1/2 028 UNCLASSIFIED PROCESSING DATE--13NOV70 TITLE--STUDY OF THE TEMPERATURE CHARACTERISTICS OF MESISTANCE WIRE STRAIN GAUGES UNDER CONDITIONS OF SHARPLY CHANGING TEMPERATURES -U-

AUTHOR-(02)-LIKHACHEV, YU.I., SHAKHMATOV, O.T.

COUNTRY OF INFO--USSR

SOURCE--PROBLEMY PROCHNOSTI, VOL. 2, MAR. 1970, P. 83-86

DATE PUBLISHED --- MAR 70

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

TOPIC TAGS--THERMAL EFFECT, STRAIN GAGE, NICKEL ALLOY, MOLYBOENUM ALLOY, WHIRE/(U)NBOKHLUD ALLOY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/0109

STEP NU--UR/3663/70/002/000/0083/0086

CIRC ACCESSION NO--APO123881

LACLASSIFIED

2/2 028
CIRC ACCESSION NO-APOL23881
ABSTRACT/EXTRACT-(U) GP-0- ABSTRACT. EVALUATION OF THE EFFECT OF HEASTRACT-(U) GP-0- ABSTRACT. EVALUATION OF THE EFFECT OF HEASTRACT-(U) GP-0- ABSTRACT. EVALUATION OF THE SISTANCE WIRE HEATING RATE ON THE BEHAVIOR OF CERTAIN PARAMETERS: OF HESISTANCE WIRE STRAIN GAUGES. EXPERIMENTAL AND THEORETICAL RESULTS ARE GIVEN FOR THE STRAIN GAUGES. EXPERIMENTAL AND THEORETICAL RESULTS OF NI-MO AND NAGOROUGH SHAVIOR OF RESISTANCE STRAIN GAUGES MADE OF WIRES UF NI-MO AND NAGOROUGH SHAVIOR OF RESISTANCE STRAIN OF MIRES IS INDEPENDENT OF ALLOYS, UNDER UNSTEADY THEORET ACCURACY UNDER SHARPLY TEMPERATURE CHANGES. FOR OBTAINING BETTER ACCURACY UNDER SHARPLY CHANGING TEMPERATURES, IT IS NECESSARY TO MAKE ALLOMANCE FOR THE CHANGING TEMPERATURES, IT IS NECESSARY TO MAKE ALLOMANCE FOR THE GAUGES ON THE TEMPERATURE CHANGE RATE.

GAUGES ON THE TEMPERATURE CHANGE RATE.

INZHENERNO-FIZICHESKII INSTITUT, OBNINSK, USSR.

INZHENERNO-FIZICHESKII INSTITUT, OBNINSK, USSR.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

UNCLASSIFIED

AAQ038342_

Likhacheva,

UR 0482

Soviet Inventions Illustrated, Section I Chemical, Derwent,3/70

237668 SLAC from steel production is prepared for use in structural materials by coarsely comminuting the slag, removing the residual metal by means of a magnet; keeping the slag in damp state for 3-5 days by moistening it with water; finely communuting the material; and repeating the magnetic separation of the metal. The storage in the damp state presents a subsequent self-disfintegration of the slag to powder, and thus improves its properties as a structural material. 2.10.67. as 1188558/29-33. N N OVCHINKIN et alia Chelyabinsk Metallurgical Plants Design Inst. (16.6.69.) Bul.8/12.2.69. Class 80c. Int.Cl. CO4b.

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19731456

AAG038342_

UR 0482

Soviet Inventions Illustrated, Section I Chemical, Derwent,3/70

237668 SLAG from steel production is prepared for use in structural materials by coarsely comminuting the slag, removing the residual metal by means of a magnet; keeping the slag in damp state for 3-5 days by moistening it with water; finely communuting the material; and repeating the magnetic separation of the metal. The storage in the damp state presents a subsequent self-disfintegration of the slag to powder, and thus improves its properties as a structural material. 2.10.67. as 1188558/29-33. N N OVCHINKIN et alia Chelyabinsk Metallurgical Plants Design Inst. (16.6.69.) Bul.8/12.2.69. Class 80c. Int.Cl. CO4b.

LD

18

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19731456

UDC 576.8.095.51.095.18:615.28

SKALA, L. Z., IL'YASHENKO, B. N., LIKHACHEVA, N. A., and SKVORTSOVA, Ye. K., All Union Institute of Disinfection and Sterilization

"A Study of the Mutagenic Action of Halide Containing Disinfectant"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 11, 1971, p

Abstract: Four iodine compounds and four chlorine compounds were tested on bacteria and phages in concentrations causing 86-99% inactivation of the microbes. The frequencies of mutation observed in E. coli were: 6x10-6 by iodopiron, 4×10^{-6} by iodonate, 3×10^{-6} by iodolan, and 6×10^{-6} by an aqueous iodine solution. Chlorine compounds yielded similar results on E. coli: 1.1x10-7 mutations were observed after application of chlorauccinamide, 5x10-6, after KDKhTsK, 3.1x10-6 after sulfochlorantine, and 3.4x10-6 after chloramine. The frequency with which the bacteriophages reverted to wild type ranged from 5x10-6 to 7x10-6. Since the frequency of spontaneous mutations in E. coli K12 (reversion from thr to thr+) is 7.6×10-6, it is concluded that the strongly inactivating iodine and chlorine compounds exert no mutagenic effect on the bacteria and bacteriophages investigated. 1/1

CIA-RDP86-00513R002201810012-4"

APPROVED FOR RELEASE: 09/19/2001

WC 632.95

KAMENNOV, N. A., LURIK, B. B., LIKHACHEVA, V. F., Central Scientific Research Institute of Disinfection

"A Method of Making Piperonylic Acid"

USSR Author's Certificate No 348556, filed 4 Jan 70, published 8 Sep 72 (from RZh-Khimiya, No 10, May 73, Abstract No 10N564P by T. A. Belyayeva)

Translation: In order to increase the yield of the goal product and simplify the technology of the .process of synthesis, sodium hypochlorite is used as the oxidizer for making piperonylic acid by oxidizing piperonal. Example: A mixture of 0.2 mole of sodium hypochlorite and 40 ml of water is brought to a boil, 199 ml of 10-11% solution of NaOCl is added by drops over a 1.5-2 hour period, the reaction is continued until drops of the reaction mass fail to produce any color when applied to indicator paper impregnated with a 20% solution of potassium iodide, the mixture is cooled to a temperature of 20°C or less, filtered, acidified with concentrated hydrochloric acid, and piperonylic acid is separated by a Nutsch filter, washed with water, and dried at 110-120°C with a yield of 80-85%. The melting point of the acid is 225-7°C.

1/1

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

UDC: 621.372.4.001.5

LIKHAREV, K. K., SEMENOV, V. K.

"Concerning the Properties of a Superconducting Point Contact Enclosed in a Cavity"

Moscow, Radiotekhnika i Elektronika, Vol 17, No 9, Sep 72, pp 1983-1986

Abstract: A study is made of the peculiarities of Josephson emission of a superconducting point contact within the framework of the Aslamazov-Lerkin model when the contact is enclosed in a cavity. This hook-up is the most convenient way to match contacts with low normal impedance of 0.01-1 chm to conventional electrodynamic microwave systems. It is found that a maximum power of approximately 10-8 W can be coupled out of a Josephson contact in a cavity resonator. The authors thank V. N. Gubankov, L. S. Kuz'min and V. V. Migulin for discussing the work.

1/1

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UDC: 621.375.7.001.5

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VYSTAVKIN, A. N., GUBANKOV, V. N., KUZ'MIN, L. S., TIKHAHEV, K. K., MIGULIN,

"Concerning the Particulars of Parametric Regeneration in Superconducting

Moscow, Radiotekhnika i Elektronika, Vol 17, No 4, Apr 72, pp 896-899

Abstract: The authors analyze parametric interactions in a point contact for the microwave case of open-circuit combination frequencies. The analysis is based on the equivalent circuit of the point contact proposed in a previous paper (A. N. Vystavkin et al., Radiotekhnika i Elektronika, Vol 15, No 11, 1970, p 2404). It is found that there is a region of negative resistance with a smooth transition to a region of synchronization. The consequences and region of applicability of this effect are discussed.

1/1

CIA-RDP86-00513R002201810012-4" APPROVED FOR RELEASE: 09/19/2001

UDC: 621.382.2.001.5

LIKHAREV, K. K., SEMENOV, V. K.

"Electrodynamic Properties of Superconducting Point Contects"

Moscow, Radiotekhnika i Elektronika, No 11, Nov 71, pp 2167-2172

Abstract: The behavior of a superconducting point contact conforming to the Aslamazov-Larkin model in a nonresonance wave system is theoretically analyzed. It is shown that the powers of Josephson radiation from point superconducting contacts achieved up to the present (~10⁻¹⁰ W in the 3-cm band) are not nearly the limiting values attainable. Low-resistance electrodynamic systems must be used to reach higher powers, i. e. the wave impedance of the line must be much less than the contact resistance. Calculations are presented for the maximum power radiated by the contact, and for the behavior of the contact when subjected to an external harmonic lin and V. V. Migulin for discussing the paper. Four figures, bibliography of sixteen titles.

1/1

- 19 -

UDG: 537.312.62

LIKHAREV, K.

"Nonlinear Electrodynamics of Narrow Superconductive Films"

Gor'kiy, Izvestiya VUZ--Radiofizika, Vol 14, No. 8,

Abstract: This is the third in a series of articles published by the author in this same journal. The first (14, No. 6, 1971, p 909) showed that if the cross-sectional area of a narrow surerconducting film in an electromagnetic field is less than the square of the depth to which the field penetrates the film, the linear superconducting inductance of the film is comparable in magnitude to the linear geometric inductance. The second paper in this series (14, No. 6, 1971, p 919) explained that for the condition the doubt of field menotration constant of the film and λ is the depth of field penetration, quantum eddies may form in the film with a current comparable with that for which a reactive Ginzburg-Landau nonlinearity appears in the film. The present paper investigates the Ginzburg-Landau nonlinear characteristics of such films and their effects on the electrodynamic characteristics of the films carrying current, and compares its results

LIKHAREV, K. K., Izvestiya VUZ--Radiofizika, Vol 14, No 8, 1971, pp 1232-1241

with those of earlier works on the same subject. The author is connected with the Moscow State University.

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UDC 537.312.62

LIKHAREV, K. K.

"Linear Electrodynamics of Superconducting Films of Finite Width"

Gor'kiy, Izvestiya Vysshikh Uchebnykh Zavedeniy, Radiofizika, Vol XIV, No 6, 1971, pp 909-918

Abstract: A study is made of the linear electrodynamics of strips of a thin superconducting film. The current distribution in such strips is found, and the energy relations and equivalent diagrams are obtained. It is demonstrated that when executing effective superconducting nonlinear reactive elements for microwave systems it is necessary to use very narrow film strips.

