOW.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

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1/2 800 UNCLASSIFIED PROCESSING DATE--13NOV70 TITLE--NATURAL NIDALITY OF ERYSIPELOID AT THE SOUTH EAST OF THE RYAZAN DISTRICT -U-AUTHOR-(04)-KHCMYAKGV, A.I., SADOVNIKOVA, R.N., FETISOVA, N.A., FETISOV,

CCUNTRY OF INFO-USSR

SCURCE-ZHURNAL MIKROBIOLOGII, EPIDEMILOGII I IMMUNOBIOLOGII, 1970, NR 3, DATE PUBLISHED ----- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TCPIC TAGS-RODENT, TICK, ERYSIPELAX, GEOGRAPHIC LOCATION

CENTROL MARKING-NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1990/1478

STEP NO--UR/0016/70/000/003/0131/0133

CIRC ACCESSION NO--APOLO9538

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

UNCLASSIFIED PROCESSING DATE--13NOV70 CIRC ACCESSION NO--APOLO9538

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IN THE SASOV AND SHATSK REGION LOCALIZED AT THE SOUTH EASTERN PART OF RYAZAN DISTRICT (TSNA RIVER BASIN) THERE WAS ESTABLISHED A NATURAL NIDALITY OF ERYSIPELOID. A TOTAL OF 2,354 OF VARIOUS SPECIES OF RODENTS AND INSECTIVOROUS ANIMALS, 9,405 TICKS (DERMACENTOR PICTUS 4,375, IXODES RICINUS 5,030), AND 93 SAMPLES GATAINED FROM THE OBJECTS OF THE EXTERNAL ENVIRONMENT WERE EXAMINED IN 1962-1968. EIGHT CULTURES OF ERYSIPELOTHRIX RHUSIOPATHIAE. VARIANT MURISEPTICUM WERE ISOLATED (IN 1963-4, AND IN 1968-4) FROM THE ORGANS OF 4 ARVICOLA TERRESTRIS L., 13 MICROTUS DECONOMUS, 16 MICROTUS ARVALIS PALL., ONE MYCROMYS MINUTUS, AND ONE RATTUS NORVEGICUS BERKEN.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

UDC 517.948:513.88

FETISOV, V. G.

"Certain Nonlinear Operators in Modular Orlicz Spaces"

Uch. zap. Kemerov. gos. ped. in-t (Scientific Notes of the Kemerovov State Pedagogical Institute), No 23, 1970, pp 18-30 (from Referativnyv Zhurnal -- Matematika, No 7, July 71, Abstract No 7B865, by I. Shragin)

Translation: Properties of the integral operator $Au\left(\tau\right) = \int\limits_{\Omega} K\left(\tau,\,s,\,u\left(s\right)\right)\,ds$

are studied in spaces of the form L* ϕ (Ω) where ϕ is a ϕ -function (Referativnyy Zhurnal -- Matematika, 1961, Abstract 68414). Different theorems on the continuity and differentiability of operator A are proven. Also proven is a theorem on the conditions for the operation of the superscript operator. More general assumptions on the superscript operator are given in a work by the abstracter (Referativnyy Zhurnal -- Matematika, 1970, Abstract No 68747).

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Acc. Nr.: AA 0040447

Ref. Code: LLR 0482

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丁PRS 57248 UDC 621.316.722.9

KAZANTSEV, A. D., LUNEV, A. V., and FETISOV, V. I.

"Pulse Supply Source"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 1, 1970, p 52, Author Certificate No 258397 Class 21a4.

Abstract: An author certificate has been issued for a pulse supply source, which contains an amplifier, a relaxation master oscillator, and a protection circuit. In order to increase the stability of the output voltage and to decrease its owe intake power, a circuit is provided between the intake terminals, which contains a resistor and a capacitor connected in series. A dinistor is connected between them by its cathode, while its anode is connected to the base of the amplifier input transistor. In addition, the output transistor collector of the amplifier is loaded through the diode on the thyristor control electrode. Aload is connected between thyristor anodes and the bus bar.

Reel/Frame 19741939

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

:1 **USSR** UDC 621.316.722.9 D., LUNEV, A. V., and FETISOV. V. I. "Pulse Supply Source" Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 1, 1970, p 52, Author Certificate No 258397 Class 21a4. Abstract: An author certificate has been issued for a pulse supply source, which contains an amplifier, a relaxation master oscillator, and a protection circuit. In order to increase the stability of the output voltage and to decrease its owe intake power, a circuit is provided between the intake terminals, which contains a resistor and a capacitor connected in series. A dinistor is connected between

them by its cathode, while its anode is connected to the base of the

collector of the amplifier is loaded through the diode on the thyristor control electrode. Aload is connected between thyristor anodes

amplifier input transistor. In addition, the output transistor

and the bus bar.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

ka kendangan beragai kan kendangan beragai pangka beragai ang pangkan dalah beragai ing beragai da beragai kan Beragai peraksan kendan kan dan beragai pangkan pengkan beragai beragai beragai beragai beragai beragai beraga

1/2 030 UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--ALLERGENIC PROPERTIES OF THE COTTON AND FLAX SPINNING MILLS DUST

AUTHOR-(03)-FETISOVA, A.A., TITOVA, S.M., ALEKSANDROVA, O.G.

COUNTRY OF INFO--USSR

SOURCE--GIGIYENA TRUDA I PROFESSIONAL'NYYE ZABOLEVANIYA, 1970, NR 5, PP

DATE PUBLISHED---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--TEXTILE INDUSTRY, NATURAL FIBER, DERMATITIS, ALLERGIC DISEASE, ANAPHYLAXIS, INDUSTRIAL MEDICINE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/0692

STEP NO--UR/0391/70/000/005/0019/0022

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CIRC ACCESSION NO--APO117917

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

2/2 030 UNCLASSIFIED PROCESSING DATE--160CT70 CIRC ACCESSION NO--APO117917 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. INVESTIGATIONS INCLUDED CUTANEOUS SCARIFICATION TESTS IN WORKERS OF COTTON AND FLAX SPINNING MILLS, ANAPHYLAXIA WITH DESENSITIZATION EXPERIMENTS IN GUINEA PIGS, ALONG WITH STAGING OF INTRADERMAL AND SCARIFICATION TESTS IN SENSITIZED ANIMALS. WHEREFROM THE FOLLOWING INFERENCES ENSEW: I. INDUSTRIAL DUST OF COTTON AND FLAX SPINNING MILLS IS AN ALLERGEN; 2. POSITIVE SKIN TESTS ARE RECORDED NOT ONLY IN PATIENTS WITH IMPAIRED BRONCHOPULMONARY SYSTEM BUT ALSO IN PRACTICALLY HEALTHY SUBJECTS, WHICH, APPARENTLY, IS INDICATIVE OF A LATENT NATURE OF THE ALLERGY: 3. ANTIGENIC PROPERTIES OF THE INDUSTRIAL DUST ARE DUE TO THE PRESENCE THEREIN OF BACTERIA AND FUNGI; 4. THERE IS AN AFFILIATION BETWEEN THE DUST GENERATED AT COTTON AND FLAX SPINNING MILLS, CONDITIONED BY THE HUMOGENEITY OF THE FUNGAL AND BACTERIAL FLORA. FACILITY: MEDITSINSKIY INSTITUT, ALLERGOLOGICHESKAYA LABORATORIYA AMN INSTITUT GIGIYENY TRUDA I PROFZABOLEVANIY AMN SSSR.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

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LUKANINA, V. S., and FETTISOVA, I. A.

"Determination of Polychlorocamphene and DDT in a 60% Emulsified Concentrate of Polychlorocamphene with DDT"

V sb. Khim. sredstva zashchity rast. (Chemical Agents for Plant Protection -- collection of works), vyp 1, Hoscow, 1970, pp 83-88 (from RZh-Khimiya, No 11, Jun 72, Abstract No 11N400)

Translation: Polychlorocamphene is determined in a polydophen preparation by a photocolorimetric method based on the property of polyhlorocamphene of producing a strong yellow tint with thiourea in an alkaline nedium. The accuracy of determination of polychlorocamphene is ±1%. The DDT concentration in the compound is determined from the total chlorine by Schoenher ignition of the compound in oxygen.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

1/2 008 UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--NATURAL NIDALITY OF ERYSIPELOID AT THE SOUTH EAST OF THE RYAZAN
DISTRICT-U-

AUTHOR-(04)-KHCMYAKOV, A.I., SADOVNIKOVA, R.N., FETISOVA, N.A., FETISOV,

CCUNTRY OF INFO-USSR

SCURCE-ZHURNAL MIKROBIOLOGII, EPIDEMILOGII I IMMUNOBIOLOGII, 1970, NR 3, PP 131-133
DATE PUBLISHED-----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--RODENT, TICK, ERYSTPELAX, GEOGRAPHIC LOCATION

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1990/1478

STEP ND--UR/0016/70/000/003/0131/0133

CIRC ACCESSION NU--APO109538

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UNCLASSIFIED PROCESSING DATE—13NOV70 CIRC ACCESSION NO—APO109538

ABSTRACT/EXTRACT—(U) GP-O— ABSTRACT. IN THE SASOV AND SHATSK REGION LOCALIZED AT THE SOUTH EASTERN PART OF RYAZAN DISTRICT (TSNA RIVER BASIN) THERE WAS ESTABLISHED A NATURAL NIDALITY OF ERYSIPELOID. A TOTAL OF 2,354 OF VARIOUS SPECIES OF RODENTS AND INSECTIVOROUS ANIMALS, 9,405 TICKS (DERMACENTOR PICTUS 4,375, IXODES RICINUS 5,030), AND 93 SAMPLES OBTAINED FROM THE OBJECTS OF THE EXTERNAL ENVIRONMENT WERE EXAMINED IN 1962—1968. EIGHT CULTURES OF ERYSIPELOTHRIX RHUSIOPATHIAE. VARIANT MURISEPTICUM WERE ISOLATED (IN 1963—4, AND IN 1968—4) FROM THE ORGANS OF ARVICOLA TERRESTRIS L., 13 MICROTUS OECONOMUS, 16 MICROTUS ARVALIS PALL., ONE MYCROMYS MINUTUS, AND ONE RATTUS NORVEGICUS BERKEN.

