and niobium atoms. carried out by using	Calculation of th	ia anardiag d				
increased in the pres Orig. art. has: 4 fig	an equilibrium or sence of WC, also	er coefficient ne. Measure confirmed th	ts % i, showe ement of the r re presence o	ed that the s microbardn	short-range less, which	
SUB CODE: 11, 20				004 / OI	TH REF: 001	
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경, 유명합의 사람들이 되었다. 회사를 받아 남자를 들어 함						
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L 31164=66 EWT(m)/T/EWP(t) IJP(c) HW/JD

ACC NR: AP6006815 SOURCE CODE: UR/0181/66/008/002/0366/0374

AUTHOR: Semenovskaya, S. V.; Umanskiy, Ya. S.

ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov)

TITLE: Separation of the effects which dynamic and static nonhomogeneities have on diffuse scattering of x-rays by single crystals of disordered solid solutions

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 366-374

TOPIC TAGS: single crystal, solid solution, x ray scattering, phonon spectrum

ABSTRACT: A method is proposed for using diffuse scattering of x-rays to determine the complete spectrum of phonon frequencies in disordered solid solutions. An expression is derived for the mean square amplitude of the fluctuation wave in terms of the chemical activities of the components in the solid solution. This formula may be used with various wave vectors for finding the correlation functions for parameters of short-range order for any number of coordination spheres. The coefficients in the formulas are determined from data of an independent thermodynamic experiment. The method makes it possible to isolate the contributions due to sta-

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L 31164-66

ACC NR: AP6006815

tic and dynamic nonhomogeneities in the total diffuse scattering of x-rays. The method is illustrated by calculating the total spectrum of phonon frequencies in a disordered solid solution of stoichiometric Ni₃Fe quenched in water from 600°C for three directions: [100], [110] and [111]. Dispersion curves are given for longitudinal and transverse waves propagating in these three directions in this alloy. These curves are analyzed and compared with the frequency spectrum for pure nickel. Orig. art. has: 5 figures, 1 table, 16 formulas.

SUB CODE: 20/ SUBM DATE: 28Jun65/ ORIG REF: 007/ OTH REF: 008

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JD/HW/JG EMP(k)/EWI(m)/I/EMP(w)/EMP(t)/ETI IJP(c) SOURCE CODE: UR/0148/66/000/005/0140/01 10928-66 AP6030179 ACC NRI Dubrovina, A. N.; Umanskiy, Ya. S. ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov) BTITIE: Character of structural transformations in deformed alloy Ni + 10% (at.) Mo SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1966, 140-143 TOPIC TAGS: nickel alloy, annealing, molybdenum containing alloy, hardness, x ray diffraction analysis, metal recrystallization, phase analysis, solid solution, crystal lattice structure It was thought that preliminary deformation only affects the kinetic formation characteristics of the K-state. It appeared of interest to study the structural changes of a preliminarily deformed alloy during isothermal annealing. A nickel alloy containing 15.1% (wt) No [9.8% (at.)], melted in an induction furnace, with not more than 0.5% unavoidable impurities, was studied. Two batches of specimens, quenched (1200°C, 30 minutes, water) and deformed after quenching, were annealed at 500-700°C for 10 minutes to 100 hours after which hardness (according to Vickers), electrical resistance, and x-ray diffraction patterns of the structure were studied. Changes in electrical resistance and hardness of the quenched specimens in the course of annealing were small and close to experimental error. The electrical resistance of the quenched specimens was higher than that UDC: 669.24'28':620.183.48 0918 Card 1/3

L 40928-66

ACC NR: AP6030179

of the deformed; consequently, after quenching the atomic arrangement was non-chaotic (close-ordered).

Hardness of the deformed specimens in the annealing process increased from Bhn 275 to approximately Bhn 420. Processes leading to the hardness increase proceeded more rapidly at 600°C than at 500°C. At 700°C the hardness initially increased but later, in connection with the initiation of recrystallization, was reduced. The electrical resistance of the deformed specimens in the annealing process was increased by approximately 6%.

To study character of structural changes, shapes of the diffractions lines (111), (200), (311) and (222) of deformed and annealed specimens were photographed. In lines (200) and (311) satellites appear from the direction of small angles; this attests to the appearance of a new phase in the

This phase can have a lattice of the gamma-solid solution and be enriched with molybdenum (increase of the Mo content in the solution leads to the increase of its lattice period). In this case cleavage should be observed in all lines but the distance between lines of the basic solid solution and Mo-enriched parts should be increased with increase in the reflection angle proportional to tan v (v - the Wolf-Bragg angle). However, the cleavage of the (222) line, whose Wolf-Bragg angle is greater than the others, is absent, and the degree of cleavage of the (200) and (311) lines does not satisfy this requirement. Whereas in Mo-enriched parts there occurred ordering, and the Ni4Mo phase was formed, which has

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ACC NR: AP6030179 a tetragonal structure on a face-centered base, the more intense components of the tetragonal doublets of line (200) and (311) of this phase should be shifted in the direction of smaller angles relative to the lines of the gamma-solid solution; lines (111) and (222) of the new phase are insignificantly shifted relative to the lines of the main solution. This picture of transformations in the alloy was in excellent agreement with experiment. Effects noted in specimens deformed 40% was considerably weaker. During exposure in monochromatized copper radiation it was possible to observe weak satellites in lines (200) and (311) of the specimens annealed at least 5 hours at 600°C and not less than 10 hours at 500°C. Characteristics of intensity distribution are the same as in stronly deformed specimens. Deformation of the investigated alloy results in the appearance of microdistortions. Nickel and molybdenum atoms have different radii; hence, during annealing, a rising diffusion of Mo atoms in parts with an elongated lattice and the emergence of a concentrated inhomogeneity in the alloy are possible. Just such a structure provides for high hardness. Thus, the roentgenographic study indicated that the K-state in the deformed and annealed alloy of Ni \neq 10% (at.) Mo was associated with the formation, in the annealing process, of parts with the ordered structure of Ni4Mo having an increased content of Mo in comparison with the average content, since the K-state in the quenched and annealed specimens is explained by the existence of close ordering per the Ni, Mo type. Orig. art. has: 3 figures. [JPRS: 36,728] BUB CODE: 11, 20 / SUBM DATE: 13Dec65 / ORIG REF: 007 / OTH REF: 004 Card 3/3

L 07385-67 EWT(m)/EWP(t)/ETI IJP(c) JD/HW/JG ACC NR: AP6027748 SOURCE CODE: UR/0370/66/000/004/0123/01	27 44
AUTHOR: Dubrovina, A. N. (Moscow); Umanskiy, Ya. S. (Moscow)	B
ORG: None VI VI TITLE: Investigation of the kinetics of isothermal ordering in Ni ₄ Mo alloy	
SOURCE: AN SSSR. Izvestiya. Metally, no. 4, 1966, 123-127	
TOPIC TAGS: nickel base alloy, molybdenum containing alloy, intermetallic com	l l
ABSTRACT: X-ray analysis is used for studying the kinetics of ordering in a lalloy containing 20.76 at.% Mo. Ordering takes place in this alloy at temperable below 860°C with the formation of an NiµMo superlattice. The transition γ→Niµ sults in diffraction reflections in the body-centered lattice and tetragonal is splitting in the fcc lattice. Since the structure factor of these lines is in of the degree of ordering, line intensity may be used as a criterion for determined by the degree of long-range order. The alloy was melted from pure determined by the degree of long-range order. The alloy was melted from pure in an induction furnace. The ingot was forged at 1200°C and rolled to a thick and induction furnace. The specimens were held for 30 minutes at 1200° quenched in water. Tempering was done at 500-800°C for 10 min-100 hr. Radio quenched in cohalt K-radiation in an RKD camera for a qualitative evaluation	line ndependent rmining ng is materials kness of °C and graphs on of the
nature of the transformations. The superlattice reflections and tetragonal defendance of the transformations. The superlattice reflections and tetragonal determination of the transformation and tetragonal determination of the transformations. The superlattice reflections and tetragonal determination of the transformations. The superlattice reflections and tetragonal determination of the transformations. The superlattice reflections and tetragonal determination of the transformations. The superlattice reflections and tetragonal determination of the transformations. The superlattice reflections and tetragonal determination of the transformation of the transformation of the superlattice reflections and tetragonal determination of the transformation of the transfo	/instal- ithium
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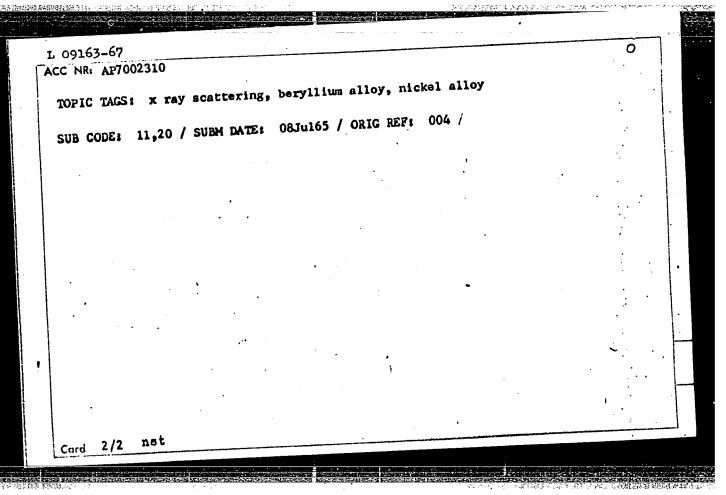
APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001857930008-0"

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CIA-RDP86-00513R001857930008-0

L C1385-67 ACC NR: AP6027748 fluoride crystal). The lattice periods were determined from photographs taken in a KROSS (A-64 mm) camera in Cug-radiation. A UMB-2 potentiometer was used for measuring electrical resistance. The Vickers hardness was measured for comparision. A comparison of the degree of splitting of the tetragonal doublets at 700-800°C shows that the lattice periods and hence the degree of long-range order changes during isothermal ordering. Structural changes in the alloy during ordering are revealed both in growth of domains and in increase in the degree of order within the domains. A rough estimate of the quantity of Ni4Mo phase shows an increase with annealing time from 37% at 5 hours to 80% at 100 hours of annealing at 800°C. Analysis of the results shows that the formation of long-range order in Ni₄Mo alloy begins with small regions with a degree of ordering far from equilibrium and depending on the diffusion mobility of the atoms. The dimensions of the stable nucleation centers are dependent on temperature so that the number of ordering centers decreases with an increase in temperature. Sections with an ordered structure are surrounded by a disordered matrix. There can be no increase in electrical conductivity at this stage of transformation due to scattering of electrons by antiphase boundaries. The increase in size of the ordered domains and in the degree of long-range ordering within the domains reduces electrical resistance. Due to the effect of these various factors, resistance decreases more slowly at 700°C than at 800°C. Orig. art. has: 3 figures, 1 table. SUB CODE: SUBM DATE: 10May65/ ORIG REF: 004/ OTH REF: 006 Card 2/2