In superconducting film strips there is a significant "transverse Meissner effect" even if the thickness of the strips is much less than the depth of penetration of the magnetic field. The sufficient condition of uniform current and field distribution in cylindrical films is smallness of the transverse cross section by comparison with the square of the depth of penetration. Sufficiently (μ is the power, l is the running geometric (outside) inductance of a strip), that is, only for very thin and narrow strips. Very small fields are required

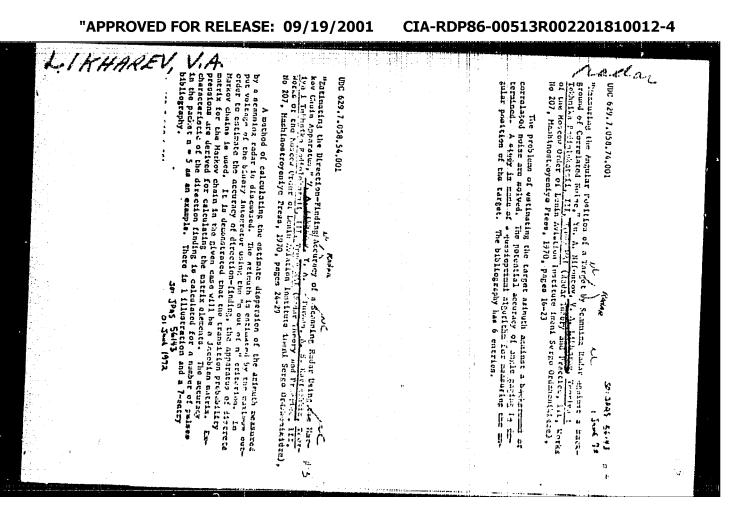
LIKHAREV, K. K., Izvestiya Vysshikh Uchebnykh Zavedeniy, Radiofizika, Vol XVI, No 6, 1971, pp 909-918

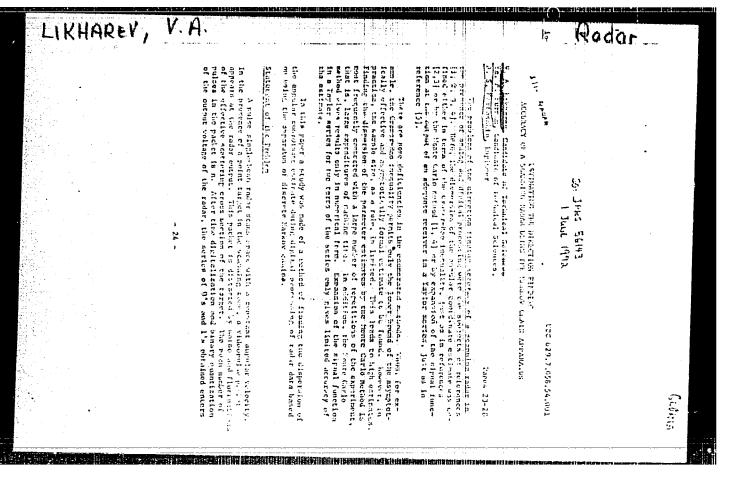
to realize Ginzburg-Landau nonlinearity [ZhETF (Journal of Experimental and Theoretical Physics), Vol XX, No 5, 1064, 1950] in a narrow film ring ($\mu \ll 1$).

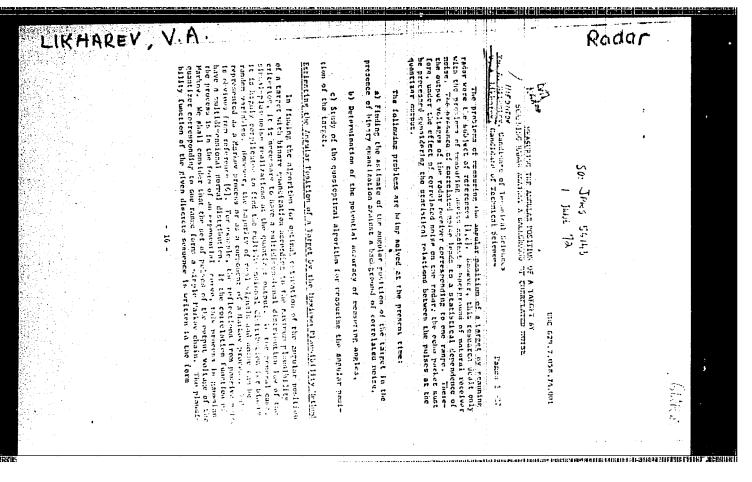
The basic equation of film strip systems, the Fredholm integral equations of the second type for the film systems, their basic characteristics, and dissipation in the system are analyzed.

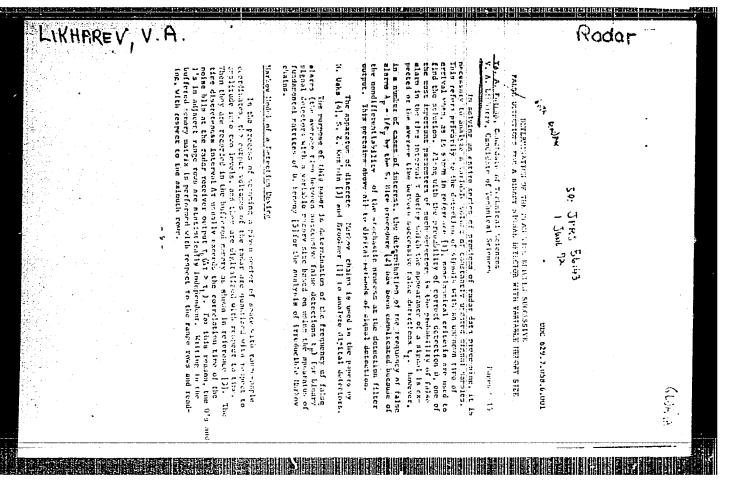
5/5

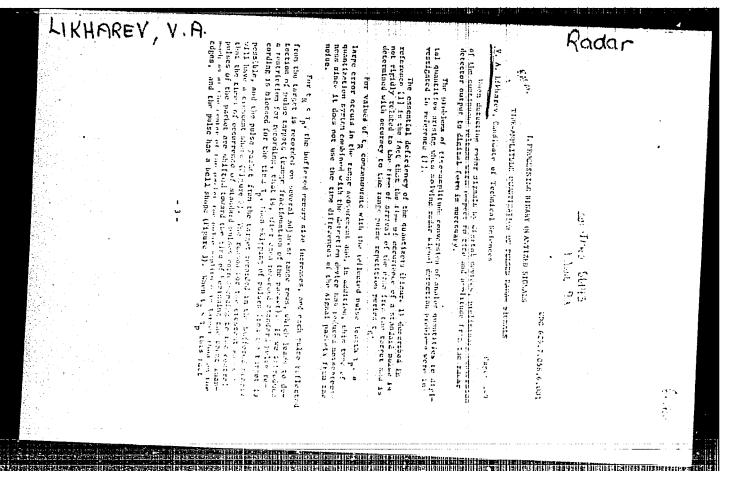
- 58 -











UDC 621.396.932.1

NIFONTOV, Yu. A., LIKHAREV, V. A.

"Measuring the Angular Position of a Search Radar Target Against a Background of Correlation Interference"

Tr. Mosk. aviats. in-ta (Works of Moscow Aviation Institute), 1971, vyp. 207, pp 15-22 (from RZh-Radiotekhnika, No 12, Dec 71, Abstract No 12678)

Translation: Solutions are found for problems of evaluating the azimuth of a target against a background of correlation interference. Potential accuracy is determined. A quasioptimum algorithm for measuring the angular position of the target is studied. Bibliography of six titles. Resumé.

1/1

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

UDC 621.396.932.1

LIKHAREV, V. A., FURMAN, Ya. A., KARTASHKIN, A. S.

"Using the Apparatus of Markov Chains to Evaluate the Accuracy of Direction Finding With a Search Radar"

Tr. Mosk. aviats. in-ta (Works of Moscow Aviation Institute), 1971, vyp. 207, pp 23-28 (from RZh-Radiotekhnika, No 12, Dec 71, Abstract No 12677)

Translation: A method is outlined for calculating variance in estimating the azimuth measured by a search radar. The azimuth is evaluated from the maximum output voltage of a binary integrator utilizing an "m out of n" criterion. The apparatus of discrete Markov chains is used to evaluate the accuracy of direction finding. It is shown that the matrix of transition probabilities for the given case is a Jacobi matrix. Expressions are presented for calculating the elements of the matrix. The accuracy characteristics of direction finding are calculated for the packet n=5 as an example. One illustration, bibliography of 7 titles. Resumé.

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UDC 621.372.332.3:621.391.837.42

LIKHAREV, V. A.

"Amplitude-Time Quantization of Pulse Radar Signals"

Tr. Mosk. aviats. in-ta (Works of Moscow Aviation Institute), 1971, vyp. 207, pp 4-9 (from RZh-Radiotekhnika, No 12, Dec 71, Abstract No 12627)

Translation: The paper deals with problems of amplitude-time quantization of pulse radar signals. A device is proposed which is free of the disadvantages of conventional quantizers: low accuracy in range finding by a packet of binary quantized signals and low interference suppression. Relations are presented for calculating the probability that the threshold of amplitude quantization will be exceeded by surgest of noise and of the signal with noise. Five illustrations, bibliography of three titles. Resume.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

Radar

USSR

UDC 621.371.332.3:621.391.883.6

FURMAN, Ya. A., LIKHAREV, V. A.

"Determination of the Average Time Between Successive False Detections for a Binary Signal Detector With Variable Storage Volume"

Tr. Mosk. aviats. in-ta (Works of Moscow Aviation Institute), 1971, vyp. 207, pp 9-15 (from RZh-Radiotekhnika, No 12, Dec 71, Abstract No 12G9)

Translation: The paper deals with problems in determining the average number of false targets (the average time between successive false detections) in a survey sector assuming uncorrelated interference for detectors with unknown time of arrival of the signal from the target when nonclassical criteria are used for decision making. A relation is found for the average time between successive false detections as a function of the quantization threshold. Two illustrations, one table, bibliography of five titles. Resumé.

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Radar

USSR

UDC 621.396.96

LIKHAREV, V. A. and KAPUSTIN, V. A.

"Detecting the Trajectory of a Target Using Surveillance Radar Data"

Moscow, Radiotekhnika, Vol 26, No 3, 1971, pp 4-9

Abstract: The authors present an optimal lock-on algorithm which resulted from a more general type of algorithm for detecting a Markovian signal against a Markovian interference background for discrete time and discrete phase space. Taking into consideration the broad prevalence of "k from n" type criteria, the authors consider methodology for determining the accumulated probabilities for correct and false automatic lock-on and the mean decisionmaking time both in the presence and absence of intersurveillance correlation. The structure of the optimal trajectory detector is given where the automatic lock-on unit is a digital automation which is realized by a program method in a specialized electronic, digital computer. Original article: two figures, three tables, six formulas, and 10 bibliographic entries.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

USSR

UDC 621:396.96

LIKHAREV, V. A., KARTASHKIN, A. S., and LEBEDEV, Ye. R.

"Digital Range-Finding and Moving-Target Selection"

Kiev, Izvestiya VUZov SSSR-Radioelektronika, Vol 13, No 2, 1970, pp 192-204

Abstract: This is a review of the bibliography dealing with digital processing of radar information, which is widely used for detecting signals in background noise and clutter. The subjects considered in this review are digital multichannel detectors and range-finders, tracking range-finders. Doppler filters, devices for detecting signals of moving targets by using trajectory attributes, and digital devices for intra-period subtraction. Range measurement is discussed first. In analog range measure, information is first accumulated for all distances, and then the delay time is estimated; in digital range neasure, an analog-digital transfermation is made first, then the delay time is measured. The block diagrams of several range systems are presented and discussed. Similar diagrams for digital range-tracking systems and digital devices for selecting moving targets are also shown and explained. Thirty-five references are listed in the bibliography at the end of this article.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

1/2 030 UNCLASSIFIED PROCESSING DATE--020CT70
TITLE--DIGITAL RANGE FINDING AND MUVING TARGET SELECTION -U-

AUTHOR-(03)-LIKHAREV, V.A., KARTASHKIN. A.S., LEDEV. YE.K.

COUNTRY OF INFO--USSR

SOURCE-KIEV. IZVESTIYA VUZOV SSSR-RADIOELEKTRONIKA. VOL 13, NO 2, 1970,

PP 192-204

DATE PUBLISHED----70

SUBJECT AREAS-NAVIGATION

TUPIC TAGS--SIGNAL DETECTION, RADAR SIGNAL PROCESSING, RADAR RANGE FINDING, MOVING TARGET INDICATOR, RADAR RANGE TRACKING

CONTROL MAPKING-NO RESTRICTIONS

OCCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1991/0150

STEP NO-+UR/0452/ 10/013/002/0192/0204

CIRC ACCESSION NO--APO110116

UNCLASSIFIED

PROCESSING DATE--020CT70 **UNCLASSIFIED** 2/2 030 CIRC ACCESSION NO--APOLIO116 ABSTRACTZEXTRACT--(U) GP-O- ABSTRACT. THIS IS A REVIEW OF THE BIBLIGGRAPHY DEALING WITH DIGITAL PROCESSING OF RADAR INFORMATION, WHICH IS WIDELY USED FOR DETECTING SIGNALS IN BACKGROUND NOTSE AND CLUTTER. THE SUBJECTS CONSIDERED IN THIS REVIEW ARE DIGITAL MULTI CHANNEL DETECTORS AND RANGE FINDERS, TRACKING RANGE FINDERS, DOPPLER FILTERS, DEVICES FOR DETECTING SIGNALS OF MOVING TARGETS BY USING TRAJECTORY ATTRIBUTES. AND DIGITAL DEVICES FOR INTRA PERIOD SUBTRACTION. RANGE MEASUREMENT IS DISCUSSED FIRST. IN ANALOG RANGE MEASURE, INFORMATION IS FIRST ACCUMULATED FOR ALL DISTANCES. AND THEN THE DELAY TIME IS ESTIMATED: IN DIGITAL RANGE MEASURE, AN ANALOG DIGITAL TRANSFORMATION IS THE BLUCK DIAGRAMS OF MADE FIRST. THEN THE DELAY TIME IS MEASURED. SEVERAL RANGE SYSTEMS ARE PRESENTED AND DISCUSSED. SIMILAR DIAGRAMS FOR DIGITAL RANGE TRACKING SYSTEMS AND DIGITAL DEVICES FOR SELECTING MOVING TARGETS ARE ALSO SHOWN AND EXPLAINED.