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Automatic Control: Instruments

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USSR

unc: 681.325.65

PRANCISHVILI, I. V., POPOVA, G. M., USKACH, M. A., FETISOVA, S. V., MOSKOV, B. A., RUDERMAN, L. Z., KOPEYKIN, G. A., Institute of Automation and Remote Control (Technical Cybernetics)

"An Element of Homogeneous Structure"

USSR Author's Certificate No 287115, filed 11 Mar 69, published 18 Feb 71 (from RZh-Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 10, Oct 71, Abstract No 10B169 P)

Translation: Elements are known which can be used as cells of homogeneous structure in addition to other applications. A multifunctional element used as a cell of homogeneous structure has the disadvantage that only the outputs are commutated in such an element, and the logic inputs are not commutated. This limits its functional possibilities: e. g., the cell cannot be used for high-speed homogeneous structures with feed-through current lines through which signals propagate with practically no delay (bus structures). For coupling to the lines, the cells must have commutatable inputs and outputs: i. e., they must receive signals from the line and transfer signals to the line. In addition, in the case of external interference the information must be periodically transferred to the cell flip-flops to correct 1/3

PRANGISHVILI, I. V. et al., Soviet Patent No 287115

failures which may occur. In a multifunctional logic circuit in the multiple-transfer mode, all flip-flops are preset to the zero state each time, regardless of the presence of failures. This interrupts the function being realized by the structure each time, which is a considerable disadvantage of the logic circuit. The purpose of this invention is to extend the functional possibilities and increase the speed of the homogeneous structure. In the proposed element, this purpose is achieved by redistributing the control circuit between the inputs and outputs of the element without increasing the total number of components: i. e., some of the inputs and outputs are made commutatable, and some are not. Only the commutatable inputs and outputs are used in connecting the element to the lines. In connecting the elements to one another, the noncommutatable inputs of one element are connected to the commutatable inputs of the other, and vice versa. Thus between any elements of the structure (between adjacent cells or between the cells and the lines) a controllable data transmission channel is formed which may be switched on or off depending on the debugging code. The circuit for setting and resetting the flip-flops is made in such a way that when information is being transferred, the flip-flops are set immediately to a predetermined state without presetting to the zero state in order to correct failures. This procedure makes it possible to use a logic cell in high-2/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

USSR
PRANGISHVILI, I. V. et al., Soviet Patent No 287115

-speed bus structures, as well as to improve the interference suppression of the structure by means of multiple transfer. One illustration.

3/3

UDC 681.3.056

PRANGISHVILI, I. V., POPOVA, G. M., USKACH, M. A., FETISOVA, S. V., MOS-KOV, B. A., RUDERMAN, L. Z., KOPEYKIN, G. A., Institute of Automation and Remote Control (Technical Cybernetics)

"An Element of Homogeneous Structure"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, 1970, No 35, Soviet Patent No 287115, class 21, filed 11 Mar 69, published

Translation: This Author's Certificate introduces an element of homogeneous structure which contains AND, OR, AND-NOT and NOT circults, flip-flops, commutated inputs, noncommutated inputs, and inputs for horizontal and vertical tuning lines. As a distinguishing feature of the patent, the functional possibilities of the element are extended and the speed of the homogeneous structure is increased by connecting the inputs of the AND circuits for setting the flip-flops to one, to the horizontal and vertical tuning lines, while the inputs of the AND circuits for setting the flip--flops to zero are connected to the horizontal tuning lines, and through the NOT circuits to the vertical tuning lines. The outputs of the first two flip-flops are connected to the inputs of the OR circuits, which are

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PRANGISHVILI, I. V., et al., Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, 1970, No 35, Soviet Patent No 287115, class 21, filed 11 Mar 69, published 19 Nov 70, pp 62-63

also connected to the commutated inputs of the element. The outputs of these OR circuits are connected together with the noncommutated inputs of the element through an AND circuit to the input of a "mod 2 addition" circuit. Also connected to this addition circuit are the outputs of a third flip-flop. The outputs of the remaining flip-flops are connected to AND-NOT output circuits, whose inputs are also connected to the output of the "mod 2 addition" circuit and through a NOT element to one of the outputs of the structure element.

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UDC 632.95

ITSKOVA, A. L., GAR, K. A., MANDEL'BAUM, YA. A., FETISCYA V. F., and ORLOVA, V. I.

"An Arcaricide"

USSR Authors' Certificate No 267244, Cl. A Ol n 9/36; A Ol n 9/14, filed 16 Sep 68, published 17 Jan 72 (from RZh-Khimiya, No 14, 25 Jul 72, Abstract No 14N468 by T. A. Belyayeva)

Translation: For the control of spider mites the authors suggest application of a thiophosphate with the general formula $(RO)(R'R''N)P(0)SCH_2CON(Et)SO_2Ne$ (I) (R = Me or Et; R' = Me, Et, Pr; R'' = H, Me, Et). Results of I tests on spider mite specimens are presented.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

PROCESSING DATE--17JUL70 UNCLASSIFIED. TITLE-ADRENALIN, ACPACEENALIN AND THEIR PREDECESSOR EXCRETION LOOPA AND DOPAMIN) IN PATIENTS WITH MIGRAINE -U-AUTHOR--GCLOMAN, N.B., MATLINA, E.SH., FETS, A.N. CCUNTRY OF INFO--USSR SCURCE-ZHURNAL NEVRCPATCLOGII I PSIKHIATRII, 1970, VOL 70, NR 2, PP 199-203 DATE PUBLISHED -----70 SUBJECT AREAS--RICLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--HEADACHE, ADRENALINE, NORACRENALINE, URINE CENTROL MARKING-NO RESTRICTIONS DCCUMENT CLASS--UNCLASSIFIED STEP NC--UR/0246/70/070/002/0199/0203 PRCXY REEL/FPAME--1979/0670 CIRC ACCESSION NO--APOC47175 unclassified

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Acc. Nr: AP0047175

Ref. Code: UR 0246

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PRIMARY SOURCE: Zhurnal Nevropatologii i Psikhiatrii, 1970,

Vol 70, Nr 2, pp 199-163

ADRENALIN, NORADRENALIN AND THEIR PREDECESSOR EXCRETION (DOPA AND DOPAMIN) IN PATIENTS WITH MIGRAINE

N. B. Goldman, E. S. Mallina and A. N. Fets

The authors conducted an investigation of 25 patients with migraine, where they studied the diurnal urine excretion (as well as in partial excretion of urine) of adrenaline, noradrenalin, dopamin and dopa in the intercrises period, during crises, as well as during the introduction of insulin. It was possible to show that in the intercrises period the excretion of these substances did not disclose significant differences compared to normals. It was demonstrated that there was only a decrease in the noradrenalin—adrenalin excretion ratio. In the period prior to a crisis there was a decrease in adrenalin excretion. In the crucial period of the crisis adrenalin excretion rose significantly. In those cases where during the introduction of insulin a migrainous attack ensued there was an increased adrenalin excretion which exceeded the changes seen in normals. The achieved results give grounds to assume that the changed adrenalin content plays a certain role in the development of a migrainous attack.

REEL/FRAME 19790670

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Microbiology

USSR

UDC 576.851.45.077.3:576.8.073.4

URALEVA, V. S., FETSAYLOVA, O. P., MYASNIKOVA, G. S., DASHKEVICH, L. V., and AZARTSEV, A. N., Rostov-na-Donu Scientific Research Antiplague Institute and Poltavskaya, Yaroslavskaya, and Orlovskaya Oblast Sanitary Epidemiological Stations

"Results Obtained by Means of Fluorescent Antibodies During Investigation of Natural Foci of Tularemia"

Moscow, Laboratornoye Delo, No 1, 1973, pp 57-58

Abstract: Spleen, blood, lymph node, liver, and lung smear prints of 13 infected laboratory mice were treated with luminescent tularemia serum. A large number of brightly luminescent microbes were found in the samples of seven animals. Bacteriological investigations yielded tularemia pathogen from all 13 animals. Luminescent bodies resembling tularemia microbes were also observed in two additional mice infected with Dermacentor pictus ticks. However, no tularemia bacteria were isolated from these animals. It was astablished that smear prints of internal organs remain suitable for treatment with luminescent serum for up to 6 months if kept in a refrigerator and for up to 3 months if kept at room temperature. The method of contrasting specific luminescence yields good results only if bovine albumin tagged with fluorothiocyanate is used. Albumin tagged with isothiocyanate is ineffective.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

1/2 022 UNCLASSIFIED PROCESSING DATE--0200170 FITLE--VERTICAL PROFILES OF LONG WAVE RADIATION FLUXES IN A CLOUDY ATMOSPHERE -U-AUTHOR-(031-GOISA, N.I., OPPENGEIA, V.D., FEYGELSON, E.M.