I 09163-67 EWT(m)/EWP(t)/ETI IJP(c) JD/HW/JG LACC NR. AP7002310 SOUNCE CODE: UN/0126/66/021/005/0779/0781	
ACC NR. AP7002310 SOURCE CODE: UR/0126/66/021/005/07/9/5/81	
VARLI, K. V. SKAKOV, Yu. A., UMANSKIY, Ya. S., Moscow Institute of Steel and Alloys (Moskovskiy institut state 1 splayov)	
ALLOYS (MOSKOVSKI) INSUITAGE STATES	
"Anomalous Variation in the x-ray Interference Pattern During Aging of Nickel-	
Ecryllium Alloys"	
1.	
Sverdlovsk, Fizika Metallov i Metallovedeniye, Vol 21, No 5, May 66, pp 779-781	
TOPIC TACS: x ray scattering, beryllium alloy, nickel alloy	
ABSTRACT: The authors studied anomalous two-dimensional effects in x-ray	
scattering during aging of nicket-beryllium alloy specimens with two compositions; 1) with 1.32 ut 7. Be, and 2) with 2.2 ut % Be. The alloys were annealed for	
maximum hardness. Interference curves are given for the solid solution after	
various aging periods. Considerable changes are observed in the interference	
parrorm after aging for only 1 or 2 minutes. These changes consist of an	
anomalous shift in lines (111) and (200) toward one another, the appearance of	
assumetry in line (111) toward smaller angles, and a reduction in the intergal	
intensity of line (200). These changes are all stronger in the alloy with higher.	
hervilium concentration (alloy 2). Lines (111) and (200) begin to move away from	
one another with longer aging and the intergal intensity of line (200) increases	
while the asymmetry of line (111) disappears. The line shift may be due to	
packing defects with or without other structural changes which take place during	
decomposition of the solid solution. Among the other structural changes which may lead to anomalous line shift are oriented stresses and concentration nonhomogeneity, and the	
formation of metastable segregations in the form of thin layers with a hexagonal structure. Orig. art. has: 1 figure. [JPRS: 37.4]5	
Cord 1/2	
0925 0583	



UMANSKIY Ye.S.

24-2-27/28 AUTHORS: Grigorenko, Ya. M. and Isakhanov, G.V.

Scientific Conference on the strength of elements of TITLE:

turbo-machinery at elevated temperatures. (Nauchnoye soveshchaniye po voprosam prochnosti elementov

turbomashin pri vysokikh temperaturakh).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, No.2, pp. 165-167 (USSR).

ABSTRACT: A scientific conference was held in Kiev between September 28 and October 2, 1957 on problems of strength of elements of turbo-machinery at elevated temperatures which was convened by the Institute of Metallo-Ceramics and Special Alloys (Institut Metallokeramiki i Spetssplavov), the Institute of Structural Mechanics (Institut Stroitel'noy Mekhaniki) and the Institute of Thermal Power (Institut Teploenergetiki Akademii Nauk Ukrainskoy SSR) of the Ac.Sc., Ukrainian SSSR. About 200 people participated representing scientific and teaching establishments and works of Moscow, Leningrad, Kiev, Kharkov, Minsk, Kuybyshev, etc. In his opening address, Corresponding Member of the Ac.Sc. Ukraine I. N. Frantsevich pointed out the importance of the problem of high card 1/9 temperature strength of components of turbo-machinery.

27-2-27/28

Scientific Conference on the strength of elements of the strength of elements of the strength of the strength

A number of papers were read relating to the accord of heat conductivity and thermo-elasticity. In his saper "Investigation of the temperature fields in turbine rotors" Ye. P. Dyben reported on the theoretical and elberimental investigations of the steady state and the non-ateady state thermo-conductivity in turbine rotors of various designs including investigations on concrete appelments of rotors produced by the Kirov and Neva Works, the "Ekonomayzer" Works and others, cerried out at the Institute of Thermal Power, Ukrainian Ac.Sc. In studying the temperature fields they used the method of laboratory investigation of non-steady state thermal conductivity by means of high frequency heating, the method of electro-thermal analogy by means of "FFAA" equipment etc. They obtained a solution of the problem of non-steady state thermal conductivity of a hollow cylinder of finite length with a relatively general law of the changes of the temperature and the heat transfer coefficients. The Institute, jointly with the Experimental Gas Turbine Construction Works, developed a method of cooling the discs by blowing cooling air through the

Scientific Conference on the strength of elements of turbo-machinery at elevated temperatures.

assembly gaps of the tails of the rotating bloder. In his paper "Investigation of the Thereal Streams in Turbine Rotors" A. D. Kovalenko described results of investigations in the field of thermo-elasticity carried out by the Institute of Structural Mechanics, Uhrainian Ac.Sc., the Kiev State University, the Kiev Polyttchnical Institute and the Institute of Thermal Power, Ukrainian Ac.Sc. In these studies the following were investigated: problem of the plane stress state of a disc of variable thickness in the case of a cyclically symmetrical temperature field, problem of complex bending of a disc in the case of ar axis-symmetrical temperative field and a variable modulus of elasticity, an anic-symmetrical problem of thermo-elasticity for a blick walled cylinder for various laws of changes of the temperature and of the modulus of electicity along the radius on clong the generatrix, etc. In the investigations strain gauges were used and also electric modelling and corputing mechanisms. Furthermore, a method was developed of calculating a rotor of a two-stage aviation gas turbine considering it as a non-uniformly heaved and rotating

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Scientific conference on the strength of elements of turbo-machinery at elevated temperatures.

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system in which the following elements operate jointly: discs, shells and ring-shaped rods. In his paper "Certain Methods of Solving the Axis-Symmetrical Problem of the Theory of Elasticity Taking Into Consideration Mass Forces and the Temperature" E. S. Umanskiy elucidated an approximate method of calculation of the stress state.
The paper of V. I. Danilovskiy (Mechanics Institute, Ac.Sc. USSR) was devoted to calculating the temperature fields in thin shells. The paper of A. I. Veynik (Power Institute, Ac.Sc. Byelo-Russia) was devoted to an approximate method of solving the problem of thermo-conductivity in solid bodies. The paper "Temperature Stresses in Thin Walled Structures" by I. A. Birger and B. F. Shor dealt with the investigations carried out by TsIAM on the thermal stresses in rods, taking into consideration variable elasticity parameters and also with the stress state of thin walled naturally twisted rods which are subjected to the effect of external forces and non-uniform heating. In the paper "Temperature Stresses in Elements of Gas Turbines Under Conditions of Non-steady State Thermal

Scientific conference on the strength of elements of turbomachinery at elevated temperatures.

Regimes" A. G. Kostyuk (MEI) considered the method of approximate solution of the problem of the non-steady state temperature field in which the component is considered as a semi-infinite body during the initial instant of heating. In his paper "Temperature Stresses in the Runner Blades and Discs" N. N. Malinin (MVTU) described engineering methods of calculating the thermal stresses in discs with variable elasticity parameters. The papers of Ya. S. Podstrigach (Institute of Mechanical Engineering and Automation, Ukrainian Ac.Sc., L'vov) and of L. G. Fridman (Kuybyshev) dealt with investigations of the temperature stresses in thin walled structures particularly in bodies of aviation engines. P. S. Kuratov (TsKTI) and Ye. M. Molchanov (VTI) reported on complex investigations of the temperature fields the stress state and the thermal fatigue of the rotors of definite turbines. In his paper "Experimental Investigation of the Temperature Stresses in Fully Forged Rotors" G. A. Rayer reported on experimental investigations carried out at the Neva

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Scientific Conference on the strength of elements of turbomachinery at elevated temperatures.

Engineering Works imeni Lenin (Leningrad). The representative of the Leningrad Metal Works, Engineer I. N. Shibalov conveyed information on the tests of equipment for heating individual elements of the BT-25-4 turbine during starting.

The second part of the conference was devoted to problems of the constructional strength of elements on turbo-machinery at elevated temperatures. In his paper "Work of the Institute of Metalloceramics and Special Alloys, Ukrainian Ac.Sc. in the Field of High Temperature Strength" G. S. Pisarenko described certain results obtained by the team of the Strength Division of the Institute as regards the development of new methods and test equipment for studying the mechanical characteristics of high temperature materials at temperatures up to 1500°C, for high temperature static and dynamic tests of metalloceramic materials and of components and also certain results of investigations relating to dissipation of energy in heat resistant materials at normal and at elevated temperatures.

Card 6/9 The paper of G. S. Brokhin, A. B. Platov and A.I. Baranov

Scientific Conference on the strength of elements of turbomachinery at elevated temperatures.

"Technique of High Temperature Tests Applied by VNIITS" and that of Ye. N. German (VIAM) "On Certain New Methods of Testing High Temperature Metalloceramic Materials" and the paper of V. Z. Tseytlin, M. A. Filatova, A.V.Ryabchenkov and A. I. Maksimov (TsNIITMASh) "Long Duration and Fatigue Strength in Air and in Gaseous Media of a Nickel-Chromium Alloy Used for Transportation (Gas) Turbines" were all devoted to the study of high temperature materials. The results of natural investigations of elements of turbo-machinery were dealt with in papers presented by the personnel of TsKTI imeni Polzunov. N. N. Kalinovskiy (NII) dealt with the results of investigation of the carrying capacity and the long duration strength of specimens of gas turbine discs of a new design and a complicated configuration under conditions similar to the operating conditions. author described the features of the heating system and of the damping equipment which ensures the possibility of long duration tests of natural discs by means of racing at a high temperature until disruption occurs and he also Card 7/9 considered the deformations of a disc in the case of long

Scientific Conference on the strength of elements of turbomachinery at elevated temperatures.

the materials.

V. V. Kuleshov (VVIA imeni N. Ye. Zhukovskiy) described the application of the method of finite differences to calculating the strength and profiling of non-uniformly heated discs which operate in the elastic range, under conditions of creep and under conditions of plastic deformation.