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--300CT70

TITLE-CERTAIN PROBLEMS OF LOW TEMPERATURE TENSOMETRY -U-

AUTHOR-(03)-BOGAYCHUK, V.I., KOZLOV, I.A., LIKHATSKIY, S.I.

COUNTRY OF INFO--USSR

SOURCE-PROBLEMY PECCHNOSTI, VOL. 2. MAR. 1970, P. 86-89

DATE PUBLISHED----70

SUBJECT AREAS-METHODS AND EQUIPMENT, PHYSICS

TOPIC TAGS-TENSILE TEST. STRAIN MEASURING INSTRUMENT, LOW TEMPERATURE

CENTROL HARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME---2000/1230

STEP NO-UR/3663/70/002/000/0086/0089

CIRC ACCESSION NO--APO124884

UNCLASSIEIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

2/2 021 UNCLASSIFIED PROCESSING DATE - 300C170
CIRC ACCESSION NO--AP0124884
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. DISCUSSION OF SOME PROBLEMS IN LOW
TEMPERATURE TENSOMETRY WITH RESPECT TO ITS APPLICATION FOR STUDYING THE
STRESS STRAIN STATE OF TUBINE DISKS OPERATING AT TEMPERATURES DOWN TO 77
DEG K. THE EFFECTS OF LOW TEMPERATURE ON THE STRAIN SENSITIVITY
COEFFICIENT OF SENSORS ARE ESTIMATED. THE FORMATION OF FICITIOUS
STRAINS AND THE POSSIBILITY OF THEIR DEFECTION ARE DISCUSSED.
FACILITY: AKADEMIIA NAUK UKRAINSKOI SSR, INSTITUT PROBLEM PROCHNOSTI,
KIEV, UKRAINIAN SSR.

UMCLASSIFIED

UDC 533.697

KOPELEV, S. Z., LIKHERZAK, YE. YE. and LEV, S. G.

"On the Computation of Parameters for a Lattice with Air Cooling"

Moscow, Gazoturbin. i kombinir. ustanovki (Gas-Turbine and Combined Installations, Collection of Works), 1971 (1972) pp 118-125, (from Referativnyy Zhurnal -- Makhanika, No 4, 1973, Abstract No 48368 by A. G. Plotkina)

Translation: In place of the ordinarily used estimate the flow irregularity with the value of the amplitude of the parameter variation, it is proposed to use the coefficient of irregularity, determined independently from two different conservation equations. Thus, for example, the average velocity could be determined from the equation of the content of motion c=1/G, where $E=\int cdG$ and from the equation of kinetic energy flow c=1/G, where $E=\int cdG$.

Analogous expressions may be obtained for temperature and density from the state and flow-rate equations. On the basis of the work of Krokko (in the collection Osnovy gazovoy dinamiki [Fundamentals of Gas Dynamics], Moscow, Published by the Institute of Literature, 1963) two coefficients

 $\alpha = 1/T$ and $\beta = (c/c)^2$ are used for evaluation of flow irregularity. Using these coefficients (neglecting the loss of quantities of motion, noments and 1/2

KOPEIEV, S. Z., et al., Gazoturbin. i kombinir. ustanovki, 1971(1972) pp 118-

mechanical energy at the outer limits) the authors obtained a full system of conservation equations. The values of coefficients along and beta are obtained for a flat nouzle lattice with distances from the output edge z greater than or equal to 4 mm from the processing of experimental data produced with this equation. The greatest deviation from unity of the values of these coefficients (occurring in uniform flow) are observed near the root of the blade with along equal to 0.89 and beta to 1.12. At the mean diameter, along equals 0.965 and beta 1.06. Nonuniformity of flow was also investigated beyond the flat lattice with an edge blown through the output edge of different quantities of coolant up to 5% of the basic flow. It was shown that up to a value of the cooling flow approximately equaling 2% a loss of ram pressure occurs; at large values, ram pressure increases as a result of the introduction of additional mass and energy.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

VDC 51

TERNO, O. R., LIKHFEL'D, YU. I.

"Notes on Hybrid Functions"

V sb. <u>Sistemotekhnika</u> (Systems Engineering--collection of works), Kiev, 1971, pp 319-329 (from <u>RZh-Kibernetika</u>, No 12, Dec 72, Abstract No 12V384)

Translation: For more on hybrid functions see the article by the author (RZh-Matematika, 1967, 6V323)

1/1

Mining, Petroleum, Geological

USSR

UDC 621.43,011:533;621.5:533

BOGDANOV, G. G., MASLYAYEV, A. Ye., LI KHI UN

Determining the Aerodynamic Parameters for Electrical Modeling of the Resistance of Soils in a Collapsed Space"

Tr. Vost. NII po bezopasn. rabot v gorn. prom-sti (Works of the Eastern Scientific Research Institute on Operational Safety in the Mining Industry), 1972, Vol. 12, pp 144-149 (from RZh-Mekhanika, No 3, Mar 73, Abstract No 3B412)

Translation: The movement of air in collapsed soils in the development of a sluice system and the intermediate law governing motion which was established as a result of the study are discussed. The serodynamic parameters were found by mathematical means: the permeability coefficients and the macroroughness which enter into the equation for the intermediate law of motion for the air. The quantitative values of these parameters obtained for different motions of the air were determined experimentally under mining conditions. It was also established that the permeability coefficient varies in inverse proportion to the change in the linear aerodynamic resistance and that the roughness is inversely proportional to the change in the square of the aerodynamic resistance.

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CIA-RDP86-00513R002201810012-4"

APPROVED FOR RELEASE: 09/19/2001

BOGDANOV, G. G., et al, Tr. Vost. NII po bezopasn. rabot v gorn. prom-sti, 1972, Vol. 12, pp 144-149

In absolute value the macroroughness is approximately equal to the roughness of concrete. A method for determining the aerodynamic parameters necessary for electrical modeling of the collapsed space and a graph of the dependence of the index of the air motion regime and the ratio of the pressure drops through the layer of collapsed soil before and after the change in the quantity of air entering the segment are given; the correlation coefficient between the above parameters was determined. Authors' abstract.

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1/2 008 UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--2, BENZOSELENAZOLYALKYL (ARYL) CARBINOLS -U-

AUTHOR-(02)-LIKHITSKAYA, V.S., BABICHEY, F.S.

COUNTRY OF INFO--USSR

SOURCE--KHIM. (GETEROYSIKL.) SOEDIN. 1970, (2), 164-6

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--BENEZE DERIVATIVE, ORGANOSELENIUM COMPOUND, HYDROXYL RADICAL, CHEMICAL SYNTHESIS

CONTROL MARKING--ND RESTRICTIONS

OOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1987/1113

STEP NO--UR/0409/70/000/002/0164/0166

CIRC ACCESSION NO--APO104511

TINCL ASSIPTED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

2/2 800 UNCLASSIFIED PROCESSING DATE--18SEP70 CIRC ACCESSION NO--APO104511 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. ET 3, (2, BENZOSELENAZOLYL) PROPIONATE (9.3 G) IN 0.1 L. ABS. ET SUB2 O WAS ADDED TO 2.22 G LIALH SUB4 IN 0.1 L. ABS. ET SUB2 O DROPWISE AT MINUS SODEGREES WITH STIRRING UNDER H AND THE MIXT. STIRRED I HR AT MINUS 5GDEGREES TO GIVE 71PERCENT I (X ABSENT) .: M. 36DEGREES, 8 SUBO.5 173-5DEGREES: 3.5.DINITROBENZOATE M. 114DEGREES: URETHANE M. 98DEGREES. SIMILARLY, WERE PREPO. I (X, PERCENT YIELD, M.P., B SUBO.Ol, M.P. 3,5. DINITROBENZOATE, AND M.P. URETHANE DERIV. GIVEN): CH SUB2. 84, 27DEGREES, 104DEGREES, 117DEGREES, 171DEGREES; 0,858, 45DEGREES, 122DEGREES, 115DEGREES, 215DEGREES; 5, 81, -, 138DEGREES, 105DEGREES (DIL. ALC.), 236DEGREES; NPH 89, 84DEGREES (PETROLEUM ETHER), -, 100DEGREES, 204DEGREES. STATEARLY, WERE PREPD. IT (X, PERCENT YIELD. M.P., M.P. 3,5, DINITROBENZOATE, M.P. URETHANE, AND M.P. PERCHLORATE GIVENI: CH. 94, 78DEGREES (PETROLEUM ETHER), BODEGREES, B3DEGREES (DIL. ALC.), 2070EGREES (ALC.); N. 95, 99DEGREES (DIL. ALC.), 196DEGREES, 180 DEGREES. -. I AND II GAVE QUATERNARY SALTS WITH ME SUB2 SO SUB4 OR MEI AND BROMIDES WITH PBR SUB3, WHICH YIELDED BENZOSELENAZOLIUM SALTS ON HEATING.

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Staria

It is suggested that an information description of unstable noise be G. A. Surbrov and A. M. Likhnitskiy (Leningrad)

averaged spectrum), using for this purpose the statistical envelope of the added to the power evaluation (mean power) and spectral evaluation (time-

P. (1) = 1 + | h(1) PU-11 'U'

ture of a signal. The effective width of the smoothing interval is assumed to the time window within which the human cur is insensitive to the phase strucwhere $P_{is}(t)$ is the statistical envelope of the process, P(t) is the instantannous sound pressure, h(t) is a weight function. Function h(t) describes

culties resulting from a delay in its protective reaction to sudden efforts by formation concerning the envelope of the noise process in the past. The minitheracteristics of the maint emiclope, It is assumed that the entiropy is used The affect of noise with a complex envelope is analyzed as the result of mes attainable uncertainty can be collectanted on the basis of the probability. filterice of an inistable stimulus being noted when its parameters are known in extrapolating future accours of appearance of a stimulus on the basic of inresult of this interaction, the organism develops a structly to mininke the biological affoct of the noise (so-tailed dynamic adaptation), the least ininteraction of the organism with a stimulus which churges with time; as the antunce. It is assumed that the human organism partially solves the diffias the bessure of untertainty.

short rectangular white noise pulses to in length. In the first approximation, In order to determine the acst characteristic properties of dynamic adapapproximate of the pulses required that the test subjects perform probability extrapolation on the basis of information on the preceding intervals between the initial moments of pulses (waiting intervals T(1)). Since the intervals tation, we studied the effects of unstable noise, an aperiodic sequence of this sequence follows Poisson's rule. The uncertainty of the moments of

CIA-RDP86-00513R002201810012-4" APPROVED FOR RELEASE: 09/19/2001

1/2 022 UNCLASSIFIED PROCESSING DATE--020CT70
TITLE--SATURATION WITH IRON OF TRANSFERRINE IN ECZEHA AND CERTAIN

DERMATOSES -U-

AUTHOR--LIKHNYAKEVICH, N.V.