CCUNTRY OF INFO--USSR

SOURGE-AKADEMIIA NAUK SSSR, IZVESTIIA, FIZIKA ATMOSFERY I DKEANA, VOL 6 FEB 1970, P 198-203 DATE PUBLISHED-----70

SUBJECT AREAS -- ATMOSPHERIC SCIENCES

TOPIC TAGS-LUNG WAVE RADIATION, VERTICAL PROFILE, RADIATION FLUX, ATMUSPHERIC CLOUD, ATMOSPHERE, RADIATIVE HEATING, RADIATIVE COOLING

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFTED PROXY REEL/FRAME--1989/1905

STEP NO--UR/0362/70/006/000/0198/0293

CIRC ACCESSION NO--AP0108235

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

PROCESSING DATE-+020CT70 UNCLASSIFIED CIRC ACCESSION NO--APO108235 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. MEASUREMENT OF UPWARD AND DOWNWARD LONG WAVE RADIATION FLUXES UNDER CLOUDY CONDITIONS DURING DAYTIME AND NIGHTTIME HOURS. A SHARP CHANGE IN THE DOWNWARD FLUX UPON ENTRY INTO THE CLOUDY LAYER FROM ABOVE IS NOTED. WHILE THE PROFILE OF THE UPWARD FLUX IS EVERYWHERE SMOOTH. ON THE BASIS OF 25 VERTICLE PROFILES OF THE EFFECTIVE RADIATION IN THE CASE OF SINGLE LAYER STRATUS CLOUDS, A MODEL OF THE RADIATION TRANSPORT IN AN AVERAGE STRATUS CLOUD IS CONSTRUCTED. IT IS SHOWN THAT THE RADIATION FLUX DIVERGENCE IN THE ATMOSPHERE ABOVE THE CLOUD IS SIMILAR TO THE DIVERGENCE UNDER CLEAR SKY CONDITIONS. WITHING THE CLOUD, THE MOST ACTIVE AREA FROM THE RADIATION STANDPOINT IS THE UPPERMOST 50 M LAYER. IN THYUNDERLYING 50 M LAYER THE RADIATION FLUX DIVERGENCE DECREASES FIVEFOLD. CONSIDERABLE RADIATIVE COOLING PENETRATES DOWN TO 150 M. THEN FOLLOWS A LAYER WHERE THE FLUX DIVERGENCE IS CLOSE TO ZERO. FINALLY, NEAR THE LOWER BOUNDARY OF THE CLOUD RADIATIVE HEATING IS OBSERVED.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

E72 019 UNCLASSIFIED

PROCESSING DATE--13NOV70

TITLE--SOME FEATURES IN MODERN PHYSIOLOGY OF HIGHER NERVOUS ACTIVITY -U-

AUTHOR -- FEYGENBERG, I.M.

F

CCUNTRY OF INFU--USSR

SOURCE--VESTNIK AKADEMII MEDITSINSKIKH NAUK SSSR, NOC 25, NO 1, 1970, PAGES 59-62

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--PSYCHOLOGY, CONDITIONED REFLEX, NEUROPHYSIOLOGY

CCNTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/0960

STEP NO--UR/0248/70/025/001/0059/0062

CIRC ACCESSION NO--APO130017

UNCLASSIETED.

PROCESSING DATE--13NOV70 UNCLASSIFIED CIRC ACCESSION NO--APO130017 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IN ITS OVER 50 YEAR EXISTENCE PHYSIDLOGY OF HIGHER NERVOUS ACTIVITY BRILLIANTLY FOUNDED THROUGH THE WORKS OF I. P. PAVLOV HAS UNDERGONEDA RATHER SUBSTANTIAL EVOLUTION. PARTICULARLY SIGNIFICANT CHANGES OCCURRED IN THIS FIELD IN THE LAST. DECADE. FIRST OF ALL WE MUST NOTE THE RAPPROCHEMENT OF CONCEPTS OF PHYSIOLOGY OF HIGHER NERVOUS ACTIVITY AND PSYCHOLOGY, A RAPPROCHEMENT THAT IS SO CLOSE THAT AT TIMES IT IS EVEN DIFFICULT TO DRAW THE LINE BETWEEN THE TWO. THIS APPROXIMATION IS NOW A VERY VALID AND FRUITFUL PHENOMENON, JUST AS IT WAS FRUITFUL, AT THE EARLY STAGES OF DEVELOPMENT OF PHYSIOLOGY OF HIGHER NERVOUS ACTIVITY, FOR I. P. PAVLOV TO REJECT THE USE OF PSYCHOLOGICAL TERMS TO DESCRIBE AND INTERPRET PHYSIOLOGICAL FACTORS OBTAINED IN THE LABORATORY. AT THIS STAGE, THE USE OF TERMS OF INTROSPECTIVE PSYCHOLOGY (SUCH AS: THE DOG REALIZED THAT) COULD DNLY HAVE CONFUSED THE ISSUE, CREATING THE ILLUSION OF AN EXPLANATION WHERE THERE WAS NONE. FRUITFUL WAS THE TENDENCY OF I. P. PAVLOV, AS HE INVATED THE AREA OF MENTAL PROCESSES, TO BE GOVERNED ONLY ON CLEARLY FORMULATED PHYSIOLOGICAL CONCEPTIONS OF REFLEX ACTIVITY AND TO INTRODUCE NEW CONCEPTS ONLY WITH EXTREME CAUTION, ONLY WHERE THERE WAS NO WAY TO MAKE ENDS MEET, AND BASING HIMSELF UNLY ON ALKEADY ESTABLISHED CONCEPTIONS. PRECISELY IN THIS MANNER DID THE CONCEPT OF CONDITIONED REFLEX ARISE, AS EFFECTED BY THE REFLEX ARC WHICH CLOSES UNDER SPECIFIC CONDITIONS. FACILITY: CENTRAL INSTITUTE FUR THE ADVANCED TRAINING OF PHYSICIANS, MOSCOW.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

USSR

FEYGENBERG, I. M.

Mozg. Psikhika, Zdorov'ye (The Brain, Psychology, and Health), Moscow, Izdatel'stvo Nauka, 1972, 111 pp

Translation: Annotation: The book by Prof I. M. Feygenberg acquaints the reader with various aspects of human mental activity in popular form. Special attention is devoted to probabilistic predictions of the psychic capabilities of the brain, the study of which is the principal subject of the author's research. Some problems of the psychophysiology of perception, emotions, and memory and certain problems of engineering psychology and pathopsychology are treated in the book.

The book is written for a wide range of readers. Table of Contents: Page From the Author 3 About the Brain 5 Interaction of Analyzing Systems in the Brain 12 Sleep -- Also the Work of the Brain 20 Man "Puts the Finishing Touches" on the Sensory Organs 27 The Ability to Look Into the Future (Probabilistic Prediction) 33 What Troubles US? 41 Reaction Time 47

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FEYGENBERG, I. M., Izdatel'stvo Nauka, 1972, 111 pp
The Nemory and Probabilistic Prediction 59 Prediction Errors 74
Psychic Impairment and Probabilistic Prediction 79 Psychology and Body Health 92 The Work of the Brain Can be Controlled 103
Bibliography 109
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USSR

UDC 669.295.004.2

FEYGIN, B. G.

"Hydrogen Chloride Air Pollution Resulting from Production of Titanium"

Tr. In-ta krayev. patol. KazSSR, (Works of the Institute of Regional Pathology, Kazakh SSR), 1970, Vol. 19, pp. 51-54, (from RZh-Metallurgiya, No 2, 1971, Abstract No. 2G198 by A. Tseydler)

Translation: Considering the corrosive nature and extreme toxicity of TiCl4 and HCl, their content in the air in production rooms must be decreased to below the permissible concentration, which requires careful sealing of technological equipment.

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USSR

UDC 615.616.24-003.656.6

FEYGIN, B. G.

"Toxicology of Titanium Welding Acrosol"

Tr. NII krayev. patol. KazSSR (Works of the Scientific Research Institute of Marginal Pathology of the Kazakh SSR), 1972, No 23, pp 143-146 (from RZh--Farmakologiya. Khimioterapevticheskiye Sredstva. Toksikologiya, No 3, Mar 73, Abstract No 3.54.894)

Translation: Over a 12 month period, rats were administered 50 mg of titanium welding aerosol containing Ti, Al, Si and FE from one to ten percent; Mg, Pb, Ni, Cr, Cu, Cd and Zn from 0.1 to 1 percent; Mm from 0.01 to 0.1 percent once intratracheally. After one month, interstitial pneumonia of a diffuse nature was observed (proliferation of the histiocytic and lymphoid elements, in the interalveolar septa, the bronchial and vascular walls, and so on). After 6 months the pneumonia acquired a diffuse-interstitial nature; after 9 months the phenomena of peribronchial perivascular fibrosis were added. After 12 months all the described phenomena were redoubled.

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UDC 615.616.24-003.656.6

FEYGIN, B. G., KHAMITOVA, V. Z., ZIZANGIROVA, L. A.

"Problem of the Effect of Titanium Admixture in Quartz on the Development of Silicosis"

Tr. NII krayev. patol. KazSSR (Works of the Scientific Research Institute of Marginal Pathology of the Kazakh SSR), 1972, No 23, pp 147-151 (from RZh--Farmakologiya, Khimioterapevticheskiye Sredstva. Toksikologiya, No 3, Mar 73, Abstract No 3.54.893)

Translation: A dose of 0.5 ml of suspension containing 25 ml of Ti and 25 mg of quartz (first group) or 30 mg of quartz (second group) was administered daily intratracheally to male rats for 12 months. After one month, fine-focal inflammatory alterations of the interstitial type with round-celled and histocytic infiltration of the alveolar septa were observed in the lungs of the animals of the first group. After six months the inflammatory alterations in the lungs were accompanied by the development of large centers of cellular proliferation, nodular and perivascular cellular accumulations. After 9 and 12 months, attenuation of the inflammatory process was noted with normalization of the histologic picture 1/2

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USSR

FEYCIN, B. G., et al., Tr. NII krayev. patol. KazSSR, 1972, No 23, pp 147-151

of the lungs. In the animals of the second group, the development of the typical silicosis picture was observed: infiltrative-proliferative part in the septum inter-alveolarium, then individual silicotic nodes of the lymphocytes, epithelial cells, compressed vessels and bronchi, then generalization of the process with partial deterioration of the lung tissue. It is considered that Ti does not intensify the silicosogenic properties of Si.