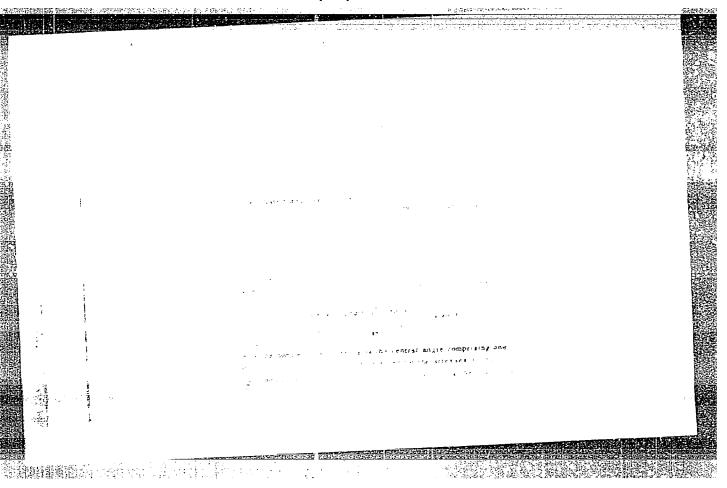
G. Ye. Krumel' and A. G. Prokopenko (LPI and YuZhORGRUS) reported on the method of starting large thermal power reported on the method of starting large thermal power of Optimum Tooth Dimensions".

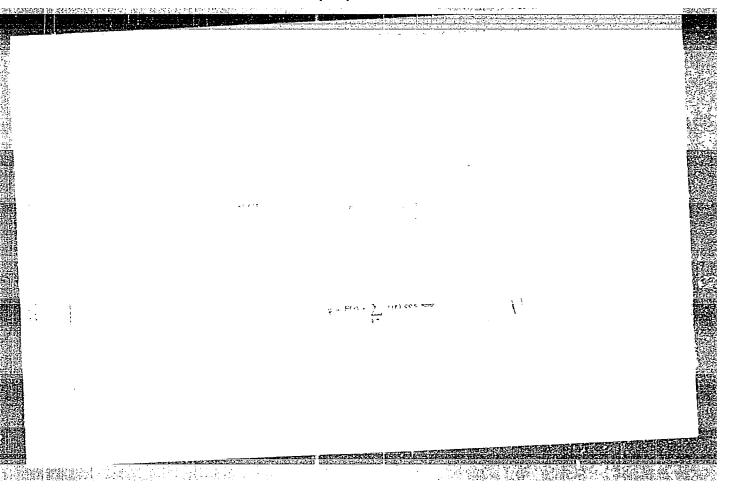
For improving further the methods of calculation of the strength of individual elements of turbo-machinery at elevated temperatures, the members of the conference elevated temperatures, the members of the conference sations should be extended on heat exchange in the components of turbines as well as on the stress state of these elements under conditions of non-steady state

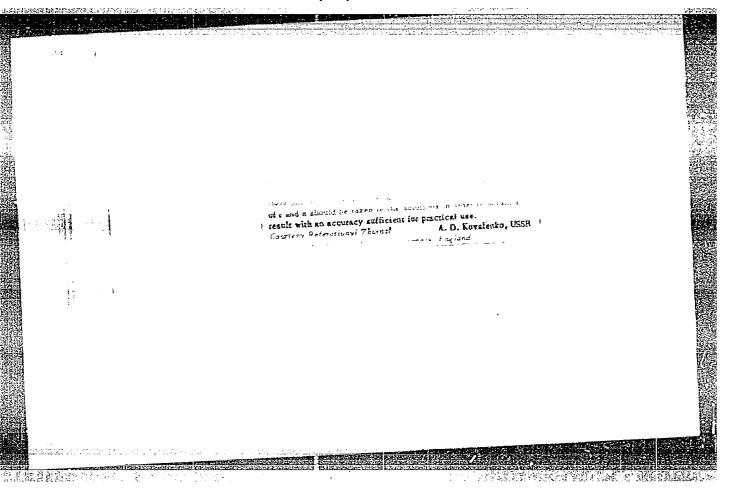
Card 9/9

heat exchange. (Note: This is a complete translation).

AVAILABLE: Library of Congress.







S/021/60/000/006/005/019 A153/A029

24.4100

AUTHORS: Umans'kty, Ye.S.; Agar'yov, V.A.

TITLE:

On the Method of Initial Functions in the Two-Dimensional Problem

of the Theory of Elasticity W

PERIODICAL: Dopovidi Akademiyi nauk Ukrayins koyi RSR, 1960, Nr. 6, pp. 755 -

760

TEXT: A general solution for the two-dimensional thermoelastic problem for a rectangular region is given by the method of initial functions. The paper is strictly mathematical, using standard mathematical symbols and considering the solution of the above-specified problem taking into account various assumptions. All the necessary operators and the transcendental characteristic equation and their roots for principal cases of boundary conditions are given. It is stated their roots for principal cases of algebraic linear equations can be obtained with the help of existing computers. There are 7 references: 6 Soviet and 1 English.

ASSOCIATION: Kyyivs kyy ordena Lenina politekhnichnyy instytut (Kiyev Order of Lenin Polytechnical Institute)

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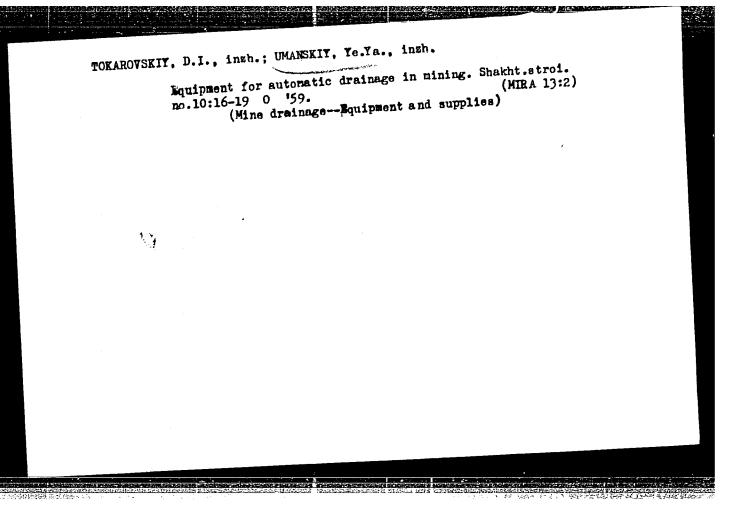
GENDRIKHOVSKIY, Zdislav Cheslavovich; UMANSKIY, Ye.Ya., otv.red.; MIRSKAYA, V.V., red.iad-va; BERESLAVSKAYA, L.Sh., tekhn.red.; SHKLYAR, S.Ya., tekhn.red.

[Electrical engineering in mining] Gornaia elektrotekhnika.

[Mirall2:2)

Moskva, Ugletekhizdat, 1958. 323 p. (Mirall2:2)

(Electricity in mining)



UMANSKIY, Ye. Ye.; KUDOKOTSKY, Y.P.

On the possibility of restoring the regenerative properties of an amphibian extremity following x-ray irradiation. Doklady Akad.nauk SSSR 76 no.4:605-608 1 Feb 51. (CIML 20:5)

1. Presented by Academician Ye. W. Pavlovskiy

UMARSKIY, Ye.Ye.; KUDOKOTSEV, V.P.

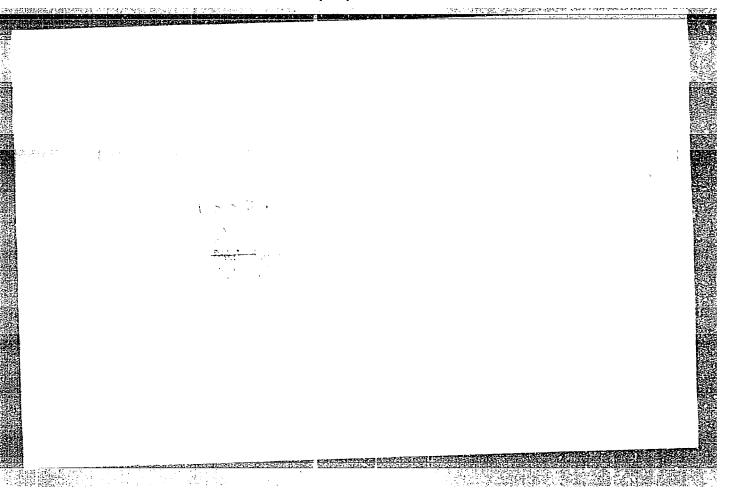
Stimulation of regenerative processes in the extremities of mammals with parathyroid hormone. Doklady Akad. nauk SSSR 86 no. 2: 437-440 11 Sept 1952.

1. Presented by Academician K. I. Skryabin 23 May 1952.

UMANSKIY, Ye.Ye.; SAMOHOVA, V.A.

Inhibition of the development of scar tissue with hyaluronidase. Doklady Akad. nauk SSSR 88 no. 2:361-363 11 Jan 1953. (CLML 24:1)

1. Presented by Academician A. I. Abrikosov 27 October 1952. 2. Khari-kov State University imeni A. M. Gorikiy.



UMANS KIY, IU.A

In vivo determination of radiophosphorus in tumors implanted into the skin and in normal skin of rabbits. Medych.zhur.24 no.3:41-47 '54. (MLBA 8:10)

1. Institut klinichnoi fiziologii im. akad.0.0. Bogomolitsya Akademii nauk URSR, viddil patologichnoi fiziologii.

(PHOSPHORUS, radioactive, determ. in skin tumor tissue & in normal skin in rabbits)

(MEOPLASMS, experimental, determ. of radiophosphorus in skin tumor tissue & in normal skin %n rabbits)

(SKIN, neoplasms, radiophosphorus in skin tumor tissue & in normal skin in rabbits)

(SKIN, metabolism, radiophosphorus, in normal & neoplastic skin in rabbits)

UMANS'KIY, Yu.O.

Determination of radiophosphorus in tumors, organs, and tissues of mice. Medych.zhur.24 no.5:48-57 '54. (MLRA 8:10)

1. Institut fiziologii im. O.O. Bogomol'tsya Akademii nauk URSR. (PHOSPRORUS, radioactive, metab.,in tumor tissue & in normal organs & tissue in mice, determ.)

(ENDPLASMS, metabolism in, radiophosphorus in tumor tissue, determ.)

KAVETS'KIY, R.E.; UMANSKIY, Yu.O.