COUNTRY OF INFO--USSR

SOURCE--VESTNIK DERMATOLOGII I VENEROLOGII, 1970, NR 3, PP 32-34

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--DERMATITIS, PROTEIN, IRON, OXIDASE, ENZYME ACTIVITY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY RELL/FRAME--1986/0689

STEP NO--UR/0206/70/000/003/0032/0034

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CIRC ACCESSION NO--AP0102673

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

CIRC ACCESSION NO--APOLO2673

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE STUDIES CARRIED OUT IN 158

PATIENTS WITH DIFFERENT DERMATIC DISEASES ESTABLISHED A MARKED REDUCTION
IN SATURATION WITH IRON OF THE IRON CONTAINING PROTEIN TRANSFERRINE AND
PARALLEL REDUCTION OF UNIDASE ACTIVITY OF COPPER CONTAINING ENZYME
CERULOPLASMINE IN SEVERE DERMATOSES SUCH AS ECZEMA, PSORIASIS, LUPUS
ERYTHEMATOSUS, VITILIGO. CALCULATION OF THE ENTHROPY OF THESE SYSTEMS
PERMITS EVALUATION OF THE EXTENT OF DISORDER OF THEIR REGULATION BY THE
ORGANISM DURRING THE DISEASE AND UNDER THE EFFECT OF TREATMENT.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

UNCLASSIFIED

USSR

011.701.763.1.317

LIKHOBABEREO, I. Ya., MERILDY, I. T., BASHIROV, I. M., and CHYPILOV, A. A.

"Machine for Spor-Welding Large Parks With Corvilinear Phofiles"

Kiev, Avtomaticheskaya Svarka, No 10, Oct 70, pp 67-68

Abstract: A description is given of a spot-welding machine developed by the Kalimin Polytechnical Institute in adoperation with the local branch of the All-Union Scientific Research Institute and the M. E. Bauden Madeou Higher Technical School. The tops of automobiles are given an examples of what is meant by curvilinear-profiled parts. Welding can be about on the machine without readjustments in going from one type of part to another. The machine has two small type GSK-40 double-electrode welding heads mounted on a radial girder and the rim of a ring capable of turning on its own axis. The machine has manual, automatic, and emergency drives, and other details of its operation, together with a diagram of the machine and its drive system, are given.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

WDC 546.821.669.295.543.53

UZEKOV, A. A., AKALAYEV, C. G., RISKIN, I. V., and TIKHOBITIN V. A.

"Application of Neutron Activation Analysis for Determination of Some Microimpurities in Titanium and the Study of Their Behavior in the Process of Corrosion"

Moscow, Zavodskaya Laboratoriya, Vol 38, No 7, 1972, pp 816-8:8

Abstract: W. Au, Mn, Cu, Mo, Na, and Ta were detected in specimens of technically pure titanium by using the method of nondestructive neutron activation analysis. Quantitative determination in titanium samples weighing 7-10 mg and irradiated with 3.1013 neutr/cm²-sec for 22 hr yielded 1.10-2% W. 6.10⁻⁷% Au, 3.10⁻²% Mn, 1.5·10⁻²% Cu, 2.10⁻²% Mo, and 7.10⁻¹% Ta. The possibility was investigated of using the Sc⁴7 radioisotope formed in the reaction Ti⁴7 (n,p) Sc⁴7 for determining the content of titanium in its alloys, as well as for studying the corrosion of titanium. Two tables, 2 figures, 4 references.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

USSR

UDC 621.762.001

LIKHOBABIN, V. A., MANTAROSHIN, A. P., PASHKOV, P. O., ROGOZIN, V. D.

"Shock Compacting of Metal Powders"

V sb. Metallovedeniye i prochnost' materialov. T. 3 (Physical Metallurgy and Strength of Materials. Vol 3.— collection of works), Volgograd, 1971, pp 272-285 (from RZh--Metallurgiya, No 4, Apr 72, Abstract No 4G384)

Translation: A study was made of the laws of shock compacting of metal powders, and the basic parameters determining the mechanical properties of the material obtained are discovered. Eight illustrations, 2 tables, and a 6-entry bibliography.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

WC 534.26

LIKHODAYEVA, YE. A., and SHENDEROV, YE. L.

"Peripheral Waves Arising During the Diffraction of a Plane Sonic Wave on a Thin Cylindrical Shell"

Moscow, Akusticheskiy Zhurmal, No 27, vyp 1, 71, pp 79-84

Abstract: This article investigates the sonic field in the region of the geometric shadow of an elastic cylindrical shell placed into a liquid. Computational analysis is made of the total field near the surface of the shell. It is shown that a frequency range exists for which the level of the field in the area of the geometric shadow substantially exceeds the field in the shadow of an absolutely soft cylinder. The substantial growth in the level of the field behind the elastic shell is explained by the excitation of weakly attenuating peripheral waves caused by bending escillations. Different types of peripheral waves propagating around the shell are classified from the watson transform. Photographs of the field scattered by the elastic shell are obtained on a device for visualizing the sonic fields, thus permitting the velocity of the peripheral waves surrounding the shell to be determined as 1.41.100 cm/sec; this value agrees with the computed values of the velocity

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

LIKHODAYEVA, YE. A., and SHENDEROV, YE. L., Akusticheskiy Zhurnal, No 27, vyp 1, 71, pp 79-84

of flexural waves in a plate, if the influence of the liquid on their propagation is taken into account.

This article contains 3 figures, 1 table, and 5 equations; eight literature references are cited.

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UDC: 669.71.053.4.067

LIKHODED, A. D., ZAPOL'SKIY, A. K., SAZHIN, V. S.

"Separation of Pulp After Roasting of Alunite Ores with Sulfuric Acid"

Vopr. Khimii i Khim. Tekhnol. Resp. Mezhved. Temat. Nauch.-Tekhn. Sb. [Problems of Chemistry and Chemical Technology. Republic Interdepartmental Thematic Scientific and Technical Collection], 1973, No 28, pp 141-150 (Translated from Referativnyy Zhurnal Metallurgiya, No 8, 1973, Abstract No 8G161, by G. Svodtseva).

Translation: The process of agglomeration of pulp after leaching of alunite cake roasted at 300° with full dosing of H₂SO₄ is studied. As the temperature is varied from 80 to 96°, the settling rate is increased by 6.2 times, the degree of clarification of the solution -- by 2.6 times. When the L:S ratio in the pulp is changed from 4.4:1 to 15.8:1, the settling rate increases from 0.035 to 1.59 m/hr, while the quantity of solids in the clarified layer decreases from 12.89 at L:S = 4.4:1 to 0.82 g/1 at L:S = 15.8:1. When 18 mg/dm² polyacrylamide is introduced to the pulp, the settling rate increases by 1.8 times, the quantity of solids in the clarified layer decreases by 5.1 times. The optimal filtration conditions are L:S = 12.1:1, temperature 96°, thickness of layer of sediment on filter 5 mm, polyacrylamide 18 mg/dm³.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

UDC 575.24/322.576/851

LIKHODED, L. YA., and SKAVRONSKAYA, A. G., Institute of Epidemiology and Microbiology imeni N. F. Gamaleya USSR Academy Medical Sciences, Moscow

"Mutagenesis Induced in Escherichia Coli WP2 by Continuous and Fractionated Irradiation With Ultraviolet Light"

Moscow, Genetika, Vol 7, No 5, 1971, pp 138-141

Abstract: The frequency of UV-induced mutations in the tryptophan locus of Escherichia coli was studied on 1-night-old broth cultures of strain WP2. The number of mutations induced by fractionated irradiation with ultraviolet light is considerably smaller than that induced by continuous irradiation of the same dose. However, fractionated and continuous irradiation, which produce the same percent of destruction of bacteria, also produce the same mutagenic effect. Under conditions which prevent DNA synthesis, excision repair is accompanied by a small number of errors or no errors, leading to the formation of UV-induced prototrophic revertants.

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- 18 -

WC 575.111.575.24.576.851.48

FILIPPOVA, L. M., LIKHODED, V. G., and RAPOPORT, I. A., Institute of Chemical Physics, Academy of Sciences USSR, and Scientific Research Institute of Vaccines and Sera imeni I. N. Mechnikov, Ministry of Health USSR, Koscow

"The Effects of N-Nitroso-N-Hethylurea on Escherichia Coli Strains Differing in Their Capacity for Excision Repair of DNA Lesions"

Moscow, Genetika, Vol 7, No 11, 1971, pp 130-135

Abstract: Mutagenic and lethal effects were produced in her and her coli K-12 strains by using different amounts of N-nitroso-N-nethylurea (NMU). Almost identical results were obtained on her and her strains. Strains were unable to repair the damaged chromosomes through excisions, and synthesized neither colicin Ei nor gamma prophages in any significant amounts. Since NMU, like all monoalkylating agents, exerts its effects by alkylating purine bases in DNA, it is suggested that the difference in the mechanism of action of monoalkylating and bialkylating agents may be responsible for the inactivation of the bacteria.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

UDC 576.851.214 (Enterocotcus).06

SHUSTER, B. YU., LIKHODED, V. G., SERGEYEV, V. V., YELKINA, S. I., and LITAREV, V. A., Moscow Institute of Vaccines and Sera ineni Mechnikov

"Transduction Analysis of the Virulence of Revertants of S. enteritidis Streptomycin-Dependent Mutants"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 12, 1971, pp 58-62

Abstract: Using the transduction method with phage P 22, the authors found that the virulence of avirulence of revertants of S. entericidis No 921 str-d mutants varied with the nature of the reverse mutation. Virulence was restored in the true revertants while the suppressor revertants remained avirulent. In transduction of markers from the virulent str-r strain to the suppressor avirulent revertants, the str-r transductants exhibited segregation with respect to virulence. The virulence of the transductants was due to substitution of the su-str gene suppressor for the su-str gene suppressor. It would appear, therefore, that mutation in the su-str gene suppressor results in the loss of virulence.

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Acc. Apo 045618_

Ref. Code: UR 0463

PRIMARY SOURCE:

Molekulyarnaya Biologiya, 1970, Vol 4, Nr 1,

pp 37-44

THE ROLE OF PROTEIN SYNTHESIS IN THE UY-INDUCTION

V. G.; Padalko. T. B.; Sayenko A. S.;

Institute for Vaccines and Sera Research, Ministry of Health, of the USSR, Moscow and Institute of Medical Rustiology, Academy of Medical Sciences, Obninsk, USSR

The role of protein synthesis in UV-induction of colicinogenic factor El was investigated. UV-induction was shown to depend on the presence of some protein(s) synthesized prior to UV-irradiation. During a lag period after tradiation protein synthesis was not required for UV-induction of colicinogenic factor. In new infected cells UV-induction and sygotic induction were shown to depend on protein synthesis just after the transfer of colicinogenic factor.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

Acc. Nr: AP0036815_

Ref. Code: UR 0016

PRIMARY SOURCE: Zhurnal Mil

Zhurnal Mikrobiologii, Epidemiologii, 1 Immunobiologii, 1970, Nr 1, pp 47-53

THE EFFECT OF DNA INHIBITORS ON THE TRANSFER OF COLICINOGENIC FACTOR I IN SALMONELLA TYPHIMURIUM

V. G. Likhoded, A. Z. Smolenskaya, T. V. Pervija, N. V. Balanin

5-fluorouracil, methothrexate, mitomycin C and nalidinic acid proved to inhibit the transfer of colicinogenic factor I during conjugation in S. typhimurium. It was shown that nalidixic acid did not influence the formation of effective contacts and did not kill the auxotrophic bacteria in the synthetic medium, but sharply reduced the colicinogenic transfer. However, the transfer of colicinogenic factor in some of the cells did not depend on DNA synthesis and failed to be depressed by nalidixic acid. It is suggested that the transfer of colicinogenic factor I during conjugation began after completion of its repication.

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UNCLASSIFIED PROCESSING DATE--20NOV/O
TITLE--RECOMBINATION OF CHARGE CARRIERS AT A RECTIFYING CONTACT BETWEEN
TON EXCHANGE MEMBRANES -U-

AUTHOR-(03)-LIKHGDED, V.N., MASLOV, V.N., ZOTOV, YW.A.

CCUNTRY OF INFO--USSR

SGURCE-ZH. FIZ. KEIM. 1970, 44[4], 1118-20

DATE PUBLISHED -----70

SUBJECT AREAS -- CHEMISTRY

TOPIC TAGS-ION EXCHANGE MEMBRANE, ANION, CATION, TON RECOMBINATION

CENTROL MARKING-NO RESTRICTIONS

PROXY REEL/FRAME--3005/0008

STEP NC+-UR/005T/T0/044/004/1118/1120

CIRC ACCESSION NO--APO132308

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| CONTACT BETWEEN ION EXCH | IANGE MEMBRANES | ARE INVESTIG | AVED. THE L | IFE TIME |
| OF THE MINORITY CARRIERS | IR PI EQUALS I | .6 TIMES LO | PRIMER NEGAT | IVE SEC. |
| WHILE THE EFFECTIVE DIFF | | | | |
| 2.4 TIMES 10 PRIME8 NEGA | TIVE CM. | FACILITY: | MUSK. INST. | TONKUI |
| HIM. TEKHNOL. IM. LGMCNG | SOVA, MOSCOW, U | SSR. | | |
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| 4 <u></u> | INCLASSIFIED | | : | |

UNCLASSIFIED

PROCESSING DATE--160CT70 TITLE--POSITRON ALLIANCE OF SCIENCE AND INDUSTRY +U-

AUTHOR-(02)-GERASIMOV, V., LIKHODIN, P.