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USSR

UDC 669,295,004,2

FEYGIN. B. G., BELOSKURSKAYA, G. I., POMAZKINA, L. G., OSIPOVA, I. A.

"The Problem of Labor Hygiene in Titanium Production"

Tr. In-ta krayev. patol. KazSSR, (Works of the Institute of Regional Pathology, Kazakh SSR), 1970, Vol 19, pp 55-57, from RZh-Metallurgiya, No 2, 1971, Abstract No 2G199 by A. Tseydler)

Translation: Preliminary data on the general morbidity of workers in titanium production indicate that there are harmful factors influencing the morbidity of the respiratory organs and nasopharynx.

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USSR

UDC 669.295.004.2

BELOSKURSKAYA, G. I., and FEYGIN B. C.

"Morbidity of Titanium Production Workers at the Ust'-Kamenogorskiy Titanium-Magnesium Combine"

Tr. In-ta krayev, patol. KazSSR (Works of the Institute of Regional Pathology, Kazakh SSR), 1970, 19, pp 247-249 (from Zh Metallurgiya, No 1, 71, Abstract No 1G197 by A. Tseydler).

Translation: Studies of the general and occupational morbidity of workers involved in titanium production have shown that the greatest production dangers are to be found in the air of the working zone of the TiCl, shop, where the concentration of harmful chemical components significantly exceeds the permissible norm.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

USSR

UDC 621.383.292.8

SOSFENOV, N. I., FEYGIN, L. A.

"Detector of Soft Roentgen Radiation Based on FEU-85 Photomultiplier"

V sb. Apparatura i metody rentgenovsk. analiza (Apparatus and Methods of Roentgen Analysis--Collection of Works), Issue 7, Leningrad 1970, pp 66-71 (from RZh--Elektronika i yeye primeneniye, No 5, May 1971, Abstract No 5A189)

Translation: A scintillation detector based on an improved model of the FEU-85 is described. The new photomultiplier (FEU) differs from the FEU-35 (sic) by a more rugged construction and a higher amplification factor (10^7 instead of 10^5) thanks to the addition of two dynodes. The possibility is mentioned of registration of Roentgen radiation of high intensity by use of a small load resistance. 3 ill. 3 ref. N. S.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

UNCLASSIFIED PROCESSING DATE--20NOV70
TITLE--X RAY METHOD FOR DETERMINING THE GAPS BETWEEN HEAVY ATOMS IN
MACREMOLECULES IN SULUTION AND ITS USE FOR STUDYING GRAMICIDIN S
AUTHOR-(03)-VAYNSHTEYN, B.K., SUSFENDY, N.I., FEYGIN, L.A.

CCUNTRY OF INFO--USSR

SOURCE--DOKL. AKAD. NAUK SSSR 1970, 190131 574-7

DATE PUBLISHED ---- 70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-MACROMOLECULE, X RAY STUDY, MGLECULAR STRUCTURE, IODINATED ORGANIC COMPCUND, ORGANOMERCUTY COMPCUND, ANTIBIOTIC, CRYSTALLOGRAPHY/(U)GRAMICIDIN S ANTIBIOTIC

CENTREL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1587/0179

STEP NO--UR/0020/70/190/003/0574/0577

CIRC ACCESSION NO--ATOLO3858

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--20NOV70 CIRC ACCESSION NU--ATOLO3858

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IT IS POSSIBLE TO DET. THE MUTUAL POSITION OF HEAVY ATOMS FOR LIMITING DISORDERED SYSTEMS SUCH AS SOLNS. OF MAGROMUS. WHEN THE DIFFRACTION PICTURE IS POOR AND CENTERED IN THE REGION OF SMALL ANGLES. THE METHOD WAS CHECKED EXPTL. FOR SOLNS. OF DIIODOANTHRAQUINONE IN H SUB2 SO SUB4, AND THE DISTANCE BETWEEN THE HEAVY MCLS., CALCO. FROM THE POSITION OF THE MAX., IS 9.4 ANGSTROM WHICH AGREES WITH CRYSTALLOGRAPHIC DATA. FURTHER, THE METHOD WAS USED FOR GRAMICIDIN S DERIVS.: IODOGRAMICIDIN HYDROCHLORIDE AND MERCURIGGRAMICIDIN HYDROCHLORIDE. THE DISTANCES OBTAINED FROM THE MAX. ARE 9.7 AND 10.4 ANGSTROM, RESP.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

UDC:

51

USSR

FEYGIN, L. I.

"Use of the Method of Statistical Modeling for Determining the Optimum Frequency of Schedule Correction"

V sb. Operativn. upr. proiz-vom (Operational Control of Production-collection of works), Moscow, "Nauka", 1971, pp 60-67 (from FZh-Kibernetika, No 4, Apr 72, Abstract No 4V451)

Translation: The period of schedule correction is determined under the condition that some quantity called the scheduling error not exceed the permissible value with a predetermined probability. A computational procedure is outlined which is based on statistical modeling. A flow-chart is presented for the modeling algorithm. Author's abstract.

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LEJECT AREAS-BIOLOGICAL AND ME	DICAL SCIENCES		31	
CPIC TAGS-INSULIN. DRUG EFFECT. CHEMISTRY, LIPID METABOLISM, DI		' ACID. BLOOD		
NTROL MARKINGNO RESTRICTIONS				
CUMENT CLASSUNCLASSIFIED GXY REEL/FRAME1982/0384	STEP NCUR/C475/70	0/000/003/00	77/0025	
RC ACCESSION NOAPOC51901		o, 440, 002, 00.	22/0035	

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

Acc. Nr: AP0051901

Ref. Code: UP0435

PRIMARY SOURCE: Vrachebnoye Delo, 1970, Nr 2 , pp32-35

ON THE EFFECT OF INSULIN ON THE LIPID METABOLISM IN DIABETES MELLITUS

M. B. Feygin (Kiev)

Determination of the blood bethalipoproteid concentration, non-esterised fatty acids concentration, lipoproteid lipase activity and total lipolytic activity indicates that patients with diabetes mellitus show hyperbethalipoproteidemia, increased content of blood non-esterised fatty acids, decreased total lipolytic activity of the blood and decreased lipoproteid lipase activity.

Administration of insulin in diabetes mellitus reduces the non-esterised fatty acids concentration, increases the total lipolytic activity of the blood, but increases the concentration of betha-lipoproteids. No decrease of the betha-lipoid concentration occurred when insulin was combined with lipocain.

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REEL/FRAME 19820384 4

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Forming

USSR

UDC 669.717:669-42

YERMANOK, M. Z., FEYGIN, V. I.

"Production of Aluminum Alloy Sections"

Moscow, Proizvodstvo profiley iz alyuminiyevykh splavov (cf. English above), Metallurgiya, 1972, 271 pp (from Proizvodstvo profiley iz alyuminiyevykh splavov, pp 2-3)

Translation: The assortment and extrusion systems are presented for the following sections: continuous cross section, hollow and variable cross section of aluminum alloys. A study was made of the characteristic features of flow of the metal and calculation of the force conditions during the extrusion of sections and also the problems of calculation, planning and design of the extruded tool

The advanced techniques for extrusion, heat treatment, straightening and finishing the sections are described. The primary data with respect to deformable aluminum alloys and also steel for manufacturing the extrusion tool are presented.

This book is intended for engineers of the extrusion shop and the researchers and workers in the branches of industry in which aluminum alloy sections are used. It can be useful to students and teachers at the institutions of higher learning and the specialized secondary schools. There are 69 tables, 148 illustrations and a 137-entry bibliography.

YERMANOI	(, M. Z., et al. Proizvodstvo profiley iz alyuminiyevykh splavo	ν.	
	giya, 1972, 271 pp	7	
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USSR

UDC: 621.396.6-181.5(08B.8)

FEYGINOV, N. I., GALKOV, V. S.

"A Method of Making Hybrid Integrated Circuits"

USSR Author's Certificate No 283340, filed 13 Jun 69, published 3 Dec 70 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6V199 P)

Translation: A method is proposed for making hybrid integrated microcircuits which is based on producing passive elements on a dielectric plate, connecting the active elements to current-conducting circuit tracks, and dividing up the plate into functional modules. To ensure orientation of the active elements with respect to the points of connection and to automate the assembly process, the active elements are presoldered to lead groups made in a metal plate, from which the active elements are then cut out in sequence together with the leads and attached to the current-conducting circuit tracks while simultaneously moving the plate together with the active and passive elements through a step equal to the spacing of the elements and points of lead attachment.

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- 122 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

USSR UDC: 621.3.049.73

FEYGINOV, N. I., GALKOV, V. S.

"A Method of Making Hybrid Integrated Circuits"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 31, 1970, Soviet Patent No 283340, Class 21, filed 13 Jun 69, p 54

Abstract: This Author's Certificate introduces a method of making hybrid integrated circuits based on producing passive elements on a dielectric plate, connecting active elements to the current-conducting tracks of the circuit, and dividing the plate into functional modules. As a distinguishing feature of the patent, provision is made for orienting the active elements with respect to the points of attachment, and the assembly procedure is automated by presoldering the active elements to groups of leads on a metal plate from which the active elements are then cut out one by one together with the leads and attached to the current-conducting tracks of the circuit while simultaneously shifting the plates with the active and passive elements through a distance equal to the spacing between the elements and the lead attachment points.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

USSR

UDC: 621.373.42(088.8)

TAYBERG, N. O., SULIM, V. A., FEYNBERG, S. Ya.