Application of artificially radioactive isotopes in medicine.
Medych.zhur.24 no.5:65-80 "54. (MLRA 8:10)

1. Institut fiziologii im. O.O. Bogomol'tsya Akademii nauk
URSR.

(ISOTOPES,
med.use)

UMANSKIY, YU.A., VESELAYA, I.V.

"Investigating the Accumulation of Radiosctive Isotopes in Tumors when Introduced into the Organism in the FOrm of Antitumorous Sers" p. 100, in the book Experience intthe Use of Radiosctive Isotopes in Medicine R. Ye. MAVETSKIY and I.T. SHEVCHENKO, published by the Gosmediadat Publishing House of the UKRAINIAN SSR, KIEV 1955, represents medical transactions of a conference held in KIEV from 18-20 January 1954.

So: 1100235

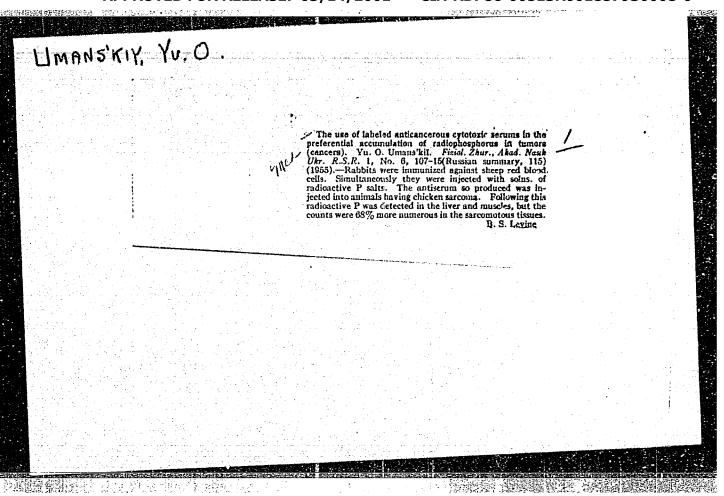
UMANSKIY, YU.A., DANDLENKO, A.I., KAVETSKIY, R.YE.,

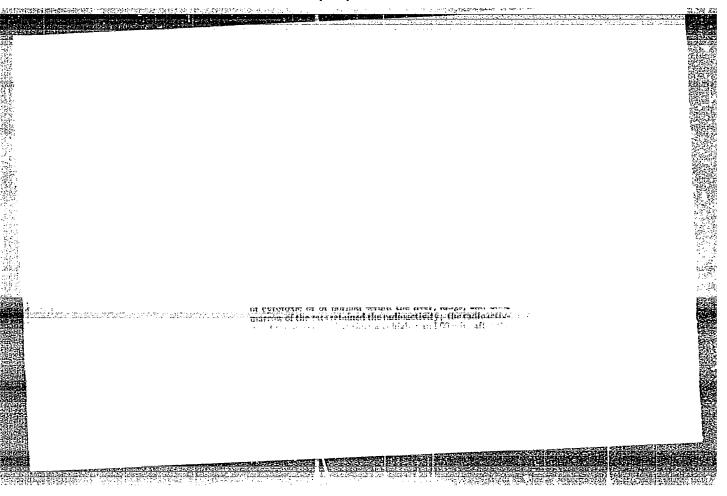
"Investigating the Accumulation of Radio-iron in Tumors when being Introduced into the Affected Organism in the Form of the Complex Compound of Iron Ascorbinate" p. 105, in the book Experience in the Use of Radiosctive Isotopes in Medicine R. Ye. KAVETSKIY and T.T. SHEVCHNNKO, published by the Gosmedisdat Publishing House of the UKRAINIAN SSR, KIEV 1955, represents medical transactions of a conference held in KIEV from 18-20 January 1954.

So: 1100235

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UMANSKIY, Tu.A. Effect of radioactive iron (Fe⁵⁹) on the growth of inoculated tumors. Wrach.delo no.11:1217 N *56. 1. Laboratoriya radioaktivnykh izotopov (zaveduyushchiy - akademik AN USSR, professor R.Ye.Kavetskiy) Kiyevskogo nsuchno-issledovatel*akogo rentgeno-radiologicheskogo i onkologicheskogo instituta. (IRON--ISOTOPES) (CANCER)

DANILENKO, A.I. [DANYLENKO, A.I.], UMANSKIY, Yu.A. [UMANS'KYI, IU.0]

Studies on the accumulation of radioactive iodine in tumors following introduction into the affected organism as a part of antitumor serum globulins. [with summary in English]. Fiziol.zhur. [Ulr.] 4 no.3 (MIRA 11:7) 369-375 My-Je 158

l. Institut klinichnoi fiziologii im. O.O. Bogomol'tsya AN URSR. viddil patofiziologii.
(IODINE IN THE BODY]
(TUMORS)

ZWACHKOVSKIY, N.G., UMANSKIY, Yu.A.

Information on the plenary session of the Society of Oncologists of the Ukrainian S.S.S.R. and the conference of the Kiev Institute of Roentgenology, Radiology, and Oncology, devoted to the 40th anniversary of the Ukrainian S.S.S.R. Vop.onk.4 no.3:374-375 158 (MIRA 11:8)

(UKRAINE--ONCOLOGY)

Umanskiy, YU, A., Barshteyn, YU, A. and Korol', S. A.

About the effect of ACS* upon the norphological changes in the spleen of animals, subjected to irradiation with radioccbait gammays and radio phosphorous betarays.

Materialy nauchnykh konferentsii, Kiev, 1959. 288pp (Kievskiy Nauchno-issledovatel'skiy Institut Epidemiologii i Mikrobiologii)

Translator's note: *Antireticular cytotoxic serum

Umanskiy, YU. A., and Korol', S. A.

Course of tetanus toxication under the effect of different types of ionizing radiations on grounds of changes in the reactiveness.

Materialy nauchnykh konferentsii, Kiev, 1959. 255pp (Kievskiy Nauchno-issledovatel skiy Institut Epidemiologii i Mikrobiologii)

Umanskiy, YU. A., Barsheteyn, YU. A., and Korol', S. A.

On the pathomorphology of the spleen of white mice during simultaneous action of tetanus toxin at different types of radiation (gamma-rays of radio cobait and beta-rays of phosphorus) under conditions of changed reactiveness.

Materialy nauchnykh konferentsii, Kiev, 1959. 288pp (Kievskiy Nauchno-issledovatel'skiy Institut Epidemiologii i Mikrobiologii)

PEYSAKHOVICH, Iosif Mironovich, prof.; KOL'NER, Rakhil' Yul'yevna; KORENEV-SKIY, Leonid Ivanovich; LEVCHUK, Georgiy Antonovich; MAZURENKO, Nikolay Petrovich; POLONSKIY, Boris Leonidovich; SAVITSKIY, Vasiliy Nikolayevich; TELENGATOR, Yakov Moisyevich; UMANSKIY, Yulian Aleksandrovich; GLUZMAN, F.A., red.; RAYZ, A.L., tekhm. red.

[Drug therapy for malignant tumors] Khimioterapiia zlokachestvennykh opukholei. Kiev, Gos. med. izd-vo USSR, 1961. 304 p. (MIRA 14:11)

(CANCER)

UMANSKIY, Yu.A.; KRALICH, I.M.; SIDORIK, O.A.

Relation of the distribution of labelled antibodies in rat organs to the method of their introduction into the body. Pat. fiziol, i eksp. terap. no.2:65-69 '64. (MIRA 17:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy i klinicheskoy onkologii (dir. - akademik AN UkrSSR prof. R.Ye. Kavetskiy), Kiyev.

UMANSKIY, Yu.A.

Effect of radio-lodinated globulins in antitumor serum on the development of the ascitic form of the Ehrlich tumor. Vop. onk. 10 no.2:91-98 164.

1. Iz laboratorii radictivynkh izotopov Ukrainskogo nauchnoissledovatel'skogo instituta eksperimental'noy i klinicheskoy onkologii Ministerstva zdravockhraneniya UkrSSR (dir. - akademik AN Ukrogii Ministerstva zdravockhraneniya UkrSSR (dir. - akademik AN Ukr-SCR R. Ye. Kavetskiy). Adrez avtora: Kiyev -198, Vasil'kovskaya 65, Ukrainskiy nauchno-issledovatel'skiy institut eksperimentai'noy i klinicheskoy onkologii Ministerstva zdravookhraneniya UkrSSR.

BALITSKIY, K.P.; UMANSKIY, Yu.A.; PRIDATKO, O.Ys.

Effect of cortisons on the intracutaneous antitumor inqunity.

Probl. endok. 1 gorm. 10 no.4282-84 Jl.Ag '64. (MIPA 1826)

1. Laboratoriya patogeneza (rukovoditel - kand. med. nauk K.P. Balitskiy) i laboratoriya immunologii (rukovoditel - kand. med. nauk Yu.A. Umanskiy) Ukrainskogo nauchno-issledovatel skogo instituta eksperimental noy i klinicheakoy onkologii (dir. akademik AN UkrSSR R.Yo. Kavetskiy) Ministerstva zdravookhraneniya UkrSSR, Kiyev.

Machanism of glycolysis inhibition by antineoplastic serum. Ukr.
biokhim. zhur. 37 no.3:420-429 '65. (MIRA 18:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy i klinicheskoy onkologii, Kiyev.

UMANSKIY, Yu.A.; PINCHUK, V.G.; MONASTYRSKAYA, B.D.

Ultrastructural changes in cells on the Guerin's carcinoma treated with various antitumoral serums. Dokl. AN SSSR 161 no.1:221-223 Mr 165. (MIRA 18:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy i klinicheskoy onkologii. Submitted June 5, 1964.

Obtaining antineoplast sora in the immunization of enimals by means of tumor cells freed from connective tissue stroma. Biul. eksp. biol. i med. 60 no.8:99-102 Ag 165. (MIRA 18:9)
 Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy i klinicheskoy onkologii (dir akademik AN UkrSSR R.Ye. Kavetskiy), Kiyav.

UMANSKIY, Yu.A. [Umans'kyi, IU.O.]; BEZVERSHENKO, I.A.

建筑建筑建设产品的设置。

Effect of antimitochondrial serum on some energy metabolism indices of Guerin's carcinoma. Dop. AN URSR no.8:1088-1091 (MIRA 18:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy i klinicheskoy onkologii.

