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ACC NR: AP6016141 SOURCE CODE: UR/0103/66/000/005/0157/0166

AUTHOR: Vorob'yev, L. M. (Moscow); Vorob'yeva, T. M. (Moscow)

ORG: none

TITLE: Nonlinear transforms in variational problems

SOURCE: Avtomatika i telemekhanika, no. 5, 1966, 157-166

TOPIC TAGS: variational problem, optimal automatic control, variational calculus

ABSTRACT: The optimization of control processes requires the solution of different variational problems. These solutions are cumbersome and extremely time-consuming. To simplify the solution process, several classes of variational problems, including isoperimetric, are reduced to classical problems in the calculus of variations by nonlinear transforms of the variables. Another group of problems is analyzed by trigonometrical transform of the variables. Specimen calculations are included. The authors thank B. N. Petrov, A. M. Letov and B. S. Stoskov for their interest and comments on the work. Orig. art. has: 12 formulas, 7 figures.

SUB CODE: 12,09/ SUBM DATE: 05Jul65/ ORIG REF: 007/ OTH REF: 002

UDC: 62-505

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Card 1/1

S/081/62/000/024/021/073  
B117/B186

Gas - liquid...

quantity  $\log V$  which takes place when the methylene group is added to the alcohol or acid residue in esters yields formulas for  $\log V$  as a function of the number of the  $\text{CH}_2$  groups in these residues, the determination error  $V$  being  $\leq 6\%$ . If the quantity  $V$  is known for two stationary phases, systems of equations can be solved, the number of  $\text{CH}_2$  groups can be determined, and unknown esters can be identified. [Abstracter's note: Complete translation.]

Card 2/2

VORONTSOV, G.V.; VOROB'YEV, L.N., dots., otv. red.; VESELOVSKIY, G.V.,  
dots., red.; ZARIF'YAN, A.Z., starshiy prepodavatel', red.;  
NAUMOVA, Yu.A., tekhn. red.

[Numerical solution of problems in structural mechanics for  
rods by the mixed matrix method] Chislennoe reshenie zadach  
stroitel'soi mekhaniki sterzhnei po matrichnomu smeshannomu  
metodu. Novocherkassk, Redaktsionno-izdatel'skii otdel NPI,  
1962. 96 p. (MIRA 16:2)

(Elastic rods and wires) (Matrices)

VOROB'YEV, L. N., Engineer

"Methods for Determining the Workability of Metals by Cutting." Thesis for Degree of Cand. Technical Sci. Sub 30 Jun 49, Moscow Automotive Mechanics Inst

Summary 82, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernaya Moskva, Jan-Dec 1949.

VOROB'YEV, L. N.

Vorob'yev, L. N. - "Columns of optimal configuration", Trudy Novocherkas.  
politekhn. in-ta im. Ordzhonikidze, Vol. XXI, 1949, p. 3-46.

SO: U-4631, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 24, 1949).

VOROB'YEV, L. N.

Vorob'yev, L. N. - "A beam of equal stability", Trudy Novcherkas. politekhn. in-ta im. Ordzhonikidze, Vol. XXI, 1949, -. 137-41.

SO: U-4631, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 24, 1949).

VOROB'YEV, L. N.

Vorob'yev, L. N. - "On the problem of extended bending with a shock load", Trudy Novocherkas. politekhn. in-ta im. ofdzhonikidze, Vol. XXI, 1949, p. 143-45.

SO: U-4631, 16 Sept. 53, (Letopis 'Zhurnal 'nykh, No. 24, 1949).

VOROB'YEV, L.N., dotsent, kandidat tekhnicheskikh nauk.

Determining the displacement of points in deformed systems. Nauch. trudy NPI 29:3-24 '55. (MIRA 10:1)

1. Novocherkasskiy politekhnicheskiy institut, Kafedra strel'noy mekhaniki. (Strains and stresses)

VOROB'YEV, L.N., dotsent, kandidat tekhnicheskikh nauk.