COUNTRY OF INFO--USSR

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SOURCE-SOTSIALISTICHESKAYA INDUSTRIYA, MAY 12, 1970, P 2

DATE PUBLISHED -- 12MAY 70

SUBJECT AREAS--BEHAVIORAL AND SOCIAL SCIENCES

TOPIC TAGS--INDUSTRIAL INSTITUTE, INDUSTRIAL R AND D. INDUSTRIAL PLANNING

CONTROL MARKING -- NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/0165

STEP NO--UR/0533/70/000/000/0002/0002

CIRC ACCESSION NO--ANOLO2244

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

2/3 012 UNCLASSIFIED

PROCESSING DATE--160CT70

Maria (116) was made to find 1 2 million in the content and more intelligence as an

CIRC ACCESSION NO--ANOIO2244 THE ARTICLE REPORTS ON THE ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. OPERATIONS OF THE "POSITRON", A RESEARCH INDUSTRIAL COMPLEX ESTABLISHED IN LENINGRAD IN 1969. THE COMPLEX, OR CORPORATION, COMPRISES A SCIENTIFIC RESEARCH INSTITUTE WITH A PILOT PLANT, THE CENTRAL DESIGN BUREAU OF TECHNOLOGY AND EQUIPMENT (TSKBTO) WITH ITS OWN PILOT PLANT, AND INDUSTRIAL PLANTS WITH THEIR BRANCHES DUTSIDE LENINGRAD. PREVIOUS TO ITS ESTABLISHMENT, TWO OF THE POSITRONS, PLANT, THE "MESON" AND THE "KULON", OPERATED IN THE "RADIODETAL" CORPORATION. THE GENERAL DIRECTOR OF THE CORPORATION HEADS THE RESEARCH INSTITUTE AND ITS PILOT HIS FIRST DEPUTY DIRECTS THE RESEARCH PROGRAM OF THE INSTITUTE PLANT. AND HOLDS THE POST OF CHIEF ENGINEER OF THE RESEARCH INSTITUTE. DEPUTY DIRECTOR FOR PRODUCTION IS AT THE SAME TIME THE CHIEF ENGINEER OF THE INSTITUTE'S PILOT PLANT, WHILE THE THIRD DEPUTY FOR MECHANIZATION ALSO HOLDS THE POST OF THE DIRECTOR OF THE TSKETU AND ITS PILOT PLANT. THE CORPORATION AS A WHOLE IS MANAGED BY THE RESEARCH INSTITUTE THROUGH THE DEPARTMENTS PREPARE THE DIRECTIVES, SUCH AS ITS DEPARTMENTS. FINANCIAL AND PRODUCTION PLANS, OR MANPOWER AND WAGES, TECHNICAL AND ORGANIZATIONAL INNOVATIONS, ETC. THE PRODUCTION PLAN OF THE "POSITRON" IS PREPARED BY ITS PLANNING ECUNOMICS DEPARTMENT AND IS APPROVED BY THE ON THE BASIS OF THIS PLAN THE DEPARTMENTS DRAFT PLANS FOR EACH INDUSTRIAL PLANT OF THE CORPORATION. THE DEPARTMENTS OF CHIEF MECHANICAL ENGINEER. CHIEF TECHNOLOGIST: AND SCIENTIFIC TECHNICAL INFORMATION ALSO MANAGE THEIR COUNTERPARTS AT PLANTS.

TINCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

-3/3. 012 UNCLASSIFIED CIRC ACCESSION NO--ANO102244 PROCESSING DATE--160CT70 ABSTRACT/EXTRACT-- IN CONTRAST TO A PURELY INDUSTRIAL CORPORATION. THE "POSITRON" HAS SPECIAL TEAMS FOR DIRECT MANAGEMENT OF RESEARCH EFFORTS. FUR EXAMPLE, A SPECIAL TEAM OF THE FINANCIAL ECONOMICS DEPARTMENT COLLABORATES WITH THE ENGINEERING DEPARTMENT IN OPERATIONAL AND LONG RANGE PLANNING OF RESEARCH AND DEVELOPMENT AND ETS FUNDING, AS WELL AS THE COURDINATION OF ACTIVITIES OF RESEARCH SECTIONS. CORPORATION AND ITS PILOT PLANT ARE RESPONSIBLE FOR THE DEVELOPMENT OF THE TSKBTO OF THE SPECIAL EQUIPMENT, NEEDED FOR PRODUCTION, MECHANIZATION, AND AUTOMATION THE RESEARCH AND PRUDUCTION POLICIES OF THE "POSITRON" ARE SET BY ITS SCIENTIFIC TECHNICAL COUNCIL. ASSOCIATES OF THE INSTITUTE, DIRECTORS OF PLANTS AND DEPARTMENT HEADS ARE MEMBERS OF THE COUNCIL. UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

1/2 C19 UNCLASSIFIED PROCESSING DATE--20NOV70
TITLE-THISE BECCO GROUPS IN PATIENTS SUFFERING FROM HYPCTHYROLUISH -U-

AUTHOR-1021-UCOD, V.M., LIKHODDY, S.S.

CCUNTRY OF INFO-USSR

SCURCE--PROBL ENDOKRINGE 15(1): 12-14, 1970

DATE FUEL ISHEC----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TGPIC TAGS-THIOL, BLOUD PROTEIN, BLOOD SERUM, AMPEROMETRIC TITRATION, THYRGIO GLAND

CENTROL MARKING-NO RESTRICTIONS

DGCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/0258

STEP NO--UR/0502/70/016/001/0012/0014

CIRC ACCESSION NO--APO134063

2/2 019 UNCLASSIFIED PROCESSING DATE--20NOV70 CIRC ACCESSION NU--AP0134063 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE AMPERGHETRIC TITRATION METHOD HAS APPLIED TO EXAMINATION OF THE CONCENTRATION OF PROTEIN THIOL GROUPS IN THE BLOOD SERUM OF 29 PATIENTS SUFFERING FROM HYPOTHYROLOGSIS. THE CONTENT OF FREE SULFHYDRYL GROUPS IN THE BLOCK SERUM WAS ELEVATED (BY 30. 3PERCENT ON THE AVERAGE) IN COMPARISON WITH HEALTHY INDIVIDUALS. THE RISE IN THE CONCENTRATION OF SULFHYDRYL GROUPS WAS PROPERTIONAL TO THE SEVERITY OF HYPOTHYROLOISM. FACILITY: DEP. SIDCHEM., TSELINGGRAD MED. INST., TSELINGGRAD, USSR. UNCLASSIFIED

VDC 629.12.001.72

क्षणे क्षण करेता है जो क्षण करेता है जो कर है कि कार कार कार कार किया है की कि का अने कि का अने कि का कार कार क

LIKHOMANOV, V. A. and FADEYEV, O. V.

"Determination of the Coefficients of Pliancy in the Elastic Scaling of Ribs During the Action of an Ice Load"

Leningrad, Ledovyye Kachestva Sudov (Ice Properties of Ships), Gidromsteoizdat, 1973, pp 148-153

Abstract: A simplified method is proposed for determining the coefficients of pliancy in the elastic sealing of ribs in the presence of transverse stresses. Calculation formulas and graphs are presented for the case of the installation of one, two, or three stringers. An example is given of the calculation of a rib by means of the proposed graphs. 2 figures. 1 table. 2 references.

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1/3 Q14 UNCLASSIFIED

PROCESSING DATE-- 20NOV70

Haristottanientinosofficianista.

TITLE-COMPLEXING OF 2,2, THIAZOLYLAZO, 1,8, DIHYDROX +3,6,

NAPHTHALENEDISULFCNIC ACID DERIVATIVES WITH METAL IONS -U-

AUTHOR-(G4)-SAVVIN, S.B., ROZUVSKIY, YU.G., PROPISTSOVA, R.F., LIKHONINA,

YE.A.

CCUNTRY OF INFC--USSR

SOURCE-ZH. ANAL. KHIM. 1970, 25(3), 423-9

DATE PUBLISHED----70

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diministra.

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS--AMINE, THIAZOLE, ALUMINUM COMPLEX, THORIUM COMPOUND, GALLIUM COMPOUND, ZIRCONIUM COMPLEX, NAPHTHALENE, SULFONIC ACID, POTENTIOMETRIC TITRATION, ANALYTIC CHEMISTRY

CENTROL MARKING-NO RESTRICTIONS

DCCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/2092

STEP NO-+UR/0075/70/025/003/0423/0429

CIRC ACCESSION NO--AP0125678

031312261360

PROCESSING DATE--20NOV70 UNCLASSIFIED 2/3 CIRC ACCESSION NO--APO125678 ABSTRACT/EXTRACT--(U) SP-C+ ABSTRACT. NEW REAGENTS BASED ON VARIOUS DERIVS. GF 2. AMINOTHIAZOLE AND CHROMOTROPIC ACID WERE SYNTHESIZED AND THEIR COMPLEX FORMATION WITH THE ZR, GA, AND AL WAS STUDIED. THE REAGENTS ARE RED POWDERS: IN THEIR H FORM AND WELL SOL. IN H SUB2 O. HOOME SUB2, AND MECH. AC. SOLNS. OF THE REAGENTS ARE NOT STABLE. THE INTENSITY AND COLOR OF THE REAGENTS DEPENDS ON THE ACIDITY OF THE MEDIUM. THEY ARE BLUE GREEN COLORED IN A CONCO. H SUB2 SO SUB4, YELLOW IN 1-10N HCL, VIGLET IN THE PH RANGE 1-5, RED CRIMSON IN THE PH RANGE 7-12, AND BLUE IN 10PERCENT KOH. THE PREPN. AND BEHAVIOR OF 4.5. DIMETHYL. 2. THIAZOLYLAZOCHROMOTROPIC ACID (II IS DESCRIBED IN DETAIL. I CAN BE REPRESENTED AS A 4 BASIC ACID. THE 1ST EQUIL. POINT ON THE POTENTIOMETRIC FITRN. CURVE REPRESENTS THE NEUTRALIZATION OF 2 SULFO GROUPS, THE 2ND POINT THE TITRN. OF THE 1ST OH GROUP OF THE NAPHTHALENE MUCLEUS. THE DISSOCN. OF THE 2ND OH GROUP TAKES IN THE ALK. REGION. IN THE ACID REGION I FORMS 2 PROTONIZED FORMS, AT PH IS SMALLER THAN I A YELLOW THISZOLYL CATION WITH MAX. ABSORBANCE AT 480 NM AND IN CONCO. H SUBZ SO SUB4 A 2ND PROTONIZED FORM WITH MAX. ABSORBANCE AT 640 MU M. I REACTS WITH SEVERAL ELEMENTS, GIVING VERY CONTRASTING COLORS WITH AL, ZR, TH, AND GA. I FORMS WITH AL 2 DIFFERENT COMPLEXES. IN AQ. SOLNS. AT PH 3-4 THERE IS A BLUE COMPLEX WITH MAX. ABSORBANCE AT 590 NM AND THE 2ND COMPLEX IS FORMED AT PH 1-2.5 REGION. THIS COMPLEX IS BLUE GREEN AND HAS A HIGH MOLAR ABSORPTIVITY. IN A AG. ALC. SOLN. ONLY THE ZND CCMPLEX FORMS WITH MAX. ABSORBANCE 630 NM. TEMP. AND ORDER OF ADDN. DC NOT AFFECT THE YIELD OF THE COLURED COMPLEX. AL AND I REACT IN A 1:1 MGLAR RATIO. UNCLASSIFIED.