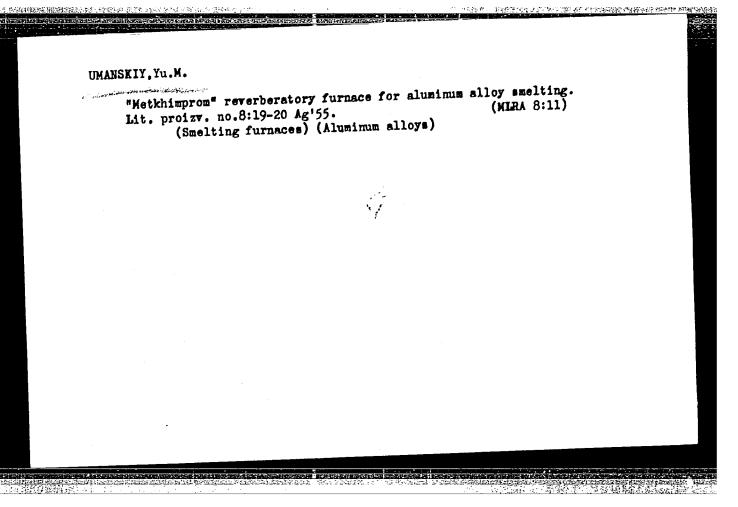
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EVI(1)/IUR/0219/65/060/008/0099/0102 T. 23368-66 SOURCE CODE: AP6014003 ACC NR Umanskiy, Yu. A.--Umansky, Yu. A. AUTHOR: ORG: Ukrainian Scientific Research Institute of Experimental and Clinical Oncology/ directed by Academician R. Ye. Kavetskiy, AN UkrSSR/, Kiev (Ukrainskoy nauchnoissledovatel'skiy institut eksperimental'noy i klinicheskoy onkologii) TITIE: Derivation of antitumor sera by immunizing animals with tumor cells freed from connective tissue stroma SOURCE: Byulleten' eksperimental noy biologii i meditsiny, v. 60, no. 8, 1965, 99-102 TOPIC TAGS/ tumor, serum, immunization, rabbit ABSTRACTA The derivation of nonspecific antitumor sera which can be used as antigener of tumor cells is the object of the experiments which are described in this article. From rats with transplanted Herne carcinoma the tumor was extracted and reduced to fine particles by cutting; the particles were then suspended in a 0.0001 percent solution of trypsin for a period of 30 minutes. The suspension was then filtered through two layers of gauze and the filtrate was centrifuged. The obtained precipitate was covered with physiological solution and placed into a magnetic mixer; the solution was again filtered through two layers of gauze and then washed with physiological solution. Tumor cells freed from connective tissue stroma were thus obtained and used to obtain antitumor sera. A suspension of these cells in physiological Card 1/2

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ment fixation and hexperimental rabbit sera obtained from studied (the latter trol sera were studied with antigens from results obtained in	enously injected into the rabbit and the sera which were obtained emagglutination reactions. Ten simmunized with the antitumor control animals immunized with will be known as control seration and tumor tissues, liver, and spleed the complement fixation and he had simmunized with tumor cells immunized with tumor cells.	sera obtained from the cells and 16 antitumor the whole tumor tissue in the article). The hemagglutination reaction. An analysis of the magglutination reaction reaction and the company of the magglutination reaction reaction and the company of th	were con- ions ons
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ACC NR: AP6028840

SOURCE CODE: UR/0143/66/000/002/0049/0056

AUTHOR: Dubinskiy, M. A. (Doctor of technical sciences); Martynovskiy, V. S. (Professor; Doctor of technical sciences); Umanskiy, Yu. H. (Engineer)

ORG: Odessa Technological Institute of the Food and Refrigeration Industry (Odesskiy teknologicheskiy institut pischevoy i kholodil'noy promyshlennosti)

TITLE: Analysis of the cycles of air-cycle refrigerators with additional heat transfer in a regenerator

SOURCE: IVUZ. Energetika, no. 2, 1966, 49-56

TOPIC TAGS: regenerative cooling, cryogenic refrigerator, refrigeration engineering, refrigeration equipment, heat transfer

It is shown that implementing the principle of additional heat transfer in the regenerator simplifies closed- and open-loop air-cycle refrigerators to the extent where they can be designed on the basis of turbomechanisms and be introduced into industry, particularly for temperatures of -70 to -80°C and lower. Those with additional heat transfer in a regenerator can be expediently exployed for the combined generation of heat and cold. The use of intermittent-action regenerators assures a high degree of regeneration and a reliable performance, using moisture-contain-

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PHASE I BOOK EXPLOITATION

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Umanskiy, Yakov Semenovich

- Rentgenografiya metallov (Roentgenography of Metals) Moscow, Metallurgizdat, 1960. 448 p. Errata slip inserted. 10,200 copies printed.
- Ed.: V. G. Lyuttsau; Ed. of Publishing House: L. M. Gordon; Tech. Ed.: M. K. Attopovich.
- PURPOSE: This textbook is intended for students. It may also be used by specialists working in x-ray laboratories of the metallurgical and machine manufacturing industries.
- COVERAGE: The textbook presents the principles of x-ray physics, x-ray engineering, as well as the fundamentals of x-ray structural analysis of polycrystalline metals and alloys. It describes the techniques of defect detection in products through the use of x-ray and gamma radiations. Methods for determining the size of crystals and mosaic blocks are explained along with

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Roentgenography of Metals

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the methods of texture analysis, and quantitative and qualitative phase analysis. The technique of x-ray analysis of solid solutions and of processes taking place during thermal treatment is described as are the methods for determining stress and defects in the crystal lattice of metals. The textbook also includes data on accident prevention, labor protection in x-ray laboratories, and electron and neutron radiographic studies of the metal and alloy structure. Tabular data for the analysis of roentgenograms are given in the appendixes. No personalities are mentioned. There are 144 references: 101 Soviet, 28 English, 13 German, and 2 French.

TABLE OF CONTENTS:

diffraction

Introduction

Ch. I. Physics of X-Rays

1. Nature of x-rays, their refraction, reflection, and

Card 2/7-

89663

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S/149/61/000/002/012/017 A006/A001

AUTHORS:

Astrakhantsev, S.M., Mozzhukhin, Ye.I., Umanskiy, Ya.S.

TITLE:

Investigation of Sintered Alloys on Metallic NiAl Compound Base

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya,

1961, No. 2, pp. 110 - 115

TEXT: The authors developed a technology for obtaining Ni-Al alloys by powder metallurgy methods, and investigated the properties of the alloys obtained. Alloys of the single-phase NiAl and the bi-phase NiAl-Ni-Al range were studied. The technology employed was different from previous methods (Ref. 5, 6) where the alloys had been prepared from powders whose composition corresponded to that of the alloys. In the present investigation the alloys were produced from Ni-Al addition alloys and nickel powder, whereby the Al content in the addition alloy exceeded that in the alloy. The addition alloys were melted in high-frequency induction furnaces in a magnesite crucible. The experiments were made with four singlephase alloys containing Al (in atomic %): 1) - 52.5; 2) - 50; 3) - 45; 4) - 40. Alloy 1 was a solid solution of Al subtraction in NiAl; alloy 2 corresponded to the NiAl compound of stoichiometric composition; alloys 3 and 4 were solid solutions

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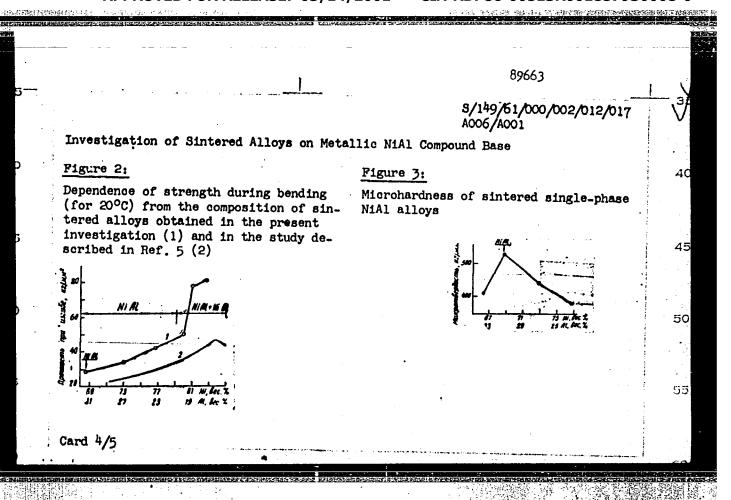
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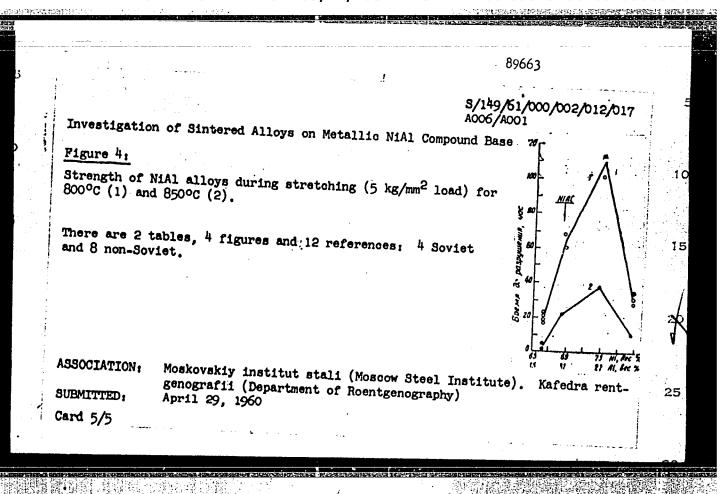
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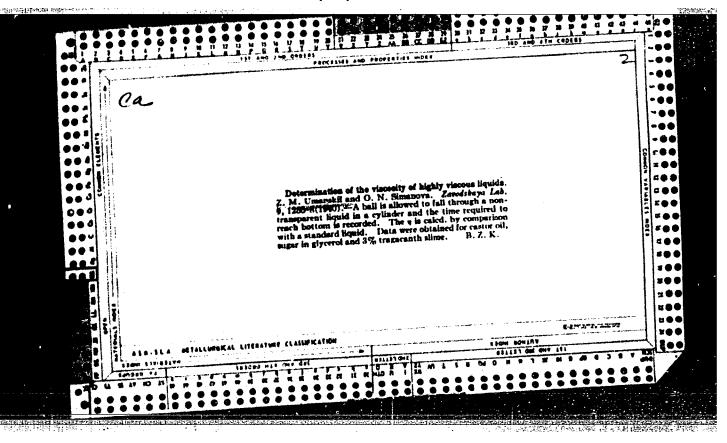
Investigation of Sintered Alloys on Metallic NiAl Compound Base