Effect of the shear of the inner surface on the intensity of deformations and stresses in thin-walled rods with open cross section and nondeformable contour. Nauch. trudy NPI 26:92-111 '55. (MLRA 9:12)  
(Elastic rods and wires)

VOROB'YEV, L.N., dotsent, kandidat tekhnicheskikh nauk.

Solving plane problem for rectangular orthotropic plates in the theory  
of elasticity. Nauch. trudy NPI 26:120-131 '55  
(Elastic plates and shells)

VOROB'YEV, L.N.

Determination of point displacements in strained systems. Dokl. AN  
SSSR 109 no.3:465-468 J1 '56. (MIRA 9:10)

1. Novecherkassiy politekhnicheskiy institut imeni Sergo Ordzhonikidze.  
Predstavleno akademikom A.I.Nekrasovym.  
(Strains and stresses)

SOKOLOV, L.B.; VOROB'YEV, L.N.; PROFIR'YEVA, Yu.I.; PETROV, A.A.

Regularities of diacetylene addition reactions. Part 5: Hydrogenation  
of monosubstituted conjugated diacetylenes on palladium. Zhur.  
org. khim. 1 no.9:1544-1549 S '65. (MIRA 18:12)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.  
Submitted July 29, 1964.

NEFEDOV, V.D.; SKOROBOGATOV, G.A.; SMIRNOV, V.M.; MUSAKIN, A.P.;  
VOROB'YEV, L.N.

Microsynthesis of C<sup>14</sup> multiple-tagged benzene and isotopic effects.  
Zhur. org. khim. 1 no.9:1615-1620 S '65. (MIRA 18:12)

1. Leningradskiy gosudarstvennyy universitet. Submitted  
July 11, 1964.

VOROB'YEVA, I.A.; VOROB'YEV, L.N.

Effect of adenosine triphosphate on the resting potential and  
the movement of the Nitella mucronata protoplasm. Biofizika  
10 no.6:1007-1013 '65.

(MIRA 19:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva, i Biologo-  
pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta  
imeni M.V.Lomonosova. Submitted May 21, 1965.

ORLOV, V.N.; ORLOV, O. Yu.; PANOV, Ye.N.; CHAYKOVSKIY, Yu.V.; YABLOKOV, A.V.;  
GONCHARENKO, Ye.N.; GORBUNOVA, V.G.; KONOPLYANNIKOV, A.K.;  
KUDRYASHOV, Yu.B.; REUK, V.D.; SHUENIKOVA, Ye.A.; TARUSOV, B.N.;  
PETRUSEVICH, Yu.M.; IVANOV, I.I.; GAPONENKO, V.I.; ANTONOV, V.A.;  
VOROB'YEV, L.N.; BURLAKOVA, Ye.V.; BURDIN, K.S.; PARKHOMENKO, I.M.;  
AGAVERDIYEV, A. Sh.; DOSKACH, Ya. Ye.; TARUSOV, B.N.

Brief news. Biul. MOIP, Otd. biol. 70 no. 6:158-171 N-D '65.  
(MIRA 19:1)

YOBOD'YEV, I.N.; KOVTUNOV, Yu.B.; KURELLA, G.A.; LI SU-YUN<sup>1</sup>

Average activity of potassium salts in the cell juice of Nitella  
mucronata in situ. Biofizika 10 no.3:532-534 '65.  
(MERA 18:11)

1. Biolgo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo  
universiteta imeni Lomonosova. Submitted Aug. 31, 1964.

KONOSHENKO, A.I.; VOROB'YEV, L.N.

Effect of the composition of *Nitella mucronata* cell sap on  
the resting potential. Biofizika 10 no.4:703-704 '65.  
(MIRA 18:8)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo  
universiteta.

VOROB'IEV, L.N.; KURELLA, G.A.

Participation of cell membrane in the selective ion accumulation  
by the cells of Nitella mucronata. Biofizika 10 no. 5:788-795  
'65. (MIRA 18:10)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo  
universiteta imeni M.V.Lomonosova.

RADVAN, R.M.; VOROB'YEV, L.N.