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| CIRC ACCESSION NOAPO125678 ABSTRACT/EXTRACTFACILITY: | INST. | GEOCHEM. | ANAL. | CHEM | MOSCOW. | USSR. |
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BURTOV, A. I., GRUSHVITSKIY, R. I., METTER, E. Ya., PETROV, V. A., PLATONOV, V. V., SAVUTKIN, V. V., VEDESHENKOV, V. A., VOLKOV, A. F., ZENKIN, V. D., LIKHONINSKIY, V. S., and SOROKIN, G. K.

"Computer Device"

Moscow, Otkrytiva, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 27, 1972, p 162, No (11) 351216

Translation: This patent describes a computing device containing resolving modules with decoupling cells at the power supply inputs. It also has a control block connected to the inputs of a switching block and an efficiency indicator. Every output of the switching block is connected to the control input of one of the decoupling cells, thus improving the reliability of the device.

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Acc. Nr. 190036982

Abstracting Service: CHEMICAL ABST. 4_70

Ref. Code

amamiil^{gil}

of oxygen converters. Likhoradov. A. P.; et al. (Novolipetsk. Met. Zavod. USSR). Ognetpory 1970, 35(1), 5-11 (Russ). A study of wear of lining of converters led to a change in the shape of the inner contour of the lining and to the introduction of differentiated pieces. Pitch (coke residue < 100%)—dolomite, and periclase—spinel refractories were used for the surfaces most attacked by erosion, i.e. vessel mouth and top and bottom cylindrical parts on the sides adjacent to the trunions. The diambility of the lining amounted to up to 646 blows, and the total amt. of refractories used was decreased to 2.95 kg/ton of steel. The way of economic feeding of the batch ingredients, the introduction of slag and blast regimes of the blow ensuring high alky, slag, decrease in blowing time, and the decrease of the no. of blows with after-blasts were also studied.

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19721913

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UDC 519.281

KIREYEV, N. G., DABAGYAN, A. V., LIKHOSHERST, N. V.

"Determination of Dynamic Parameters of Unstable Objects"

Tekhn. Kibernetika (Khar'kov. Otd.). Vyp. I [Engineering Cybernetics (Khar'kov Division), No. 1 -- Collection of Works] Kiev, 1970, pp 52-59 (Translated from Referativnyy Zhurnal Kibernetika, No. 4, April, 1971, Abstract No. 4 V205 by V. Noskov).

Translation: A linear unstable system is described by the system of equations

$$\dot{x}_{l} = \sum_{j=1}^{n} a_{lj}(l) x_{j}(l) + P_{l}(l) \quad (l = 1, 2, ..., n),$$

It is assumed that

$$a_{ij}(t) = \sum_{k=0}^{m} a_{ij}^{(k)} t^k, \ F_i(t) = \sum_{k=0}^{m} f_i^{(k)} t^k.$$

Using the least squares method, estimates are sought for the coefficients a (k) and f(k) with respect to known $x_i(t)$. The results of a mathematical experiment (n=6) are studied in detail in cases of various a priori information. In one version of the experiment, normal noise of known intensity is added to the observations $x_i(t)$.

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1/2 008 UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--CHEMISTRY AND MECHANISM OF THE ACTION OF ANESTHETICS -U-

AUTHOR-(02)-PYRANISHNIKOVA, N.T., LIKHOSHERSTOV, A.M.

COUNTRY OF INFO--USSR

SOURCE-ZH. VSES. KHIM. OBSHCHEST, 1970, 15(2), 207-16

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, BIOLOGICAL AND MEDICAL SCIENCES
TOPIC TAGS--ANESTHETIC, CHEMISTRY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3009/0125

STEP NO--UR/0063/70/015/002/0207/0216

CIRC ACCESSION NO--APO138990

UNCLASSIFIED

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| BSTRACT/EXTRACT(U) GP- | | A REVIEW | COVERING THE | PRINCIPAL |
| CLASSES OF ANESTHETIC S | UBSTANCES WIT | H EMPHASIS | ON AMENDALKY | ESTERS OF |
| ORG. ACIDS AND THEIR AM | IDE ANALOGS. | THE EFFECT | IS OF STRUCTUA | RAL CHANGES |
| ON ACTIVITY ARE SUMMARI | | IS RELATED | TO VARIATION | OF PHYSICO |
| CHEM. PROPERTIES IN GEN | ERAL. | | | |
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UNCLASSIFIED PROCESSING DATE--300CT70

TITLE--STRUCTURE OF THE CARBUHYDRATE CHAINS OF THE BLOOD GROUP SUBSTANCE

AUTHOR-(05)-KOCHETKOV, N.K., DEREVITSKAYA, V.A., LIKHOSHERSTUV, L.M.,

MARTYNOVA, M.D., SENCHENKOVA, S.N. COUNTRY OF INFO--USSR

SOURCE-CARBOHYD. RES. 1970, 12(3), 437-47

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-CARBOHYDRATE, BLOOD TYPE, PEPTIDE, ENZYME, CLOSTRIDIUM PERFRINGENS

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/0428

STEP NO--NE/0000/70/012/003/0437/0447

CIRC ACCESSION NO--APO117664 UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

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2/2 019 PROCESSING DATE--300CT70 UNCLASSIFIED CIRC ACCESSION NO--APO117664 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE STRUCTURE OF THE CARBOHYDRATE CHAINS OF BLOOD GROUP SUBSTANCE (A PLUS H) (BGS) IN THE REGION ADJACENT TO THE PEPTIDE BACKBONE WAS INVESTIGATED. TWO APPROACHES WERE USED: (I) A STUDY OF THE DEGRADATION OF BGS BY A COMBINATION OF CHEM. AND ENZYMIC (PREPN. FROM CLOSTRIDIUM PERFRINGENS) METHODS; AND (2) A STUDY OF THE ALK. DEGRADATION OF BGS BY MEASUREMENT OF THE ACCUMULATED PRODUCTS OF DEGRADATION OF N ACETYLHEXOSAMINES (3, ACETAMIDO, 5, DIHYDROXYETHYLFURAN) AND D GALACTOSE CHETASACCHARINIC ACID AND 5. HYDROXYMETHYL, 2. FURAL DEHYDE). THE CARBOHYDRATE PEPTIDE LINKAGE UNIT CONTAINS 2, ACETAMIDO, 2, DEDXY, D, GALACTUSE RESIDUES. DIRECTLY ADJACENT TO THIS REGION IS A CHAIN OF SEVERAL N ACETYLHEXOSAMINE RESIDUES BOUND BY (1 YIELDS 3) LINKAGES AND PARTIALLY BRANCHED AT C 6. FACILITY: INST. DRG. CHEM., MOSCOW, USSR. UNCLASSIFIED

| Acc. | Nr: 0018798 Abstracting Service Ref. Code: UR0366 | |
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| | 96198j Synthesis of ethers based on 2-alkory-A-dihydropy- rans. Likhosherstov, V. M.; Kopytova, L. P.; Krivoshiya, A. N. (USSR). Zh. Org. Khim. 1970, 6(1), 180-2 (Russ). The | |
| | rans. Likhosherstov V. M.; Kopytova, A. F. A. Ivosliva, A. N. (USSR). Zh. Org. Khim. 1970, 6(1), 180-2 (Russ). The | |
| | bromination of 2-butoxy-2,3-dihydropyran (I) with N-bromo- succinimide in benzene gave a rather unstable 4-bromo deriv- | |
| | (II) of I which formed tars in the presence of percisides, andines, | |
| | Mg, or during heating. However, II reacted with ROH (R = | |
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| | Et, Pr, or iso-Pr) contg. KOH to give 4-alkoxy-substituted derivs. | |
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UDC 662.215.2

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ZAKHAROV, S. D., LIKHOV, G. M., MIZYAKIN, S. D., MOSCOW

"Determination of Dynamic Compressibility of Soil on the Basis of Parameters of Flat Explosive Waves"

Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 1, 1972, pp 137-140.

Abstract: The dynamic compressibility of soil has been determined on the basis of experimental values of the parameters of flat, cylindrical and spherical explosive waves at stresses generally not exceeding 80-100, sometimes 250 kg/cm². This article presents results of experimental studics of flat waves at stresses of up to 1,000 kg/cm². These data are used to construct a stress-strain diagram corresponding to shock compression at the leading edge of the wave. The degree of compacting of the soil is determined. It is demonstrated that deformations continue to increase behind the leading edge of the wave. The residual deformations are greater than those that occur at the leading edge. This indicates a significant influence of viscous and plastic properties of soils on the wave process.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

PROCESSING DATE--11SEP70 UNCLASSIFIED TITLE--EFFECT OF SILICON DIOXIDE CONTENT ON THE PHYSICOMECHANICAL AND CATALYTIC PROPERTIES OF HYDROGRACKING CATALYSTS -U-AUTHOR--ROGOV, S.P., PEREZHIGINA, I.YA., AGAFONOV, A.V., SEMENOVA, YE.S., LIKHOVA, Z.V. COUNTRY OF INFO -- USSR SOURCE-KHIM. TEKHNOL. TOPL. MASEL 1970, 15(3), 8-11 DATE PUBLISHED ---- 70 SUBJECT AREAS--MATERIALS TOPIC TAGS--OXIDE CATALYST, ALUMINUM OXIDE, COBALT, MOLYBDENUM, SILICON DIOXIDE, MECHANICAL STRENGTH, PETROLEUM DESULFURIZATION, ISOMERIZATION, PETROLEUM HYDROCRACKING CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0065/70/015/003/0008/0011 PROXY REEL/FRANE--1990/2040 CIRC ACCESSION NO--APO109972 UNCLASSIFIED 11111111111

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| | ABSTRACT/EXTRACT(U | J) GP-O- ABSTRACT. SIO SUBE ST INCREASED ITS CRACKING AN | 10 ISOMERIZATION ABILITY, |
| i i | PRODUCING AN INCRE | EASE IN THE CONVERSION AND IN | THE RATIO OF ISO TO N |
| | HYDROGARBONS IN TH | IE GASEOUS AND LIQ. PRODUCTS. | THE MECH. STRENGTH DE |
| | THE CATALYST WITH | ADDED SID SUB2 INCREASED BY US ALSO INCREASED. THE DIESE | FRACTION OBTAINED WITH |
| 4.5 | SUCH A CATALYST HA | D A LOWER POUR POINT. THE C | ATALYST CONTG. 20PERCENT |
| * : | SIO SUB2 LOST ITS CONTG. 10PERCENT S | HYDRODESULFURIZATION ACTIVIT | Y MORE RAPIDLY THAN THAT |
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UDC 616.36-092.9-085.849.19

LAGUNOVA, I. G., SAVCHENKO, Ye. D., GARVEY, N. N., LINGUIS BENEFIT SHAMAYEVA, G. G., KLIMOV, A. D., and MOGUTOV, V. I., Moscow, Scientific Research Institute of Roentgenology and Radiology, Ministry of Health RSFSR

"The Effects of Neodymium Laser Irradiation on the Rat Liver"

Leningrad, Voprosy Onkologii, Vol 18, No 1, 1972, pp 91-94

Abstract: Single irradiation of a 2 by 5 mm abdominal area over the rat liver with pulsed neodymium laser rays with initial energy of 100-200 joules and incident density of 1000-4000 joules/cm² causes local injury to the liver tissue, ranging from degenerative changes to complete necrosis. Destruction of blood vessels occurs in the central zone and paralytic vasodilation with edema in the peripheral zone. Proliferation of fibroblasts begins after 5 days, and a capsule is formed around the injured area. Connective tissue cells and bile capillaries grow toward the necrotic center along with blood vessels. Eventually, hepatocytes, lymphocytes, and macrophages appear. On the 20th day, the necrotic area is filled with patches of new hepatic parenchyma. After stronger irradiation (3000-4000 joules/cm²), the injury is more severe and recovery slower.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

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UDC 616-006.81-033.2-0B5.849.19

LAGUNOVA, I. G., VISHNEVSKIY, A. A., Jr., LIKHOVETSKAYA, I. L., ROZENFEL'D, E. B., and RAZYGRIN, B. A., Institute of Surgery Inell A. Vishnevskiy, Academy of Medical Sciences USSR, and Moscow Scientific Research Institute of Roentgenology and Radiography

"Possibility of Treating Melanoma Metastases With Laser Radiation"

Moscow, Eksperimental naya Khirurgiya i Anesteziologiya, No 5, 1971, pp 50-53

Abstract: In a 22-year-old female with multiple metastatic melanomas that did not respond to X-irradiation or chemotherapy, neudymium laser radiation resulted in the rapid destruction of 52 of 58 tumors (90%). During the following 4 menths recurrences occurred in only 3 nodes. There were eight radiation sessions extending over a period of 6 weeks, with 10 to 20 tumors treated each time. The patient's condition remained satisfactory throughout. The eschar produced by the radiation fell off spontaneously 14 to 25 days later, revealing a pink soft scar at the tumor site which fell off after 1 to 2 months. The color of the underlying tissue was the same as that of the surrounding skin. Neither combination of X- and laser rays nor multiple-field irradiation produced as good immediate results as did laser radiation alone.