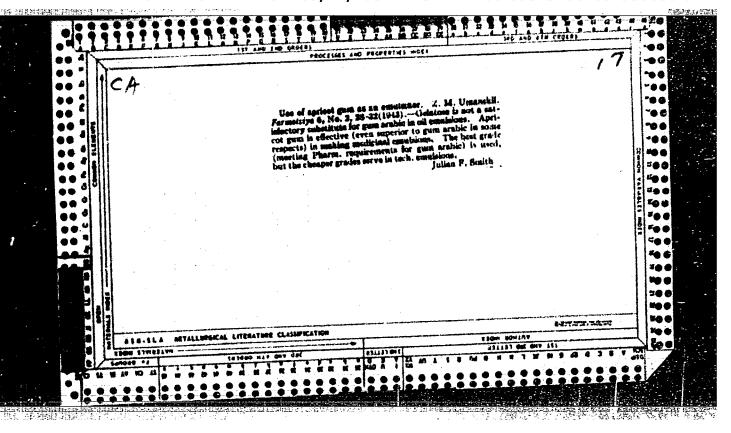
of Ni in NiAl (alloy 4 is close to the boundary of Ni solubility in NizAl). Alloys of the bi-phase NiAl-Ni3Al range were also studied, containing Al (weight %): 5) - 20; 6) - 19.5; and 7) - 17.5. The addition allow and nickel powder were mixed in alcohol for 72 hours and pressed under 3 t/cm2 pressure. Sintering was performed in a TBB -2 (TVV-2) yacuum furnace mainly in a "hydrogen" vacuum which was maintained at > 4 - 5.10-3 mm Hg during the rise of temperature and the sintering temperature. To produce specimens of minimum porosity sintering was carried out at maximum temperatures which were experimentally determined for each alloy $(1,490 - 1,500^{\circ})$ for alloy 1; 1,510 - 1,520° for alloy 2; 1,490 - 1,500° for alloy 3; and 1,430 - 1,440°C for alloy 4). Relative densities of pressed briquets and sintered specimens are given in Table 1. The sintered alloys were subjected to bending and break and tested as to their microhardness and endurance strength. Results are given in Figures 2, 3, 4. It was found that the bending strength of single-phase NiAl alloys at room temperature increased with a higher nickel content in the NiAl compound; maximum strength is offered by an alloy which is on the boundary of the single-phase NiAl and the bi-phase NiAl+Ni-Al range. At high temperatures, the poorest strength characteristics are shown by alloys being near the boundary of the single-phase NiAl range, from the nickel and the aluminum side

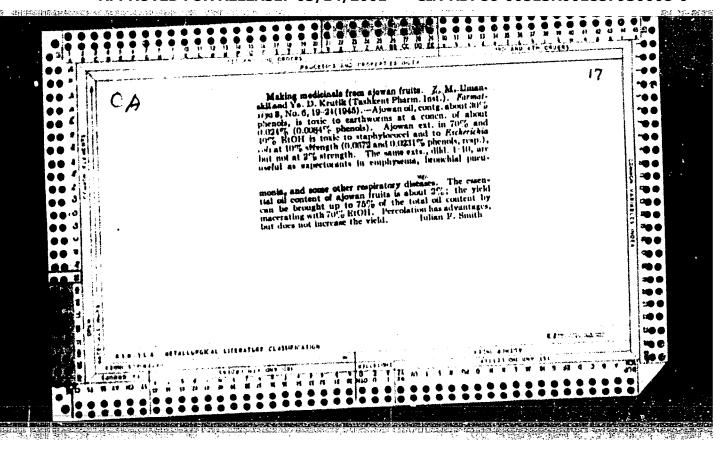
Table 1: Relative densities of pressed and sintered specimens, volumetric and linear shrinkage for single-phase alloys After pressing After sintering								89663	
Table 1: Relative densities of pressed and sintered specimens, volumetric and linear shrinkage for single-phase alloys After pressing Alloy Specific weight of bri- of com- of bri- quets g/cm Charge materi- al 3,75 5,15 72,8 5,2 5,65 92,5 30 10,5 2 4,05 5,20 78,0 5,5 5,93 93,0 28 8,5 3 4.18 5.55 75,5 5,9 6,20 95,0 30 19,5	1 · · · · · · · · · · · · · · · · · · ·	•		•			8/149 A006/	/61 [*] /000/00 4001	2/012/017
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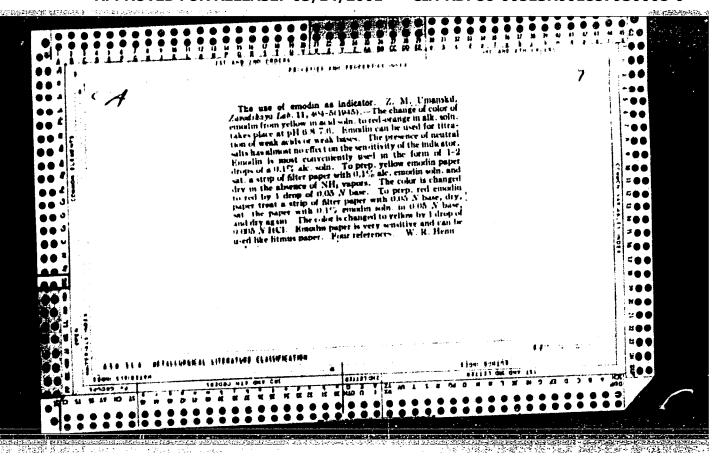


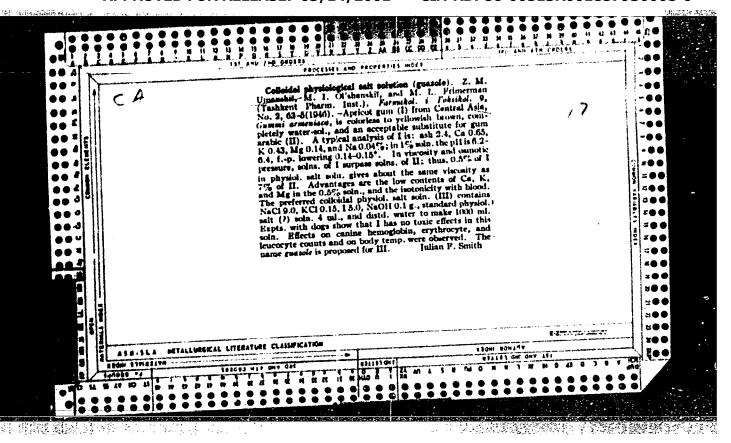












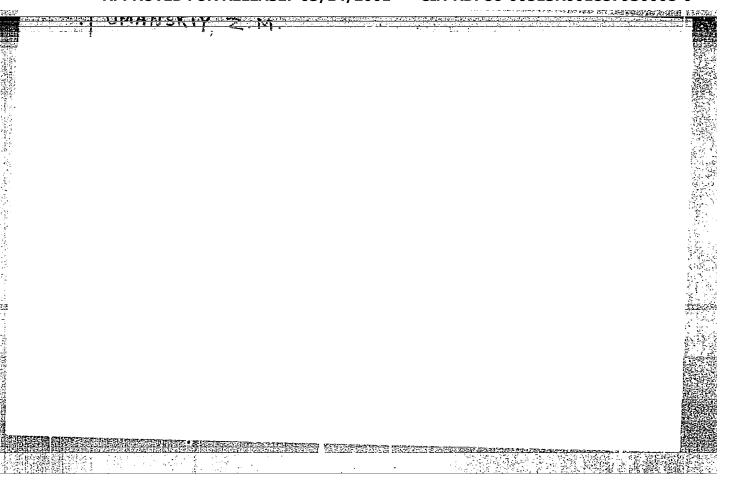
UMANSKIY, Z.M., inshener.

Improved system of centralized truck transport of building materials. Biul. stroi.tekh. 10 no.3:13-14 F '53. (MLRA 6:12)

1. Trest Stalinmetallurgstroy Ministerstva stroitel'stva predpriyatiy tyazheloy industrii. (Transportation, Automotive) (Building materials-Transportation)

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UMANSKIY, Z.M. ZHURAKOVSKIY, I.A.; UMANSKIY, Z.M. Improvement of pharmacy work in Uzbekistan. Apt. delo 3 no.6:29-30 N-D 154. 1. Iz Tashentskogo farmatsevticheskogo instituta Ministerstva zdravookhraneniya Uzbekskoy SSR. (PHARMACY, in Russia, organiz.)



E. MANZINA, A.Sh.; UMANSKIY, Z.M.

Determining the rate of disintegration of pills. Apt.delo 6 no.3:
13-17 My-Jo '57. (MIRA 11:1)

1. Iz kafedry tekhnologii lekarstvennykh form i gelenovykh preparatov (sav. - prof. Z.M.Umanskiy) Tashkentskogo farmatsevticheskogo instituta.

(PILLS)

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上加熱等的人。

SLIVINSKIY, A.I., inzhener; UMANSKIY, Z.M., inzhener.

Using precast reinforced concrete in building casting yards and operation areas of a blast furnace. Stroi.prom. 35 no.2:8-11 (MIRA 10:3)

F **157.*

(Elast furnaces) (Precast concrete construction)

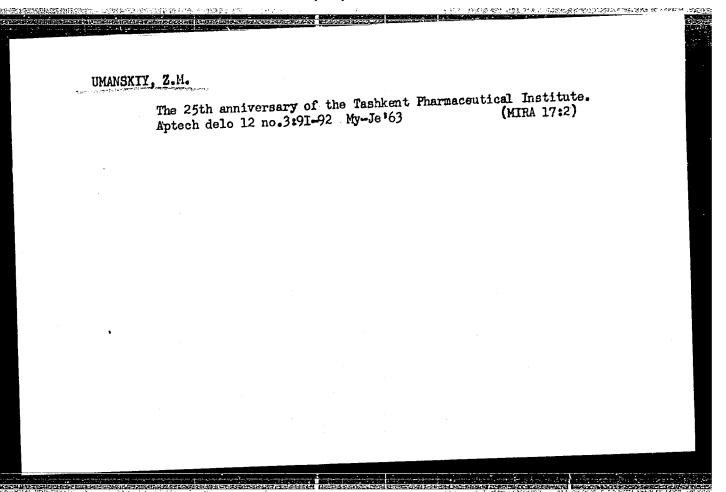
MAKHTAMOV, S.M.: UMANSKIY, Z.M.