"A Self-Excited Harmonic Signal Oscillator"

USSR Author's Certificate No 282439, filed 12 May 68, published 11 Dec 70 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6D341 P)

Translation: This Author's Certificate introduces a self-excited harmonic signal oscillator in a three-point circuit based on a vacuum tube or semiconductor device. The oscillator contains a tank circuit with electronic frequency tuning by connecting a varicap in the tank. The varicap is connected in turn to a source of controlling voltage. To reduce the nonlinearity of frequency response with tuning over a wide range, the oscillator is equipped with an additional varicap which is connected through a threshold semiconductor diode to the source of controlling voltage, and through a resistive voltage divider to a source of DC voltage which blocks the threshold diode in the controlling voltage circuit. Two illustrations. V. P.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

USSR

UDC: 621.396.621.55:621.374.33(088.8)

TAYBERG, N. O., SULIM, V. A., FEYNBERG, S. Ya.

"A Transistorized Time Discriminator"

USSR Author's Certificate No 270796, filed 12 May 68, published 11 Aug 70 (from RZh-Radiotekhnika, No 2, Feb 71, Abstract No 2D53 P)

Translation: This Author's Certificate introduces a transistorized time discriminator of a periodic pulse signal. The unit contains two identical conversion channels with detector stages, diode-regenerative comparators and flip-flops connected in each of them. To increase the slope and improve the linearity of the discrimination characteristic, a selecting stage is included in each discriminator channel, and a pulse-duration converter is connected to the output of this selecting stage. The outputs of the channels are connected to an output mixer — a device which shapes pulses of normalized amplitude; the polarity of these pulses determines the sign, and their duration determines the magnitude of the time mismatch.

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- 59 -

Theoretical Automation

USSR

EISENSTADT, V. S., LISKOVETS, V. A., FEINBERG, V. Z. (Mathematics Institute, Belorussian Academy of Sciences)

"Solution of the Problem of Optimal Distribution of Memory Between Working Area of Subroutines"

Minsk, Vestsi Akademii Navuk BSSR, Seryya Fizika-Matehmatychnykh Navuk, No 6, 1970, pp 12-26

Abstract: Let S_1 , S_2 , ..., S_n be the set of subroutines (procedures) of a program S; and r_1 , the volume of the working area of S_1 . One subroutine during the course of its operation can be changed to (initiate) another subroutine. In that case their working areas cannot overlap. The authors study the problem of distributing the memory between working areas of subroutines S_1 , S_2 , ..., S_n in such a way as to minimize the total number of storage locations occupied by them.

The program S is given by an oriented graph G for the initiation of subroutines, to the vertices of which are assigned the weights r_1 , r_2 , ..., r_n . The sum of the weights for the various vertices is called the "weight of the oriented chain 1/2

USSR

EISENSTADT, V. S., et al, Vestsi Akademii Navuk BSSR, Seryya Fizika-Matematy-chnykh Navuk, No 6, 1970, pp 19-26

of G." It is shown that the necessary minimum number of working locations of the program S is equal to the weight of the maximum chain of the graph G. An efficient algorithm for the optimal distribution of memory is derived.

The suggested algorithm can be used for minimal coloring of the vertices of a transitive graph.

There are five bibliographic references.

2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

USSR

FEYOKTISTOV, B.

"Structure of Optimal Prices in an Interbranch Model"

Ekon.-mat. Metody i Vychisl. Tekhn. v upr. Finansami. Vyp 1 [Mathematical Economics Methods and Computer Equipment in the Control of Finances, No 1 -- Collection of Works], Moscow, Finansy Press, 1971, pp 118-135, (Translated from Referativnyy Zhurnal, Kibernetika, No 3, 1972, Abstract No 3 V446).

NO ABSTRACT.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

USSR

UDC 535.31

FEYZULIN, Z.I. [Radio Engineering Institute, AS, USSR]

"Optical Image Cf Two-Dimensional Object Using Ultrasonic Light Diffraction"

Izv. VUZ: Radiofizika, Vol XV, No 5, May 72, pp 713-717

Abstract: With the use of the plane wave expansion of light and sound fields, the interaction is studied of a cylindrical light wave with a wave ultrasonic field. It is assumed that a two-dimensional object is located in the plane z = 0 with a complex function of transmissivity for the ultrasound f(x,y) at which a plane ultrasonic wave impinges in the positive direction of the z axis. The region occupied by the wave ultrasonic field is illuminated by a cylindrical light wave emitted by a luminous thread parallel to the y axis. The light wave experiences diffraction at the inhomogeneities of the dielectric constant of the photoelastic medium which are produced by the ultrasonic field. The problem considered is to find the connection between f(x,y) and the structure of the scattered light field and to ascertain the conditions during which the scattered light reproduces exactly the function of transmissivity f(x,y). The author thanks S.M. Rytov and V.V. Karavayev for helpful discussions. 3 fig. 3 ref. Received by editors, 13 March 1971; after further improvement, 14 January 1972.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

USSR

UDC: 551.510.535

BURKIN, V. S., KRAVTSOV, Yu. A., FEYZULIN, Z. I.

"Analysis of Errors in Measuring Parameters of the Ionosphere by Means of Multifrequency Pulse Emission"

Moscow, Radiotekhnika i Elektronika, Vol 17, No 4, Apr 72, pp 673-679

Abstract: The method of small perturbations is applied to equations of geometric optics to calculate systematic and random errors in measuring the parameters of the ionosphere by using multifrequency pulse emission. The measurement procedure is based on determining the times of delay and the directions of arrival of a wave on various frequencies reflected from an artificial satellite. The measurement on each frequency is distorted by wave propagation errors in the ionized atmosphere, and by instrument noises. On high frequencies, the errors are determined by the distribution of ionization alone at the time of measurement. Expressions are given which relate the parameters determined by distribution of ionization to the electron concentration of the ionospheric plasma. Determination of the unknown parameters is reduced to solution of a system of linear algebraic equations. In conclusion the authors thank S. M. Rytov and V. G. Repin for interest in the work.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

Abstracting Service: 5/70 Ref. Code: INTERNAT. AEROSPACE ABST. 41 0141 A70-23139 # Fluctuations of the parameters of spherical waves propagating in a turbulent atmosphere (Fluktuatsii parametrov sfericheskikh voln, rasprostraniajushchikhsia v turbulentnoi atmosfere). A. I. Kon and Z. I. Felzulin (Akademiia Nauk SSSA Institut Fiziki Atmosfery, Moscow, USSA). Radiofizika, vol. 13, no. 72 V V C. 2 1, 1970, p. 71 74. 6 refs. In Russian. The amplitude and phase correlations of two spherical waves are calculated in the approximation of the smooth perturbation method. The case considered is when the sources are at some distance from the turbulent layer and the observation points are spaced. (Author) 91 3 REEL/FRAME 19770354

USSR

UDC: 8.74

ASKEROV, T. M., FEYZULLAYEV, A. P.

"Principle of Organization of an Information System in a Sectoral Automated Control System"

V sb. Tsifr. vychisl. tekhnika i programmir. (Digital Computer Technology and Programming--collection of works), vyp. 7, Moscow, "Sov. radio", 1972, pp 83-93 (from RZh-Kibernetika, No 8, Aug 72, Abstract No 8V625)

Translation: The paper describes the principle of organization of an information system in a sectoral automated control system. The principle is based on the method of logic scales. The system is universal both from the standpoint of fields of application, and from the standpoint of types of computers on which it can be realized. The system is described on the example of data collection for the machine building industry. Authors' abstract.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

1/2 - 025 UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--KINETIC EFFECTS IN (PBTE) SUBL MINUS X (SNTE) SUBX COMPOSITIONS -U-

AUTHOR-(03)-YEFIMOVA, B.A., DUBROVSKAYA, I.N., FGURIYEYAL YE.A.

COUNTRY OF INFO--USSR

SOURCE--FIZ. TEKH. POLUPROV. 1970, 4(2) 245-51

DATE PUBLISHED ---- 70

SUBJECT AREAS -- CHEMISTRY, PHYSICS

TOPIC TAGS--HALL CONSTANT, ELECTROMOTIVE FORCE, MAGNETIC FIELD EFFECT, MODEL, SOLID SOLUTION, ELECTRICAL CONDUCTIVITY, CONDUCTION BAND, LEAD COMPOUND, TELLURIUM COMPOUND, SELENIUM COMPOUND, REACTION KINETICS

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/0588

STEP NO--UR/0449/70/004/002/0245/0251

CIRC ACCESSION NO--APO105571

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

2/2 UNCLASSIFIED. PROCESSING DATE--18SEP70 CIRC ACCESSION NO--APO105571 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. N-TYPE SOLID SOLNS. OF (PBTE) SUBI MINUSX (SNTE) SUBX OF SNTE CONTENTS 5-60PERCENT WERE SUBJECTED TO HALL EFFECT AND THERMO EMF. MEASUREMENTS IN A STRONG MAGNETIC FIELD AT BEDEGREES K. THE SP. ELEC. RESISTANCE, SIGMA, THE THERMOEME. COEFF. ALPHA, THE HALL CONST., R. AND THE TRANSVERSE NERNST ETTINGSHAUSEN EFFECT, Q, WERE MEASURED AT 80-300DEGREES K IN WEAK AND ZERO MAGNETIC FIELDS. THE DEPENDENCES OF THE EFFECTIVE MASS D. OF STATES AT THE FERMI LEVEL ON THE COMPN. OF THE SOLID SOLN., THE TEMP., AND THE CONCN. WERE DETD. AT 85DEGREES K, THE CONDUCTION BAND OF THE SOLID SOLNS. OF 5 AND 25PERCENT SNTE, AS ALSO THE CONDUCTION BAND FOR PATE, IS WELL DESCRIBED BY A KEAN MODEL, AND THE PARAMETERS OF THIS MODEL ARE DETO. AT HIGHER TEMPS. A DEPARTURE FROM THE KEAN DISPERSION LAW IN THE DIRECTION OF INCREASED DEPARTURE FROM A PARABALOID IS OBSD. WITH RISE IN TEMP. AND CONCN. EXPTS. ON SOLID SOLNS. WITH HIGH CONTENTS OF SMIE REVEALED THE ANOMALOUS NATURE OF THE CONCN. AND TEMP. RELATIONS FOR THE EFFECTIVE MASS D. OF STATES AT THE FERMI LEVEL, WHICH MUST BE ASSOCD. WITH A CHANGE IN SIGN OF THE TEMP. COEFF. FOR THE WIDTH OF THE FORBIDDEN BAND. THE DATA OBTAINED AGREE WITH THE BAND INVERSION MODEL PROPOSED BY J. O. DIMMOCK, J. MELNGAILIS, AND A. J. STRAUSS (1966).