Role of calcium in the generation of action potentials and in  
mobility of protoplasm. Biofizika 10 no.5:889-892 '65.

(MIRA 18:10)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo  
universiteta imeni M.V.Lomonosova.

VOROB'YEV, L.N.

Intracellular activity of chlorides in Nitella. Biofizika 10 no.2  
358-359 '65. (MIRA 18:?)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta  
imeni Lomonosova.

VOROB'YEV, L.N.

Bioelectric phenomena and transitory states of the cell structure.  
(MIRA 18:1)  
Trudy MOIP. Otd. biol. 9:202-206 '64.

BURLAKOVA, Ye.V.; VOROB'YEV, L.N.; KOL'S, O.R.; LIMARENKO, I.M.

Change in the physicochemical state of the nerve during the development of nonconductivity. Trudy MOIP. Otd. biol. 9:224-229 '64. (MIRA 18:1)

1. Kafedra biofiziki Moskovskogo universiteta.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860820012-3

VOROB'YEV, L.N. (Novocherkassk)

Design of cylindrical shells. Izv.AN SSSR. Mekh. i mashinostr. no.4:  
149-154 Jl-Ag '63.

(MIRA 17:4)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860820012-3"

VOROB'YEV, L.N.

Calculation of a long cylindrical shell taking into account the  
displacement of the median surface. Trudy NPI 136:3-9 '63.  
(MIRA 16:10)

(Elastic plates and shells)  
(Strains and stresses)

VOROB'YEV, L.N.; GLAZUNOVA, N.T. (Novocherkassk)

Solving a plane problem for a rectangular region. Stroi. mekh.  
i rasch. soor. 4 no.6:3-6 '62. (MIRA 16:1)  
(Elastic plates and shells)

VOROB'YEV, L. N., kand. tekhn. nauk, dotsent; GLAZUNOVA, N. T., kand.  
tekhn. nauk, dotsent

Plane stressed state of a rectangular anisotropic plate. Izv.  
vys. ucheb. zav.; mashinostr. no. 7:68-74 '62.  
(MIRA 16:1)

1. Novocherkasskiy politekhnicheskiy institut.

(Elastic plates and shells)

VENUS-DANILOVA, E.D.; AL'BITSKAYA, V.M.; PRINTSEVA, Z.V.; VOROB'YEV, L.N.

Conversions of secondary-tertiary acetylenic  $\alpha$ -glycols  
under the effect of sulfuric acid. Zhur.ob.khim. 32 no.7:2118-  
2122 Jl '62. (MIRA 15:7)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.  
(Glycols)

VOROB'YEV, L.N.; KURELLA, G.A.; POPOV, G.A.

Intracellular pH of *Nitella flexillaris* at rest and after  
excitation. Biofizika 6 no.5:582-589 '61. (MIRA 15:3)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo  
universiteta imeni Lomonosova.

(ALGAE)  
(HYDROGEN-ION CONCENTRATION)

VOROB'YEV, L.N.; GLAZUNOVA, N.T.

The Saint Venant principle. Izv.vys.ucheb.zav.; sv.tekh. 4  
no.4:132-137 '61. (MIRA 15:2)