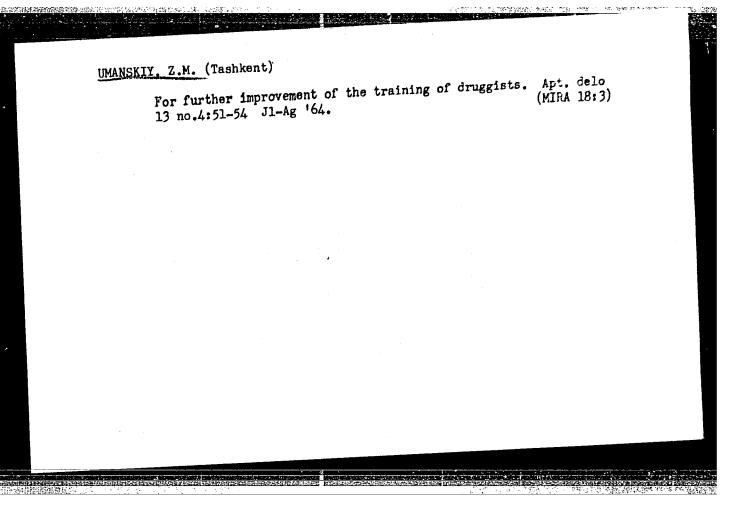
Disintegration period of tablets. Med.pron. 12 no.4:24-27 Ap '58.

(MIRA 11:5)

1. Tashkentskiy farmatsevticheskiy institut.

(TABLETS (MEDICINE)





UMANSKIY, Z.M.

Irrational medicinal prescriptions. Apt. delo 14 no.6:10-14 (MIRA 18:12) N-D '65.

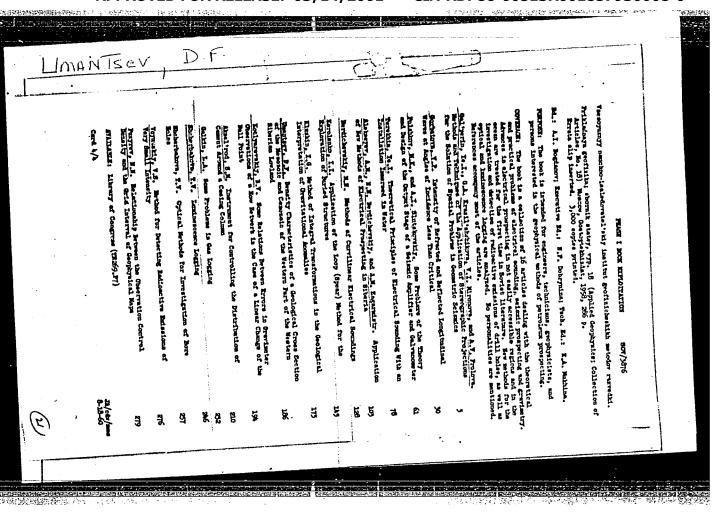
l. Kafedra tekhnologii lekarstvennykh form Tashkentskogo farmatsevticheskogo instituta. Submitted October 28, 1964.

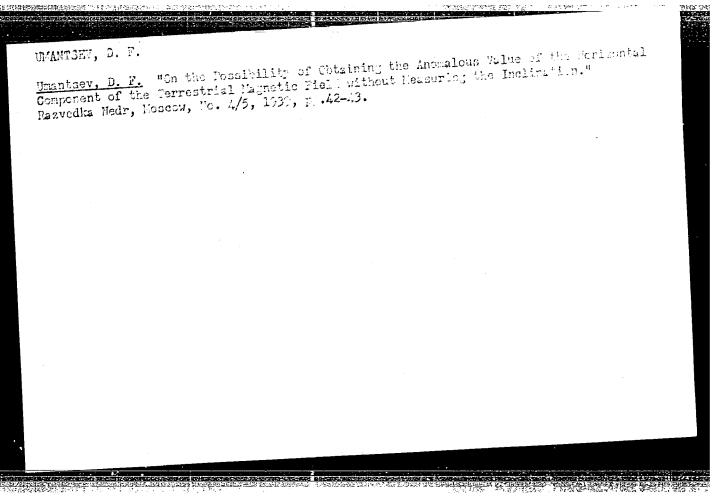
AKUL'SHINA, Ye.P.; BGATOV, V.I.; GURARI, F.G.; GUROVA, T.I.; DERBIKOV, I.V.;
YEGANCY, E.A.; KAZANSKIY, Yu.P.; KALUGIN, A.S.; KAS'YANOV, M.V.;
YEGANCY, E.A.; KASYGIN, Yu.A.; MIKUTSKIY, S.P.; SAKS, V.N.;
KOSOLOBOV, N.I.; KASYGIN, Yu.A.; MIKUTSKIY, S.P.; SAKS, V.N.;
TROFFMUK, A.A.; UMANTSEV, D.D.

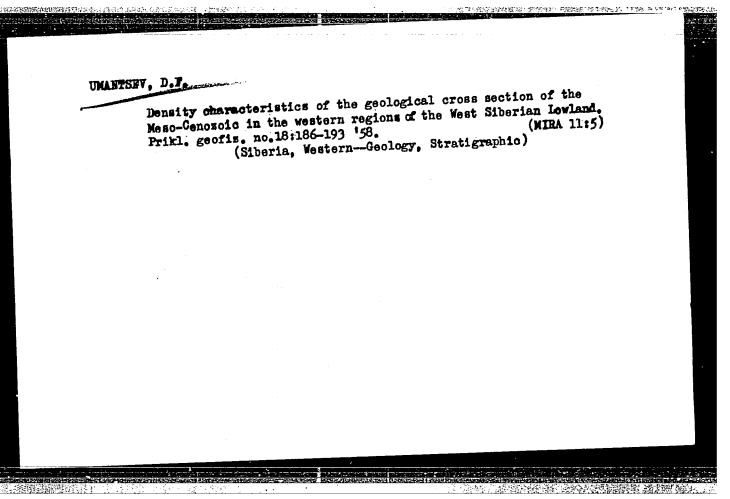
Professor Vladimir Panteleimonovich Kazarinov; on his 50th birthday.

(MIRA 15:7)
Geol. i geofiz. no.3:122-123 '62.

(Kazarinov, Vladimir Panteleimonovich, 1912-)







- 1. UMANTSEV. D. F.
- 2. USSR (600)
- 4. Gay- Geology. Structural
- 7. Report on the geophysical work at the Gayskiy deposits., Abstract Izv. Glav. upr. geol. fon. no. 3. 1947

Monthly Lists of Russian Accessions, Library of Congress, March, 1953, Unclassfied.

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- 1. UMINTSEV, D. F.
- 2. USSR (600)
- 4. Geology, Structural Gay
- 7. Report on the geophysical work at the Gayskiy deposits. /Abstract/. Izv. Glav. upr. geol. fon. no.3. 1947

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

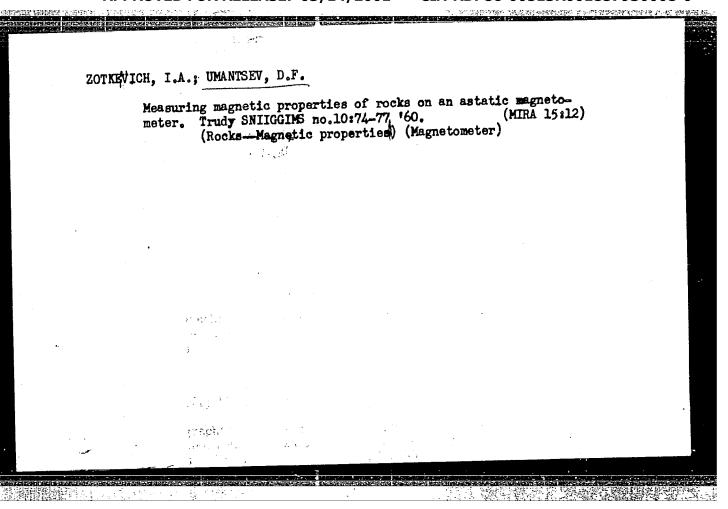
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ROSTOVISEV, N.N.; SIMONENKO, T.N.; UMANTSEV, D.F.

Structure of the folded basement of the West Siberian Plain.
Trudy SNIIGGIMS no.1:11-17 159. (MIRA 15:4)

(West Siberian Plain-Geology, Structural)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001857930008-0"



BUGAYLO, V.A.; UMANTSEV, D.F.

Estimation of the excessive density between incoherent and crystalline complexes. Izv. AN Kazakh.SSR. Ser.geol. no.4: 77-80 '61. (MIRA 15:3)

(Ores -- Density)

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YEKHANIN, Yevgeniy Vladimirovich; ZRADNOVA, Vera Petrovna; MITALEV, Igor' Aleksandrovich; UMANTSEV, D.F., red.; CRIN', Ye.R., tekhn. red.

[Methods for the quantitative study of the tectogenesis of platform structures of the 3d order based on seismic prospecting data]Metod kolichestvennogo izucheniia tektogeneza platformennykh struktur III poriadka po materialam seismorazvedki. Red. D.F.Umantsev. Novosibirsk, Sibirskii nauchno-issl. in-t geol. geofiziki i mineral'nogo syr'ia, 1961. 29 p, (MIRA 15:12)

(Geology, Structural) (Seismic prospecting)

LEBEDEV, I.V., otv.red.vypuska; KAS'YANOV, M.V., glavnyy red.;

GURARI, F.G., zamestitel' glavnogo red.; AMSHINSKIY, N.N., red.;

ARUSTAMOV, A.A., red.; DERBIKOV, I.V., red.; KAZARINOV, V.P.,

red.; KALUGIN, A.S., red.; MALIKOV, B.N., red.; HIKUTSKIY, S.P.,

red.; ROSTOVTSEV, N.N., red.; SUKHOV, S.V., red.; TESLENKO, Yu.V.,

red.; UMANTSEV, D.F., red.; SAFRONOVA, I.M., tekhn.red.;

RAGINA, G.M., vedushchiy red.

[Biostratigraphy of Mesozoic and Tertiary sedimentsin Western
Siberia] Biostratigrafiia mezozoiskikh i tretichnykh otlozhenii
Zapadnoi Sibiri. Moskva, Gostoptekhizdat. Vol. 1. 1962. 590 p.

Vol. 2. [Atlas of paleontological plates and their explanations]
Atlas maleontologicheskikh tablits i ob"iasneniia k nim. 1962.

128 plates. (Its Trudy, no.22).