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

USSR

UDC 547.341.07

KARRAFOVA, F. M., KAMAY, G. KH., YEFIMOVA, V. D., and FHIGABIYEVA, F. A., Kazan Chemical Technology Institute imeni S. M. Kirova

"Process for the Preparation of Methyldichlorophosphines"

USSR Author's certificate No 362026, filed 24 Apr 70, published 13 Dec 72 (from Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 2, 1973, p 55)

Translation: This process is based on tertiary phosphines and is improved in that in order to strengthen the process, dichlorides of methylphosphonic acid react with tertiary phosphines while being heated. The desired product is subsequently separated by known methods. 2. The process in number 1 is improved in that it is carried out at temperatures between 175-190°C. under a stream of inert gas, for example: carbon dioxide.

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USSR

UDC: 621.371

FIALKO, Ye. I.

"Radio Observation of Short-Term Meteor Trails"

Kiev, Izvestiya Vuzov SSSR -- Radioelektronika, Vol 13, No 3, 1970, pp 415-417

Abstract: Although observation of long-lasting meteor trails has been successfully done, short-trail observation of thick meteor swarms, is more complex when done by radar, especially when the orbit of the trail is perturbed. This complication arises because of the so-called normal dispersion of radio waves by the ionized meteor trails. Although it would seem natural to use a nondirectional or slightly directional antenna, observation under such conditions turns out to be poor, especially if the transmitting power is low. It is best to use directed antennas for transmitter and receiver. To guarantee that these short-term trails are properly observed, a number of radar stations should 1/2

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USSR

FIALKO, Ye. I., Izvestiya Vuzov SSSR -- Radioelektronika, Vol 13, No 3, 1970, pp 415-417

be used with the antenna coverage of each overlapped by the other. The author suggests a simpler method based on the assumption that a single immobile and highly directional antenna is used for both transmitter and receiver, and explains this method in some detail. It was used to observe the Leonid showers of 1967. His met od, he concludes, is not complex and can be easily realized. The diagram accompanying the article is helpful in following his exposition.

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TITLE--RADIO OBSERVATIONS OF SHORT LIVED METEOR SHOWERS -U-

AUTHOR--FIALKO, YE.I.

COUNTRY OF INFO--USSR

SOURCE--RADIOELEKTRONIKA, VOL. 8, MAR. 1970, P. 415-417

DATE PUBLISHED --- MAR 70

SUBJECT AREAS--ASTRONOMY, ASTROPHYSICS

TOPIC TAGS-METEOR SHOWER, KADIO WAVE SCATTERING, METEOR TRAIL, ANTENNA, RADIO ASTRONOMY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME-+3001/0251

STEP NO--UR/0452/70/008/000/0415/0417

CIRC ACCESSION NO--AP0126023

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UDC 661.666-494.001.5

FIALKOV, A. S., SIDOROV, N. M., SMIRNOV, B. N., and DYUZHIKOV, B. I.

"Specific Features of the Structure and Growth of Threadlike Pyrocarbon Formations"

Moscow, Doklady Akademii Nauk SSSR, Vol 211, No 1, Jul-Aug 73, pp 158-160

Abstract: The initial period of the growth of thread-like pyrocarbon formations — the so-called "whiskers" — has been investigated. The "whiskers" were obtained at a temperature 900-1000° in 10-40 mm Hg vacuum from benzene vapors without any gas diluent, over graphite supports, using metallic catalyst. It has been shown that the actual carbon whisker consists of a central core shooting out of the surface of the activated support in form of a band 100-200 A thick, rolled into a cylindrical spiral. The formation process of these whiskers goes through several stages: activation of the support, radical-chain type reaction occurring during the cracking of the hydrocarbon followed by chain polymerization of the products. The thickening of the cores is due to the deposition of sooty and pyrocarbon films on its surface.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

UDC 678.06

FIALKOV, A. S., and CHEKANOVA, V. D.

"Polymeric Carbon-Graphite Material Glass-Carbon"

Moscow, Plasticheskiye Massy, No 6, 1973, pp 65-66

Abstract: Glass-carbon is obtained by thermal decomposition of some carbon-aceous materials which during pyrolysis are converted to carbonized products, by-passing the liquid phase. The starting materials consist of synthetic resins or aromatic hydrocarbons. The carbonization takes place with or without catalysts by slow heating in a reducing or neutral atmosphere. Glass-carbon remains solid up to 4000°K, its properties depending on the treatment temperature. The raterial has a very high mechanical strength, chemical stability, low gas penetration and very good electroconductivity. In neutral media it can be utilized instead of such expensive materials as platinum, titanium, and molybdenum.

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Acc. No. 170047387 GEOPHYSICAL ABST. 5 10 UR C 467

O1708s Microscopic studies of the structure of petroleum cokes. Smirnov. B. N. Fialkov. A. S. (USSR). Khim. Trend. Topl. 1970. (1). 185-6 (RRS). The trusture of pyrolysis and cracked petroleum cokes was studied with optical and electron microscopes. The cracked cokes consisted of groups of parallel crystallites. The fine structure in both cokes was the same. The electron microscope revealed layered or laminar structures. Spherulitic structures, observed only in the pyrolysis coke, consisted of layered crystallites with radial orientation. Oriented, mosaic, and petal-shaped structures, obsel, with an optical microscope, were different aspects of the same layered structure.

REEL/FRAME
19790913

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

172 033 UNCLASSIFIED PROCESSING DATE--04DECTO

AUTHOR-(05)-BERLIN, A.A., FIALKOV, A.S., TSVELIKHOVSKIY, G.I., ASEYEVA, COUNTRY OF INFO-USSR

SOURCE-PLAST. HASSY 1970, [6], 44-8

DATE PUBLISHED ---- 70

SUBJECT AREAS -- CHEMISTRY, MATERIALS

TOPIC TAGS--PHENOL FORMALDEHYDE RESIN, PYROLYSIS, X RAY STUDY, IR SPECTRUM, METHYLENE, DEHYDROGENATION, GAS CHROMATOGRAPHY, MASS SPECTROSCOPY, CONNUGATE BOND SYSTEM, POLYMER STRUCTURE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0732

STEP NO--UR/0191/70/000/006/0044/0048

CIRC ACCESSION NO--APOI36171

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

2/2 033 UNCLASSIFIED PROCESSING DATE--04DECT CIRC ACCESSION NO--APO136171 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. SAMPLES OF BAKELITE (I) CONTG. VARIOUS AMTS. OF PHOH WERE PREPD. BY THE PURIFICATION OF COM. I. I WAS THEN PYROLYZED IN VACUUM OR IN AR AT TEMPS. LESS THAN OR EQUAL TO 1000DEGREES. ANAL. OF DTA DATA AND S RAY AND IR SPECTRA SHOW THAT THE MAIN REACTIONS WERE BREAKING CH SUB2 BRIDGES, DEHYDROGENATION, AND FREE RADICAL REACTIONS INVOLVING QUINONDID STRUCTURES. GAS CHROMATOG. AND MASS SPECTROSCOPY SHOWED THAT THE MAIN DECOMPN. PRODUCTS WERE PHOH, CRESOL, BENZENE, H SUB2, CH SUB4, CO, CO SUB2, AND H SUB2 O. THE CARBONIZED RESIDUE OBTAINED AT 900DEGREES HAD AN UNORGANIZED STRUCTURE. INCREASING THE PYROLYSIS TEMP. INCREASED THE NO. OF CONJUGATED STRUCTURES AND ORDERING. THE SAMPLES WITH LOWER INITIAL PHOH CONTENTS GAVE DENSER PYROLYZED STRUCTURES.

UDC 669.721.074.2

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FIALKOV, Yu., G., TARAT, E. Ya., PICHUKOV, A. P., NIKITINA, A. P., SHKODINA, V. G.

"Purification of Magnesium Production Gases to Remove Chlorine in Hollow Scrubber"

Tr. Vses. N-i. i Proyektn. In-ta. Alyumin., Magn. i Elektrodn. Prom-sti [Works of All-Union Scientific Research and Planning Institute of the Aluminum, Magnesium and Electrode Industry], 1970, No. 72, pp. 123-132. (Translated from Referativnyy Zhurnal Metallurgiya, No. 5, 1971, Abstract No. 5 G203 by the authors).

Translation: The influence of the composition of the absorbent, speed and direction of gas flow, and sprinkling density on absorption of Cl by lime milk was studied in an industrial scrubber. The decrease in the degree of gas purification resulted from a change in the hydrodynamic conditions in the scrubber due to foaming of the absorber. Foaming began at concentrations of $\text{Ca}(\text{Cl0})_2$ of 45-60 g/l with various contents of $\text{Ca}(\text{Oll})_2$ and resulted from decomposition of the $\text{Ca}(\text{Cl0})_2$. Addition of CaCl2 to the absorbent (initial content 100 g/l) did not change the indices of absorption. With counterflow movement of the phases, increasing the gas speed from 1 to 2.5 m/sec improved purification. The effectiveness of operation of the direct flow zone of the scrubber was decreased with increasing gas speed. Increasing the sprinkling density from 18 to 60 m³/m²·hr helps to improve the absorption indicators. With counterflow, the empirical equation $\text{K}_V = 2.75 \cdot \text{W}^{1} \cdot 25 \cdot 10.67$ was produced, where K_V is the volumetric coefficient of the rate of absorption, $\text{Kmol/m}^{3} \cdot \text{hr} \cdot \text{bar}$, W is the is the gas speed, m/sec, and L is the sprinkling density, m³/m²·hr. 6 figs.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

UDC 669.721.074.2

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PICHUKOV, A. P., KRIVITSKAYA, L. I., FIALKOV, Yu. G.