1. Novocherkasskiy politekhnicheskiy institut, kafedra stroitel'noy  
mekhaniki.  
(Elasticity)

*U.D.R.O.B.Y.E.U., L.N.*

- 27
- Prague, 2nd Collection of Czechoslovak Chemical Communications, Vol. 27  
Prague, 1955 (continued)
- Prague, Faculty of Analytical Chemistry at Charles University, Prague, 27  
1955-1956.
57. "Determination Determination of Trivalent Cadmium Ions with Periodate,"  
J. JIRAKOVÁ, B. KREJČÍK and J. ŠTĚKA of the Institute for Analytical  
Chemistry at Charles University, Prague, Prague, 1955-1956.
58. "Thermal Quantitative Analysis, Part XIII. The Nitro Determination  
of Cadmium in Organic Substances by Means of Heating the Electrolytic  
Conductivity and by Pulse Oscillations of the Conductivity Cell," M. TEP-  
ČEK, J. LÍBL and L. LÍBL of the Research Institute for Optical  
Spectra, Prague-Sokolov, 1955-1956.
59. "Methods of Separating Natural Substances, Part V. The Separation  
of Zinc or Mercury in Extracts from Paper Shells," F. HORNÝ, J. KUDLA,  
M. V. KUDLA and Z. ČERNÝ, Research Institute for Natural Substances,  
Prague, 1955-1956.
60. "Spectrophotometric Determination of Copper(II) with the Modified  
Osmium and Ruthenium Method," J. PELIKÁN of the Transfusion Station  
of the National Health in Prague, 1955-1956.
61. "Infrared Chromatography. The Relation between the Retained Elution  
Volumes and the Molecular Structure of Organic Compounds," I. R.  
VODNÝ, Chair of Organic Technology at the Chemical-Technological  
Institute, Prague, 1955-1956.
62. "Photodissociation of an Unidentified Component of Wood Astaxanthin. Part  
II. Determination of the Ratios of the Isomers of Carotenoids in  
I and II, Pallidized Paper-Chromatographic Separation," V. ŠIMČÍČEK  
Institute for Wood Physics and Occupational Diseases, Prague, 1955-1956.
63. "Zincous Acid Compounds and Their Analogs. Part XVII. Reaction  
of Zincous Acid with Alkaline Carboxylic Acids," M.  
FILIPPOVÁ and J. OŘÍŠEK, Institute of Organic Chemistry and Biochemistry  
of the Czechoslovak Academy of Sciences, Prague, 1955-1956 (partially  
in English).
64. "Determination of Potassium-Iodide," J. ŠTĚKA, Department of Organic  
Chemistry at the Institute of Organic Chemistry and Biochemistry,  
Czechoslovak Academy of Sciences, Prague, 1955-1956.
65. "Plant Substances, Part XIII. Separation by Paper Chromatography  
of Phenolic Substances by M. HORNÝ, Institute of Organic Chemistry  
and Biochemistry, Czechoslovak Academy of Sciences, Prague, 1955-1956  
(partially in English).

35117  
S/147/61/000/004/017/021  
E081/E435

10.7000 (also 1327)  
AUTHORS: Vorob'yev, L.N., Glazunova, N.T.

TITLE: The question of Saint-Venant's principle

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy.  
Aviatsionnaya tekhnika, no.4, 1961, 132-137

TEXT: The paper is a continuation of previous work of L.N.Vorob'yev (Ref.6: Doklady AN UkrSSR, No.5, 1954, 39 and Ref.7: Nauchnyye trudy Novocherkasskogo politekhnicheskogo instituta, v.26, no.40, 1955, 120). The problem of a rectangular plate loaded at its ends with a self-equilibrating system of normal and shear stresses, statically equivalent to zero load, is examined to obtain information on the validity of Saint-Venant's principle in the two-dimensional case. The general method adopted is to assume a load distribution  $q(z)$  on the longitudinal edges of the plate (Fig.1). A solution of the plane elasticity problem corresponding to this loading is then obtained by a Fourier series method and by a method involving polynomials. These two solutions are not identical because they lead to different boundary stresses at the ends of the plate. The

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The question of Saint-Venant's ...

E081/E435

difference between the two solutions gives the stress distribution in the plate corresponding to the application of a self-equilibrating stress system at the ends. The actual stress system depends on the initial form chosen for  $q(z)$ . By suitable choice of this function, the solution is found for the following self-equilibrating systems: shear stress along; normal stress alone and a combination of the two. In all the cases considered, the stress in transverse sections falls to a negligibly small value at distances from the end of the plate equal to or greater than its width. There are 2 figures and 3 tables.

ASSOCIATION: Novocherkasskiy politekhnicheskiy institut  
Kafedra stroitel'noy mekhaniki  
(Novocherkassk Polytechnical Institute,  
Department of Structural Mechanics)

SUBMITTED: February 18, 1961

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"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860820012-3

BOVINSKIY, G.D., vrach; VOROB'YEVA, I.A., vrach.; VOROB'YEV, L.N., inzh.