WC 621.38.61

LAGUNOVA, I. G., LIKHOVETSKAYA. L. L., VISHNEVSKIY, A. A., ROZENFEL'D, E. B., RAZYGRIN, B. A., VANYUKOV, M. P., and MALYSHEV, B. N.

"Irradiation of Metastases of Melanoma By Pulsed Laser"

V. sb. Ispol'z. optich. kvant. generatorov v sovrem. tekhn. i med. Ch. 203 (Use of Lasers in Contemporary Technology and Medicine. Parts 2-3 -- Collection of Works), Leningrad, 1971, p 102 (from RZh Elektronika i yeye Primeneniye, No 2, Feb 72, Abstract No 2A508)

TRanslation: Kelanomas are first among primary malignant tumors which metastasiz to the skin, Use of laser emission in such cases is advisable in view of the possibility of simultaneous irradiation of several dozen tumor sites. Type GOS-500 and GOS-1000 pulsed neodymium lasers operating in a free pulse generation modes were used for irradiation. The output energy of the pulse fluctuated from 100 to 500 joules. The total density of the incident energy at the metastatic tumor varied from 1,000 to 5,000 joules/cm2. Summary.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

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UDC 621.38:61

SHAMAYEVA, G.G., CHEKHLOV, V.I., LIKHOVETSKAYA, L.L.

"To The Problem Of The Precision Of Definition Of The Energy Density Of Laser Emission During Irradiation Of Experimental Animals"

V sb. Ispol'z. ontich. kvant. generatorov v sovrem. tekhn. i med. Ch.2-3 (Use Of Lasers In Contemporary Technology And Medicine. Parts 2-5--Collection Of works), Leningrad, 1971, pp 89-90 (from RZh:Elektronika i yeyo primeneniye, No 2, Feb 72, Abstract No 2A506)

Translation: The principal factors are considered which influence the precision of definition of the energy density during irradiation, among them the precision of definition of the object distance, the effect of the focal distance of the optical system, and the effect of the curvature of the surface irradiation. Optimum geometrical conditions of irradiation are selected for an energy density in the range of 1,000-10,000 Joule/cm². T.V.

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USSR

UDC: 621.396.6-181.5

BIRYUKOV, V. K., LIKHOVETSKIY, B. P.

"Making Contact Between Microelements in Flat Micromodules"

V sb. Obmen opytom v radioprom-sti (Experience Pooling in the Radio Industry --collection of works), vyp. 1, Moscow, 1971, pp 50-51 (from RZh-Radiotekh-nika, No 5, May 71, Abstract No 5V161)

Translation: The paper deals with problems of making contact joints between microelements by the method of cementing with a current-conducting composition (contactol). It is shown that when the set standards for preparing the contactol are met and the material is properly used, contact joints can be made which are as reliable as soldered joints. Resume.

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UDC: 621.396.6-181.5

BIRYUKOV, V. K., LIKHOVETSKIY, B. P.

"Preparation of Contactol and Making Contactol Joints"

V sb. Obmen opytom v radioprom-sti (Experience Pooling in the Radio Industry --collection of works), vyp. 1, Moscow, 1971, pp 48-49 (from RZh-Radiotekh-nika, No 5, May 71, Abstract No 5V160)

Translation: The available experience on mounting microcircuits of various types and the results of lengthy and exhaustive testing of these circuits are taken as a basis for developing technological processes of preparing contactol and making contactol microcircuit joints. Resumé.

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UDC 534

GOLUBENTSEV, A. N., LIKHOVID

"On a Problem of the Optimization of Transfer Processes for Certain Mechanical

Dinamika i prochnost' mashin. Resp. mezhved. nauch.-tekhn. sb. (Machine Dynamics and Strength. Republic Interdepartmental Scientific-Technical Collection), 1971, No. 12, pp 90-95 (from RZh-Mekhanika, No 9, Sep 71, Abstract No 9A129)

Translation: The problem of optimization of the transfer process in a machine as a mechanical system consisting of a chain of discrete masses connected by elastic links is discussed. The problem reduces to solving a system of independent differential equations of a high order obtained from a system of differential equations of the motion of discrete masses of the system and written with respect to the elastic forces developed in the links during the transfer process. The equations of motion are integrated by constructing Cauchy integrals representing the response of the system to an external load of arbitrary form with preliminary substitution of the initial conditions of motion by an external load equivalent to them. It is shown what conditions the coefficients of the differential

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USSR

GOLUBENTSEV, A. N., LIKHOVID. P. I., Dinamika i prochnost' mashin. Resp. mezhved. nauch.-tekhn. sb., 1971, No. 12, pp 90-95

equation of motion (the parameters of the system) must satisfy in order that the maximum deviation of the elastic force with respect to its absolute value be the least under an external load limited with respect to the modulus. The problem is solved for the case when the characteristic equation has only purely imaginary roots. Authors abstract.

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UDC 552.1:552.321

BORUKHOV, M. Yu., KEYTLIN, L. G., KATSOYEVA, F. N. MILLER ON DOY, G. G., KHAMRABAYEV, I. Kh.

"Behavior of Rock During Heating in a Vacuum (Part II. Phase Composition and Physical-Mechanical Properties)"

Uzbekskiy Geologicheskiy Zhurnal, No 6, 1971, pp 16-22.

ABSTRACT: The influence of vacuum treatment on the composition of the crystallizing phases of three petrographic types of basic and ultrabasic rocks was studied using nine samples from Western Uzbekistan and Kanchatka. The possibility was established in principle of using the method of crystallization "from the bottom" for satisfactory identification of the crystalline phases formed. It was demonstrated that vacuum hent treatment has a significant influence on the composition of the crystallizing phases. The structural material. Apparently, optimal modes of production of high-quality structures and glasses can be found for each type of mineral raw material, vacuum. High iron and titanium contents of the initial raw material provide high light-protection characteristics of cast products.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

1/2 010
TITLE--BROWNIAN MOTION NEAR THE CRITICAL POINT OF LIQUIDS -U-

AUTHOR-(03)-GITERMAN, M.SH., LIKHT. M.K. SHTEYNBERG. V.A.

COUNTRY OF INFO--USSR

SOURCE--UKR. FIZ. ZH. (RUSS. ED.) 1970, 15(3), 405-9

DATE PUBLISHED ---- 70

SUBJECT AREAS -- PHYSICS

TOPIC TAGS-BROWNIAN MOTION, CRITICAL POINT

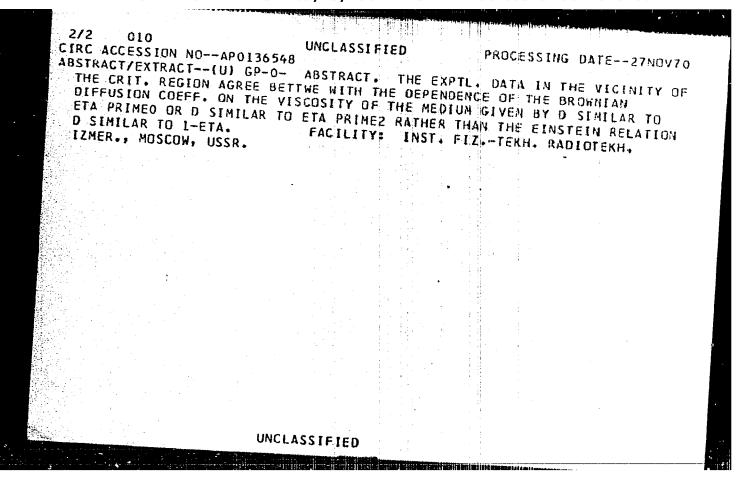
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/1128

STEP NO--UR/0185/70/015/003/0405/0409

CIRC ACCESSION NO--APO136548

UNCLASSIFIED



UDC 614,73:612.014.482(47)

USHAKOVA, A. P., LIKHTAREV, I. A., and MOISEYEV, A. A.

"'Population Dose' of Irradiation of the Population of the USSR from Global Cs137"

Moscow, Gigiyena i Sanitariya, No 7, Jul 70, pp 54-59

Abstract: An assessment is presented of the "population dose" for the entire Soviet people from incorporated global Cs17 ingested with food. The calculations are based on a model suggested by Lindell and subsequently used by the U.N. Scientific Committee on the Effects of Atomic Radiation to determine the amount of Sr90 accumulated as a result of nuclear tests. It is concluded that the "population dose" received in the Soviet Union is small as compared to the levels of background radiation. Hence, even a thorough examination of large groups of people would not be likely to reveal a statistically significant increase in the number of genetic and somatic effects due to incorporated Cs17. It is noted that the irradiation structure of a people may vary substantially in relation to the specific development of individual subpopulations, traditional local diets, and the presence or absence of so-called hot spots, i.e., regions with an unusual cesium ecology which are characteristized by exceptionally high Cs137 concentrations in foods of local origin and by the content of this radiomuclide in the indigenous inhabitants.

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USSR

KULIKOV, A. V., LIKHTENSHTEYN, G. I., ROZANTSEV, E. G., SUSKINA, V. I., and SHAPIRO, A. B.

"Possibility of Determining the Distance Between Functional Frotein Groups by the Spin-Label Method"

Moscow, Biofizika, No 1, 1972, pp 42-48

Abstract: A set of iminoxyl polyradicals with a known structure was used to analyze the possibility of determining the relative position of the spins of iminoxyl fragments from the shape and second moment of the ESR spectra of spin-labeled proteins (egg lysozyme, sperm whale myoglobin, and rabbit muscle myosin) at T = 77° K. The ESR spectra were found to be sensitive to the distance between spins if it did not exceed 17 to 18 Å. (The method of second moments can be used to estimate the distance between iminoxyl fragments in the 8 to 16 Å interval). The spin-label method was used to estimate the distance between the functional groups in lysozyme (histidine and lysine groups), myoglobin (histidine groups), and myosin (sulfhydryl groups). The results in the case of lysozyme and myoglobin were completent with the X-ray diffraction models of these proteins.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

1/2 010

UNCLASSIFIED PROCESSING DATE-20NDV70

TITLE--POSSIBLE DETERMINATION OF THE SPIN NUMBER OF COMPLEXES IN SOLUTIONS BY A PARAMAGNETIC PROBE METHOD -U-

AUTHOR-(03)-LIKHTENSHTEYN, G.I., GREBENSHCHIKOV, YU.B., MEDZHIDOV, A.A.

CCUNTRY OF INFO-USSR

SOURCE-ZH. FIZ. KHIM. 1970, 44(3), 812-14

DATE PUBLISHED ----- 70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS--METAL COMPLEX COMPOUND, EPR SPECTRUM, PARAMAGNETISM

CENTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1701

STEP NO--UR/0076/T0/044/003/0812/0814

CIRC ACCESSION NO--APO125322

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

CIRC ACCESSION NU--APO125322

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE METHOD IS CONFORMED EXPTL. FOR A NO. OF 4TH PERIOD METAL CUMPLEXES, SHOWING LINEAR RELATION BETWEEN BROADENING CF THE EPR SPECTRUM OF THE SPIN PROBE AND THE PRODUCT OF PARAMAGNETIC OCNCN. AND NO. OF UNPAIRED ELECTRONS, GOVERNING ITS PARAMAGNETISM. FACILITY: INST. KHIH. FIZ., QHERNOGOLOVKA, USSR.

1/2 016

UNCLASSIFIED

PROCESSING DATE--27NOV70

TITLE--THERMODYNAMICS AND KINETICS OF THE REDUCTIVE FIXATION OF MOLECULAR

NITROGEN -U-

AUTHOR-(02)-LIKHTENSHTEYN, G.I., SHILOV, A.YE.