"Variation of pH ith Composition of Solutions Produced in Purification of Magnesium Production Gases"

Tr. Vses. N-i. i Proyektn. In-ta. Alyumin., Magn. i Elektrodn. Prom-sti [Works of All-Union Scientific Research and Planning Institute of the Aluminum, Magnesium and Electrode Industry], 1970, No. 72, pp. 133-138. (Translated from Referativnyy Zhurnal Metallurgiya, No. 5, 1971, Abstract No. 5 G204 by the authors).

Translation: The pH of aqueous, alkaline, and acid solutions of CaCl₂ in the 0-4 mol/l concentration interval and of Ca(OH)₂ and CaCO₃ solutions with and without added CaCl₂ was measured. The pH decreases from 12.65 to 10.0 for saturated Ca(OH)₂ solutions and from 9.25 to 5.10 for saturated CaCO₃ solutions as the CaCO₂ content is varied from 0 to 4 mol/l. Similar dependences are produced for acid solutions of CaCl₂. These regularities indicate the possibility of creating an automatic system for testing and control of the process of HCl and Cl removal from gases, based on measurement of the pH and redox potential of the solution. 4 figs.

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UDC 669.71.074.2

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FIALKOV, YU. G., BURKAT, V. S., LISITSYNA, N. I.

"Absorption of Hydrogen Fluoride from Aluminum Production Gases in a Hollow High-Speed Scrubber"

Tr. Vses. n.-i. i provektn. in-ta alvumin., magn. i elektrodn. prom-sti (Works of the All-Union Scientific Research and Planning and Design Institute of Aluminum, Magnesium and Electrode Industry), 1970, No 71, pp 157-167 (from RZh-Metallurgiya, No 4, Apr 71, Abstract No 4G209)

Translation: A study was made of the absorption of NF by a 5% soda solution in a hollow high-speed scrubber at an aluminum plant. The scrubber is a cylindrical unit 1 meter in diameter with evolvent atomizers arranged in three tiers and louvered separators. The basic laws of gas absorption in hollow scrubbers are discussed. The effect of a number of factors on the process is discovered: the arrangement of the atomizers, the gas velocity, and the reflux density. The operation of the scrubbers with reflux of its individual atomizer in different positions is studied. On the basis of this study, the optimal direction of the liquid feed is selected — upward through the middle and lower atomizers and downward through the upper atomizer. With a reflux density of L = 20 m/hour and three atomizers, this made it possible to obtain

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FIALKOV, YU. G., et al., Tr. Vses. n.-i. i proyektn. in-ta alyumin., elektrodn. prom-sti, 1970, No 71, pp 157-167

absorption indexes analogous to the indexes for 30 m/hour and 6 atomizers directed in both directions. The effect of the flow rate of the absorbent on the cleaning efficiency and the absorption coefficient $K_{f V}$ is studied. The dependence of K_V on L is expressed in the form $K_V = \Lambda L^X$ where the experimental value of x is 0.46. The effect of the gas velocity Wg was studied within the limits of 2.8-8.0 m/sec; y is defined as equal to 0.96 in the expression $K = \frac{1}{2}$ = BW Y. Thus, with an increase in W to 8 m/sec, the purification efficiency is almost not reduced. The resistance of the unit for W = 8 m/sec and L = 45 gm/hour was 65 mm H₂0. The results of the research are generalized in the form of the empirical equation $K_V = 267L^{0.46}W_g^{0.96}$ permitting hollow scrubbers to be calculated under conditions close to the tested ones. There are 5 illus-2/2

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CIA-RDP86-00513R002200810012-5"

APPROVED FOR RELEASE: 09/17/2001

UDO 535.215.1

FIALKOVSKAYA, O.V., KHIRUNENKO, L.I.

"Photoconductivity And Phototransfer Of Charge In CdS Crystals Activated By

V sb. Probl. fiz. soyedineniy AIIBVI. T. 1 (Problems Of The Physics Of AIIBVI Compounds. Part 1. -- Collection Of Works), Vil'nyus, 1972, pp 77-81 (from RZh: Elektronika i yeye primeneniye, No 11, Nov 1972, Abstract No 118295)

Translation: The effect was studied of 7 -irradiation and illumination on the photoconductivity and absorption spectrum of CdS-Dy crystals. The photoconductivity (PC) was measured in a vacuum at 293 and 77° K. Together with the maximums inherent in pure CdS, meximums exist on the curves of the spectral distribution of the PC of nonirradiated CdS-Dy crystals, caused by the presence of Dy the position of which corresponds to the positions of the maximums of absorption of by 3+ After γ -irradiation by doses of 2 x 10° r, the maximums of FC caused by Dy3+ (12 200 cm-1) are decreased and the maximums characteristics for Dy2+ (14 250 cm⁻¹) are decreased and the maximums characteristics for by 7000 cm⁻¹ a negative PC develops. An analogous effect was observed during illumination for 15-20 hours in the bend Dy 7 (12 200 cm⁻¹). The reverse transfer of the charge with breakdown of Dy 2 and formation of Dy 7 is accomplished by illumination in bend Dy 6 (4250 cm⁻¹). 2 ill. 4 ref. I.V.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

Electromagnetic Wave Propogation

USSR

UDC 538.576.3

NEFEDOV, YE.I., FIALKOVSKIY, A.T.

"Diffraction Of Plane Electromagnetic Wave At An Anisotropic Half-Plane In Free Space And In A Plane Waveguide"

Radiotekhnika i elektronika, Vol XVII, No 6, June 1972, pp 1141-1152

Abstract: Two problems are considered of the diffraction of a plane electromagnetic wave at a half-plane with the external anisotropic boundary conditions specified for it: 1) The half-plane is located in infinite space; and 2) The half-plane is in a plane waveguide. The results are obtained in the form of two pairs of integral equations for the first case, and for the second — in the form of an infinite system of algebraic equations. An example is presented of the solution of equations for one special case. The problems considered have a practical value for problems of diffraction at ferrite and plasma layers and also in a whole series of other problems of antenna-waveguide techniques, measuring devices, etc. The authors thank P.Ya. Ufintsev for discussion of the work and for his comments. 4 fig. 14 ref. Received by editors, 7 May 1971.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

UDC 621.372.414.2

FIALKOVSKIY. A. T., CHAYKA, V. YE.

"Coaxial Open Resonator formed by Barrel-Shaped Outer and Cylindrical Inner Mirrors"

Gor'kiy, <u>Izvestiya vysshikh uchevnykh zavedeniy, Radiofizika</u>, Vol XV, No 1, 1972, pp 117-125

Abstract: A theoretical calculation was made of the basic parameters of the open coaxial resonator formed by barrel-shaped outer and cylindrical inner mirrors. Analytical expressions were obtained for the natural frequencies, the position of the caustics, the field distribution and the ratio of the Q-factors of various types of oscillations for $2\pi d/\lambda \gg 1$ (λ is the wavelength, d is the characteristic dimension of the resonator). The results of the numerical calculations permit selection of the resonator geometry for practical applications. The analysis performed shows that the selection of the azimuthal forms both respect to frequency and Q-factor is insufficient, and in practical devices it is necessary to take additional measures to isolate the operating form of the oscillations.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

UDC 621.372.54

NEFEDOV, YE.I., FIAIKOVSKIY, A.T.

*Open Coaxial Cylindrical Resonator"

Kiev, Izvestiya Vuzov SSSR--Radicelektronika, Vol XIV, No 10, 1971, pp 1115-1122

Abstract: It is shown that a high-Q oscillation can exist in a segment of a coaxial waveguide with an internal conductor unrestricted in length. The characteristics of the open resonator are found and the area of use of the studies of the system are discussed. In the work only those oscillations are ation in which dependence on the azimuthal angle Q is absent. For a generalizions participating in the derivation to substitute the index Q at Q and Q and Q and Q are Q and upon obtaining the final formulas the Debye asymptotic formulas are used. The second polarization (of H-wave) is studied simularly. During in a corresponding wave and the function Q must be substituted for the function Q must be substituted for the function Q must be substituted for the function Q after revision 21 Jan 71. 12 ref. 3 fig.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

UDC 533.922

AVRAMENKO, M. I., KUZNETSOV, V. S., KUZNETSOVA, N. P., NIKOL'SKIY, N. A., and FIDEL'SKAYA, R. P.

"Calculation of Phase Focusing of Intensive Bunches of Charged Particles in Direct-Action Accelerators"

Moscow, Atomnaya Mengiya, Vol 32, No 5, May 72, pp 437-440

Abstract: The study of particle dynamics in direct-action accelerators requires consideration of the Coulomb interaction of particles in a bunch, as well as the velocity spread of the particles. Such a problem is complicated to solve in a full volume, since the particle motion has to be considered in a six-dimensional coordinate and velocity space. To simplify the problem, it is assumed that the longitudinal motion of the particles of the bunch does not depend on their radial coordinates, nor the radial motion of the particles on their axial coordinates. It is also assumed that the particle density distribution in the transverse phase space is microcanonical and at a given moment of time is the same for any cross-section of the bunch z = const. These assumptions permit reducing the six-dimensional problem of the phase

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AVRAMENKO, M. I., et al., Atomnaya Energiya, Vol 32, No 5, May 72, pp 437-440

focusing of a bunch to a two-dimensional problem concerning the longitudinal coordinates and velocities of particles. The article considers a nonstationary case. No constraints are imposed on the particle density distribution function in the longitudinal phase space. A description is given of the calculation action used to study peculiarities of the formation of intensive bunches of nanosecond duration in direct-action accelerators. A diagram is given showing successive variations in the configuration of the longitudinal phase volume, the linear charge density distribution, and the longitudinal Coulomb repulsive force along a bunch during passage through an accelerator. It is shown that, due to the nonlinearity of the longitudinal Coulomb forces, the configuration of the longitudinal phase volume of the bunch is considerably distorted, which phenomenon limits the bunching factor.