(MIRA 17:4)

KAZARINOV, V.P., otv.red.vypuska; ROSTOVTSEV, N.N., glavnyy red.; SEGAL', Z.G., vedushchiy red.; GURARI, F.G., zamestitel' glavnogo red.; AMSHINSKIY, N.N., red.; DERBIKOV, I.V., red.; KALUGIN, A.S., red.; MALIKOV, B.N., red.; MIKUTSKIY, S.P., red.; SUKHOV, S.V., red.; TESLENKO, Yu.V., red.; UMANTSEV, D.F., red.; GAVRILOVA, N.V., red.; SAFRONOVA, I.M., tekhn. red.

[Geology and prospects for finding oil and gas in the northwestern part of the Siberian Platform.] Geologicheskoe stroenie i perspektivy neftegazonosnosti severo-zapada Sibirskoi platformy. Leningrad, Gostoptekhigazonosnosti severo-zapada Sibirskoi platformy. Leningrad, Gostoptekhigazon, 1963. 183 p. [Trudy Sibirskogo nauchno-issledovatel'skogo instituta geologii, geofiziki i mineral nego syr'ya, no.28.] (MIRA 16:11)

TUYEZOVA, Nina Aleksandrovna; Prinimali uri stiye: DEMINA, R.G.; BRYUZGINA, N.I.; ROSTOVTSEV, N.N., glavnyy red.; GURARI, F.G., zamestiteli glavnogo red.; UMANTSEV, D.F., red.; DERBIKOV, I.F., red.; KAZARINOV, V.P., red.; KALUGIN, A.S., red.; KOLOBKOV, M.N., red.; MALIKOV, B.N., red.; MIKUTSKIY, S.P., red.; BOTVINNIKOV, V.I., red.; BUDNIKOV, V.I., red.; BOGOMYAKOV, G.P., red.; SURKOV, V.S., red.; SUKHOV, S.V., red.; BOCHAROVA, N.I., red.

[Physical properties of rocks in the West Siberian Plain.]
Fizicheskie svoistva gornykh porod Zapadno-Sibirskoi nizmennosti.
Moskva, Nedra, 1964. 127 p. (Sibirskii nauchno-issledovatel'skii
Moskva, Nedra, geofiziki i mineral'nogo syr'ia. Trudy, no.31).
institut geologii, geofiziki i mineral'nogo syr'ia. (MIRA 18:7)

s/0181/64/006/005/1261/1266 ACCESSION NR: AP4034900 AUTHORS: Bokshteyn, S. Z.; Kishkin, S. T.; Nazarova, M. P.; Svetlov, I. L.; Umantsev, E. L. TITLE: Growth of sapphire whisker SOURCE: Fizika tverdogo tela, v. 6, no. 5, 1964, 1261-1266 TOPIC TAGS: whisker crystal, crystal growth, sapphire, sapphire whisker ABSTRACT: Whisker crystals of Al₂0₃ were grown by high-temperature oxidation of powdered metallic Al in an atmosphere of moist hydrogen. The reaction temperature was 1350-1400C. The authors describe a special apparatus used for growing these orystals, which consists of three essential parts: a tubular furnace, a hydrogen source, and a system for purification and control of hydrogen feed. crystals ranged from 1 to 30 . u in diameter and from 3 to 15 mm in length. in diameter, and 0.5 to 3 mm in Microcrystals ranged from 30 to 350 µ length. Capillaries were observed along the growth axes of some crystals.

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ACCESSION NR: AP4034900

Growth of the whisker crystals is explained on the basis of Franck's theory of crystal growth by screw disbostions. Hexagonal crystal nuclei form in sites where the screw axes emerge with Burgers vector [00017]. Since the dislocations are at right angles to the basal planes, all the whiskers grow parallel to each other in the [00017] direction.

Because of a high modulus of elasticity (52,000 kg/mm²) and a large Burgers vector of dislocations along the [0001/direction, the elastic energy of the dislocation nuclei exceeds the bolding energy of atoms in the crystal lattice. This fact leads to rupture of the lattice, which is then manifested in capillaries along the growth axes of the crystals. Laue patterns and immersion stadies show the crystals to belong to the alpha modification of Al₂O₃ (sapphire). "In conclusion, we thank Ye. V. Kolontsov and I. V. Telegin for their aid in the interpretation of the x-ray patterns." Orig. art. has figures, 1 table, and 3 formulas.

ASSOCIATION: none

SUBMITTED: 08Feb63

ATD PRESS: 3048

ENCL: 00

SUB CODE: 85

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CIA-RDP86-00513R001857930008-0

L 11160-66

ACC NR. AP6015383

(N)

SOURCE CODE: UR/0410/65/000/004/0043/0048

AUTHOR: Umantsey, G. D. (Novosibirsk)

ORG: none

490

TITLE: On analog and discrete signal transformations by neurons

SOURCE: Avtometriya, no. 4, 1965, 43-48

TOPIC TAGS: analog system, discrete automaton, mathematic model, neuron, bionics

ABSTRACT: In order to achieve a more complete understanding of the neuron, the author has considered its characteristics with allowance for its discrete as well as its analog properties. On the basis of well-known electrophysiological data, a neuron model is proposed which is capable of performing analog and discrete operations simultaneously. A model of this type may be useful in the design of complex test-and-measurement facilities, and also for the interpretation of the results of electrophysiological research. The generator pulse found in the case of the receptor cells is analyzed in its interrelation with the work of the synaptic contacts. The possible operating modes of the neuron itself are discussed. It is shown that the same neuron at the same time possesses properties of both a discrete and an analog elements with the result that it is possible to refer to its particular analog-discrete mode. The analog

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character of neuron operation is particularly marked when different frequencies are present on the synapses. A neuron is shown to be capable of varying its mode of operation as a function of the signals it receives. The model presented, therefore, has the capability of performing discrete and analog operations, and also of accomplishing space and time addition of input signals. The neuron is shown to be a self-adapting element and capable, consequently, of simulation in adaptive systems. The principle of the simultaneity of its analog and discrete operations can be incorporated in a device for the simultaneous recognition and measurement of a particular set of signals. Although the neuron model does not reflect many of the peculiarities of the real neuron (adaptation, long-term memory, etc.), it can probably be employed to explain certain electrophysiological data, such as pulse series. Orig. art. has: 7 formulas.

SUB CODE: 06,09/ SUBM DATE: 01Mar65/ ORIG REF: 006/ OTH REF: 015

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CIA-RDP86-00513R001857930008-0

EWI (d) 11161-66 ACC NR. AP6015384 SOURCE CODE: UR/0410/65/000/004/0049/0054

AUTHOR: Nazarov, L. A. (Novosibirsk); Umantsev, G. D. (Novosibirsk)

ORG: none

TITLE: Signal transformation in the peripheral sections of biological analyzers

SOURCE: Aviometriya, no. 4, 1965, 49-54

TOPIC TACE BOUTCE, blonics, blosensor, electronic Switch

ABSTRACT: In order to construct a switching device for a multipoint measuring system utilizing the organizational principles of biological receptor fields, the article analyzes some known data on the structure and operation of the peripheral sections of biological analyzers (receptors and sensors). The character of the potential processes occurring in the sensory receptor cells is described, and formulas are given to describe some of the more important aspects of neuron stimulation potential mechanisms. Certain properties specific to at the receptors (visual, tactile, olfactory, etc.) are considered, and a comparison is made. ween the properties of these sense organ cells, considered separately and in the aggregate, at analogous properties of mechanical sensors. By way of example, the feasibility of employ. T the property of mutual inhibition for single-output sensor switching is analyzed. Orig. art.

UDC: 621,885.659+612.84/88

CIA-RDP86-00513R001857930008-0" **APPROVED FOR RELEASE: 03/14/2001**

ACC	NA AP	0015384								
has: 5 figures and 5 formulas.									1:	
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RUBO, Leonid Grigor'yevich [deceased]; MARSHAK, Yevsey L'vovich;

UMANTSEV, R.B., red.

[Installation of high-voltage machinery windings] Montazh
obmotok elektricheskikh mashin vysokogo napriazheniia.
obmotok elektricheskikh mashin vysokogo napriazheniia.
Moskva, Energiia, 1964. 55 p. (Biblioteka elektromontera,
no.140)

(MIRA 17:12)

UMANTSEVA, A.A.

Preparation of crowns and bridge-like prosthesis without filing of the teeth. Stomatologia 38 no.5:57-58 S-0 '59. (MIRA 13:3)

1. Iz Krasnodarskoy krayevoy stomatologicheskoy polikliniki (glavnyy vrach L.M. Dolgikh, konsul'tant i nauchnyy rukovoditel' - doktor med. nauk Yu.I. Bernadskiy).

(DENTAL PROSTRESIS)

CHICIR', N.I. [Chyhyr', M.I.]; MENYAYIO, F.M. [Mieniallo, F.M.]; MATSKEVICH, I.A. [Matskevych, I.A.]; UMANYSEVA, L.N. [Umantseva, L.M.]

Using the silk screen printing method for the decoration of high-quality glassware. Leh.prom. no.2:62-64 Ap-Je *165. (MIRA 18:10)

KOGON, G.Kh.; BRODSKAYA, F.M.; UMANTSEVA, Z.S.

Deep blastomycosis. Vest.ven. 1 derm. 30 no.2:46 Mr-Ap '56.
(MIEA 9:7)

1. Iz Dnepropetrovskoy oblastnoy koinicheskoy bol'nitsy.
(BIASTOMYCOSIS)

S/058/61/000/010/030/100 A001/A101

24.7900

Iyevskaya, N.M., Umarkhodzhayev, R.M. AUTHORS:

Development of an installation for observing fine structure of nuclear magnetic resonance signals from protons TITLE:

Referativnyy zhurnal. Fizika, no. 10, 1961, 155, abstract 10V285 (V sb. "Paramagnith. rezonans", Kazan', Kazansk. un-t; 1960, 137-141) PERIODICAL:

The authors describe an installation for observing nuclear resonance signals of protons with high resolution. The installation makes use of radiofrequency bridge, superheterodyne amplification and amplitude or phase detection. Signals are observed by means of an oscillograph. Spectra from protons of acetic acid and ethyl alcohol have been obtained. Splitting separations between the spectral lines are respectively equal to 5.6x10-0 and 4.4x10-0 relative units. At slow scanning of magnetic field, fluctuations of signal intensity were observed, caused apparently by nutation of the nuclear magnetization vector. To eliminate this phenomenon, it is necessary that the ratio of the rate of magnetic

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Development of an installation ...

field variation to the square of intensity of radio-frequency field should be more than unity.

N. Pomerantsev

[Abstracter's note: Complete translation]

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