COUNTRY OF INFO--USSR

SOURCE-ZH. FIZ. KHIM. 1970, 44(4), 849-56

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--CATALYSIS, CHEMICAL REDUCTION, NITROGEN REACTION RATE, CHEMICAL BONDING

CONTROL MARKING -- NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1420

STEP NO--UR/0076/70/044/004/0849/0856

CIRC ACCESSION NO--APO135094

-----UNCLASSIFIED

2/2 016 UNCLASSIFIED PROCESSING DATE--27NOV70 CIRC ACCESSION NO--APO135094 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. A GENERAL DIAGRAM OF THE PROBABLE ROUTES OF THE CATALYTIC REDN. OF N SUB2, UNDER MILD CONDITIONS, IS PRESENTED. THE PROCESS REQUIRES THE PRESENCE OF CATALYSTS WITH AN ABS. POTENTIAL, EPSILON, OF 1.4 EV, WHICH FORM, WITH THE N SUB2 MOL., A COMPLEX WITH DOUBLE OR TRIPLE BONDS BETHEEN N ATOMS. THE REDN. OF N SUB2 IS POSSIBLE WITH CATALYSTS HAVING EPSILON AS LOW AS 0.2-0.3 EV. WHEN THESE CATALYSTS FORM A LABILE COMPLEX WITH THE N SUB2 MOL. IN WHICH THE BOND BETWEEN THE TWO N ATOMS IS OF A CHARACTER INTERMEDIATE BETWEEN A DOUBLE AND A TRIPLE BOND. THE MECHANISM OF N HIXING ENZYMES FULFILLS THE DESCRIBED REQUIREMENTS. FACILITY: INST. KHIM. FIZ., CHERNOGOLOVKA, USSR. UNCLASSIFIED --

USSR UDC 547.952

LIKHTERSHTEYN, G. I., FROLOV, YE. N., HESNAYKO, N. F., LEVCHENKO, L. A., and SKLYAR, YU. S., Institute of Chemical Physics, Academy of Sciences USSR Moscow

"An Investigation of the Structure of a Modeled Iron-Sulfur Protein by the Mathod of Spin and Luminescence Labels"

Moscow, Molekulyarnaya Biologiya, Vol 6, No 2, Mar/Apr 72, pp 201-209

Abstract: The research described in the present article concerned the problem of the mutual arrangement and interaction of iron ions in iron-sulfur proteins. Artificial iron-sulfur proteins, synthesized from human serum albumin, were analyzed by the method of spin and luminescence labels, with the aid of an electron microscope, paramagnetic sound, nuclear gamma-resonance, and analytic ultracentrifugation in the density gradient. The spin label method is based on the specific reaction of the iron- and sulfur-containing centers of the given proteins with a paramagnetic iminoxyl derivative of n-chlormercurobenzoate. The luminescence labels method is based on the phenomenon of the migration of energy via an inductive-resonance mechanism between luminescence donor centers and luminescence-extinguishing acceptor centers. The results obtained by both methods indicate that the iron ions do not act as individual active centers, but instead form a 1/2

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LIKHTENSHTEYN, G. I., et al., Molekulyarnaya Biologiya, Yol 6, No 2, Mar/Apr 72, pp 201-209

polynuclear complex which participates in catalysis as a single unit. This appears to be an extemely general characteristic of nonhemin enzymes and carriers.

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- 46 -

USSR

UDC: 51

LIKHTENSHTEYN, V. Ye.

"Discrete Programming Models"

Modeli diskretnogo programmirovaniya (cf. English above.), Moscow, "Nauka", 1971, 240 pp, ill. 62 k. (from RZh-Kibernetika, No 1, Jan 72, Abstract No 1V836 K)

Translation: Chapter 1. Conditionally Extremum Problems and Discrete Programming; Chapter 2. Model of Selection of Plan Modifications; Chapter 3. Model of Grouping; Chapter 4. Other Models of Discrete Programming.

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Oncology

USSR

UDC 615.849.19.03:616-006-092.9

KAVETSKIY, R. Ye., SIDORIK, Ye. P. LIKRTENSETEYN, V. Ye., and BYALIK, V. V. Kiev Institute of Experimental and Clinical Oncology

"Intensification of the Antitumor Effect of Laser Radiation"

Moscow, Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, No 3, May/Jun 70, pp 12-17

Abstract: Laser radiation has a necrotizing effect on tumor tissue. In order to study the possible intensification of the antitumor effect of lasers by simultaneous administration of dyes or chemicals, tests were run on Gueria rat carcinoma. The research showed that the greatest retardation in tumor growth could be achieved by combined action of a neodymium laser and intraperitonesil or intravenous administration of Trypan blue. For instance, tumor growth was depressed 915, instead of 65% when the two agents were used separately. The most active combination for injection into tumors was laser radiation and Janus green. Histological study of tumors after introduction of various dyes showed that changes were similar, and differed from those observed in controls only by a more pronounced tissue edema. Combined application of laser radiation and TTOTEF or fluorouracil was effective in a case of Harding-Passy melanoma. The data obtained confirmed that with either combined application or only the laser the focus of necrosis in the ganglia of the erythromyelosis is comparatively slight, whereas along the

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KAVETSKIY, R. Ye., et al., Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, No 3, May/Jun 70, pp 12-17

periphery the tumor tissue retained its usual structure. After combined application, only an insignificant proliferation of connective tissue was noticed. The character of the changes due to combined application of laser radiation with dyes or chemicals was the same as if only the laser had been used; however, the spatial restriction of the disease was greater when the laser was combined with either dyes or chemicals. The specific advantages of using a laser in the impulse mode are shortness of the irradiation period, and the monochromatic character and coherence of the radiation itself.

1/2 032 UNCLASSIFIED PROCESSING DATE-+300CT70 TITLE-INTENSIFICATION OF ANTIBLASTIC ACTION OF EMISSIONS OF THE OPTIC

AUTHOR-(04)-KAVETSKY, R.YE., SIDORIK, YE.P., LIKHTENSHTEYN, YE., BYALIK,

CGUNTRY OF INFO-USSR

SOURCE-PATOLOGICHESKAYA FIZIOLOGIYA I EKSPERIMENTAL NAYA TERAPIYA. 1970. DATE PUBLISHED 70

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-TUMOR, CHEMOTHERAPY, BIOLOGIC STAIN, IRON COMPOUND, LASER

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME-3001/1922

STEP NO--UR/0396/70/014/003/0012/0017

CIRC ACCESSION NO--APO127323

UNCLASSIFIED

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2/2 032 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--APO127323 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. THE AUTHORS STUDIED THE POSSIBILITIES OF ENHANCEMENT OF THE ANTIBLASTIC EFFECT OF LASER RADIATION BY COMBINING THE ACTION OF THE LATTER WITH ADMINISTRATION OF DYES. CHEMOPREPARATIONS AND IRON IONOPHORESIS UPON THE TUMOUR. INHIBITION OF THE GROWTH OF GUERREN TUMOUR OF RAYS WAS THE GREATEST WHEN THE ACTION OF NEODYMIUM LASER AND ADMINISTRATION OF TRYPANE BLUE AND JANUS GREEN WAS COMBINED. A COMBINATION OF LASER RADIATION WITH THIOTEPA OF FLUOROURACIL PROVED TO BE EFFECTIVE IN CASE OF GARDING PASSI THE RESULTS OBTAINED POINTED TO A DEFINITELY SPECIFIC ACTION MELANGMA. OF OPTIC QUANTUM GENERATORS WORKING IN PULSE REGIMEN. THIS BEING CONDITIONED BY THE BRIEFNESS OF RADIATION, IT MONOCHROMATIC CHRACTER AND COHERENCE. FACILITY: KIYEVSKIY INSTITUT EKSPERIMENTALINOY I KLINICHESKOY ONKOLOGII.

UNCLASSIFIED

TARAKHOVS'KIY, M. L., SAMBROSKA, E. P., MEDVEDEV, B. M., ZADOROZHNA, T. D., OKHRONGHUK, E. V., and LINHTENSHTEYN, Ye. M., Experimental Department, Kiev Institute of Pediatrics, Obstetrics and Gynecology, and Physiology Laboratory, All Union Institute of Hygiene and Toxicology of Pesticides and

"The Effect of Permanent and Alternating Magnetic Fields on Some Physiological Functions and Metabolic Processes in White Rats"

Kiev, Fiziologicheskiy Zhurnal, No 4, 1971, pp 452-459

Abstract: Exposure of rats for one month to permanent and alternating magnetic fields (13) to 140 cersteds) significantly altered ovarian function, blood proteins, hemoglobin, erythrocytes, and hematocrit index. Morphological changes in the ovaries, liver, and adrenal glands were more pronounced after the action of the alternating magnetic field. Other quantitative and qualitative changes suggest that the mechanism of action of the two types of magmetic fields differs.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810012-4"

DDC 621.371.029.4

LIKHTER, Ya. I., MOLCHANOV, O. A., CHMYREV, V. M., RAPOPORT, V. O., TRAKHTENGERTS, V. Yu., and CHERNOVITSKIY, V. A.

"Propagation of Signals of a Very Low Frequency Transmitter in the Outer Ionosphero"

Moscow, V sb. X Vses. konf. po rasprostr. radiovoln. Tezisy dokl. Sekts. 3 (Tenth All-Union Conference on the Propagation of Radio Waves; Report Theses; Section 3-collection of works) "Nauka," 1972 pp 134-136 (from RZh-Radiotekhnika, No 10, 1972, Abstract No

Translation: Results are given of experiments investigating the propagation of very low frequency signals in the outer ionosphere. The signals of a transmitter radiating pulses of 400 and 800 msec at a frequency of 15 kHz with a repetition period of three seconds were used. Reception was made at a point magnetically adjacent to the transmitter, using two ship stations, one of which could have left the point for a distance of 3000 km. N. S.

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UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--CONCERNING THE PROBLEM OF ASSOCIATED CRANIOCEREBRAL INJURIES IN
CURRENT TRAUMATOLOGY -UAUTHOR-(03)-FRAYERMAN, A.P., ZVONKOV, N.A., LIKHTERMAN, L.B.

COUNTRY OF INFO--USSR

SOURCE--VESTNIK KHIRURGII IMENI I. I. GREKOVA, 1970, VOL 104, NR 4, PP 122-126 DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND HEDICAL SCIENCES

TOPIC TAGS--CEREBRUM. INJURY, TRAUMATOLOGY, BLOOD TRANSFUSION.

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1988/0044

STEP NO+-UR/0589/70/104/004/0122/0126

CIRC ACCESSION NO--APO105143

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--16DCT70 CIRC ACCESSION NO--APO105143

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. BASED ON THE ANALYSIS OF 367 CLINICAL OBSERVATIONS OF ASSOCIATED CRANIOCEREBRAL INJURIES AND A SERIES OF EXPERIMENTS ON RABBITS, A DETERMINATION OF THE ASSOCIATED CRANIOCEREBRAL INJURY IS GIVEN, AS WELL AS ITS RATIONAL CLASSIFICATION. THE PECULIARITIES OF DIAGNOSIS, CLINICAL COURSE AND SURGICAL POLICY IN SHOCK, OCCURRED DUE TO THE ASSUCIATED CRANIOCEREBRAL TRAUMA IN 36.2PERCENT OF CASES, ARE DISCUSSED. IT IS BELIEVED THAT IN CASE OF SHUCK BLOOD AND BLOOD SUBSTITUTING SUBSTANCES TRANSFUSIONS ARE GREATLY WARRANTED IRRESPECTIVE OF GRAVITY OF CRANIOCEREBRAL TRAUMA AND IN AMOUNTS NECESSARY FOR STABILIZING HEMODYNAMICS.

UNCLASSIFIED

PROCESSING DATE--27NOV70 TITLE--PREPARATION OF AGGREGATE FROM A METALLURGICAL SLAG -U-UNCLASSIFIED AUTHOR-(04)-YAKUNIN, O.A., LAPINA, V., RUTUS, M.V., LIKHTERMAN, YA.N. COUNTRY OF INFO--USSR REFERENCE--OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970, DATE PUBLISHED--01APR 70 SUBJECT AREAS--MATERIALS TOPIC TAGS--METALLURGIC SLAG, METAL CRYSTALLIZATION, METAL INCLUSION, METAL COOLING, METAL INGUT, METALLURGIC PATENT CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0482/70/000/000/0000/0000 DOCUMENT CLASS--UNCLASSIFIED

PROXY REEL/FRAME--3003/1072

PART ACCESSION NO--AA0130107