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UDC 621.384.6.01

KUZNETSOV, V. S., ABROYAN, M. A., SOLNYSHKOV, A. I., and FIDEL SKAYA, R. P.

"Measurement and Investigation of the Redistribution of the Phase Density of Charged Particles in Real Fluxes"

Leningrad, Zhurnal Tekhnicheskoy Fiziki, Vol XII, No 8, 1971, pp 1611-1617

Abstract: The density distribution of the charged particles of a beam in a four-dimensional phase space of transverse coordinates and velocities determines all the basic characteristics of the flux. The authors' actual measurements of this distribution for proton beams with a current of approximately 400 milliamperes and particle energies of 30 and 650 kiloelectron volts showed that the actual distribution of charged particles differs substantially from the distribution as it is usually calculated theoretically. Most methods of computing the parameters of intensive fluxes assume a microcanonical distribution in which the phase density of the particles does not change from one cross section of the beam to another. In actual fact, the phase density of the particles does charge and, consequently, so do such basic characteristics of the flux as the density distribution of the current and the magnitude and configuration of the phase volume.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

USSR

KUZNETSOV, V. S.; FIDELISKAYA, R. P.

"Intense Beams with an Arbitrary Distribution of the Phase Density in External Focussing Fields"

Leningrad, Zhurnal Tekhnicheskoy Fiziki; October, 1970; pp 2099-2105

ABSTRACT: A method of obtaining beams with an arbitrary distribution of the phase density, developed by the authors in previous works appearing in earlier issues of the same journal (XXXVII, No. 5, 1967; XXXVIII, No. 2, 1968; XXXVIII, No. 10, 1968), is generalized for the case of the presence of external magnetic and electrical fields. Conditions are presented and formulated under which the general, stationary, six-dimensional problem on the determination of the distribution of the particle density in phase space can be reduced to a non-stationary, four-dimensional problem. Results of actual calculations illustrating the basic properties of beams with a distribution of the phase density different from the microcanonical are presented. In particular, it is shown that in such beams the projection of a four-dimensional phase space on the plane of cartesian coordinates x, x' may become larger.

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USSR

UDC: 621.372.852.15

KADUK, B. G., ROVENSKIY, A. Ya., ROVENSKIY, D. Ya., FILMAN, B. G., All-Union Scientific Research Institute of Analytical Instrument Building

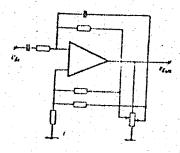
"An Electronic Filter"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 24, Aug 71, Author's Certificate No 311372, Division H, filed 10 Apr. 70, published 9 Aug 71, p 207

Translation: This Author's Certificate introduces an electronic filter which contains an amplifier with a differential input and a parallel RC circuit. As a distinguishing feature of the patent, provision is made for adjusting the resonance frequency over a broad range by connecting the common point of the RC circuit to the inverting input of the amplifier, connecting the second ends of the elements in the RC circuit to different leads of a variable resistor at the output of the device, and connecting the same ends of these elements through resistors to a fixed resister which is connected to the noninverting input of the amplifier.

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KADUK, B. G., et al., Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 24, Aug 71, Author's Certificate No 311372, Division H, filed 10 Apr 70, published 9 Aug 71, p 207



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1/2 021 UNCLASSIFIED PROCESSING DATE--090CT70
TITLE--THE DIAGNOSIS OF TRAUMATIC INTESTINAL INTRAMURAL HEMATUMAS -U-

AUTHOR-(02)-YEVDOKIMOV, V.N., FIDRUS, YE.I.

COUNTRY OF INFO--USSR

SOURCE--VESINIK KHIRURGII IMENI I. I. GREKOVA, 1970, VOL 104, NR 5, PP DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-SMALL INTESTINE, TRAUMATOLOGY, RADIOGRAPHY, DIAMOSTIC MEDICINE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—1990/0581

STEP NO--UR/0589/70/104/005/0094/0098

CIRC ACCESSION NO--APO108796

UNCLASSIFIED

CIRC ACCESSION NO--APOLO3796

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. OBSERVATIONS OVER 12 PATIENTS WITH TRAUMATIC INTRAMURAL HEMATOMAS OF THE BOWEL ARE SUMMARIZED. CONTRAST X RAY INVESTIGATION OF THE BOWEL IS FELT TO BE OF GREAT IMPORTANCE FOR THE CLINICORDENTGENOLOGICAL CHANGES. INDICATIONS TO UNGENT SURGICAL FOR THE CLINICORDENTGENOLOGICAL CHANGES. INDICATIONS TO UNGENT SURGICAL INTERVENTION IS SUCH AN AFFECTION ARE DESCRIBED. FACILITY: RENTGENUVSKOGO OTD. AND KHIRURGICHESKOY KLINIKI MOSKOVSKOGO N I INSTITUTA IN. N. V. SKLIFOSOVSKOGO.

UNCLASSIFIED

1/2 018
UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--LIGHTWEIGHT CONCRETE MIXTURE FOR STRUCTURAL COMPONENTS -U-

AUTHOR-(03)-BUZHEVICH, G.A., KURASOVA, G.P., FIGAROV, R.G.

COUNTRY OF INFO--USSR

SOURCE-U.S.S.R. 267,426
REFERENCE-OTKRYTIYA, IZUBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970,
DATE PUBLISHED-OIAPR70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--CONCRETE, PATENT, MECHANICAL STRENGTH, GRAVEL, CEMENT,

CONTROL HARKING--NO RESTRICTIONS

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DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1416

STEP NO--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--AA0128815

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	UNCLASSIFIED	

1/2 033 UNCLASSIFIED PROCESSING DATE-300CT70
TITLE--HEAT TREATMENT OF TUNGSTEN DURING HIGH SPEED ELECTRIC HEATING -U-

AUTHOR-(02)-BOGATVREV, YU.M., FIGELMAN, M.A.

COUNTRY OF INFO--USSR

SOURCE--METALLOVED. TERM. OBRAB. METAL. 1970, (3), 70-1

DATE PUBLISHED---- 70

SUBJECT AREAS--MATERIALS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--METAL HEAT TREATMENT, POWDER METALLURGY, COLD ROLLING, PLASTICITY, TUNGSTEN ALLOY, MECHANICAL PROPERTY

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0012

STEP NO--UR/0129/70/000/003/0076/0071

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Carried La resentadificamentalization de la 2/2 033 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--APOLISOOS ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. TO IMPROVE THE PLASTICITY OF POWDER METALLURGICAL, COLD ROLLED W HIGH SPEED ELEC. HEATING TO 1270-2400DEGREES WAS APPLIED AT A HEATING RATE OF LOODEGREES-SEC WITH HOLDING TIMES OF 1 AND 10 MIN, UNDER VACUUMS OF 10 PRIME NEGATIVE2, 10 PRIME NEGATIVES, AND 2 TIMES 10 PRIME NEGATIVES TORR. THE HIGH SPEED ELEC. HEATING IMPROVED THE PLASTICITY (ELONGATION INCREASED FROM 7 TO 20PERCENT AFTER 10 MIN HOLDING AT 1600DEGREES). INCREASING THE TEMP. OVER 1800DEGREES LOWERED THE PLASTICITY SLIGHTLY. THE DEGREE OF VACUUM DURING HEATING HAD NO EFFECT ON THE MECH. PROPERTIES OF W. THE MAGNETIC SUSCEPTIBILITY OF W AFTER ALL HEAT TREATMENT OPERATIONS INDICATED THE ABSENCE OF FERROMAGNETIC OR STRONGLY PARAMAGNETIC PHASES IN THE H. UNCLASSIFIED

UDC 535.376:621.382

STREET STREET STREET

POPOV, Yu. V., SHILOV, A. F., MANAK, I. S., KOBAK, I. A., FIGURIN, V. A.

"Nonuniformity of Glow and Percentage Modulation Lengthwise of P-N Junction in GaAs Diodes"

Vestn. Belorus. un-ta (Bulletin of Belorussian University), 1970, Series 1, No 3, pp 63-64 (from RZh--Elektronika i yeye primeneniye, No 5, May 1971, Abstract No 5B232)

Translation: The results are presented of a study of the nonuniformity of glow and percentage modulation of a p-n junction in GaAs diodes, which can be accounted for by the nonuniformity of distribution of impurities. 2 ill. 4 ref. Summary.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810012-5"

UDC 612.815.1+612.826

AYRAPET YARTS, E. SH., AUBKOVA, B. A., and FIGURINA, I. I., Laboratory of Comparitive Physiology of Internal Analysors, Institute of Physiology imeni I. P. Pavlov, Academy of Sciences, USSR, Leningrad

"On the Role of Thalamic Structures in the Function of Visceral Analysors in Dogs"

Leningrad, Fiziologicheskiy Zhurnal SSSR, imeni I. M. Sechenov, Vol 59, No 8, Aug 73, pp 1,158-1,167

Abstract: The retrograde degeneration of the thalamic nuclei of dogs was studied following removal of various areas of the visceral cortex. Conditioned reflexes of stomach and intestinal receptors were used as functional indicators of visceral analysor activity. It was observed that bilateral removal of the precoronary region caused the greatest degeneration in the ventral nucleus of the thalamus with other parts of the thalamo-cortical complex degenerating as well. This was accompanied by an immediate weakening of visceral afferent signals, with a resumption of visceral analysor activity of the cortex degeneration of the ventral and contral lateral nuclei was noted. In this case visceral signals were disturbed for only 18 days. If the post-