Instruments for acupuncture. Nauka i zhizn' 27 no.12:46-47 D '60.  
(MIEA 13:12)

(ACUPUNCTURE)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860820012-3"

88917

17.2850

S/025/60/000/012/005/006  
A166/A026

AUTHORS: Novinskiy, G.D.; Vorob'yeva, I.A.; Physicians; Vorob'yev, L.N.,  
Engineer

TITLE: Acupuncture Apparatus

PERIODICAL: Nauka i zhizn', 1960, No. 12, pp. 46 - 47

TEXT: The Kafedra biofiziki biologo-pochvennogo fakul'teta Moskovskogo universiteta imeni M.V. Lomonosova (Department of Biophysics of the Biology and Soil Faculty of the Moscow University imeni M.V. Lomonosov) has designed two devices for finding the exact location of acupuncture points. Research has shown that these points, as specified in Chinese medicine, are covered by more friable connective tissue than normally. This can be detected by an electronic device. When the electrode finds such a place it causes a neon lamp to light. In cases where it is impossible to make use of the electronic device a portable acoustic apparatus can be used. This consists of two small metal tubes tipped with rubber caps, which the physician inserts in his ears. The tubes are then scratched along certain lines of the body and the physician analyses the resulting sound. The acupuncture point is indicated by a weakening of the sound, otherwise the sound in both ears is the same. The principle of the device is that the sound caused Card 1/2 *M*

SECRET//SI

88917

8/025/60/000/012/005/CC6  
A166/A026

Acupuncture Apparatus

by friction against the body is transmitted dissimilarly through media of different density. The difference in this case is between normal connective tissue and the more friable skin over the acupuncture points. Work on improving these two devices continues and the scientists concerned are investigating the possibility of designing a portable semiconductor device.

UK

Card 2/2

SOV/144-59-6-15/15

AUTHORS: Natalevich, V.K., Candidate of Physico-mathematical Sciences, Docent, Vorob'yev, L.N., Candidate of Technical Sciences, Docent, and Savel'yev, G.I., Senior Lecturer

TITLE: Conference of Heads of Departments of Advanced Mathematics of Schools of Higher Technical Education in the USSR

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1959, Nr 6, pp 110 - 114 (USSR)

ABSTRACT: The conference took place between May 18 - 23, 1959, in Moscow, and was mainly concerned with suggesting suitable syllabuses for departments of mathematics in technical schools of higher technical education.

Among those who took part were A.N. Kolmogorov, Academician; Corresponding Member of the Ac.Sc., USSR, L.A. Lyusternik; L.I. Sedov, Academician, G.G. Chernyy, Professor, V.V. Sokolovskiy, Corresponding Member of the Ac.Sc., USSR, G.Yu. Dzhanelidze, Professor, V.A. Venikov, Professor and Ya.Z. Tsypkin, Professor. Professor A.F. Bermant was in charge of the organising committee.

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SOV/144-59-6-15/15

Conference of Heads of Departments of Advanced Mathematics of Schools of

Academician A.N. Kolmogorov argued that the probability theory and mathematical statistics are now important not only to artillerymen but also to mechanical engineers, radio engineers and automation engineers.

Academician L.A. Lyusternik argued that, at the present time, mathematics is important not only to engineers but to all other specialists.

Professor A.A. Lyapunov spoke on the importance of mathematics to engineers concerned with cybernetics.

The Minister of Higher Education in the USSR, Professor V.P. Yelyutin, pointed out that recent directives from the Party and the Government emphasise the importance of improving the theoretical knowledge of engineers. The introduction of more advanced mathematics syllabuses in various technological departments is desirable. Among the current important topics are computing machines and their programming. The conference has accepted a number

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SOV/144-59-6-15/15

Conference of Heads of Departments of Advanced Mathematics of Schools of

of resolutions, all of which were concerned with increasing the amount and improving the quality of mathematics given to technologists.

ASSOCIATION: Novocherkasskiy politekhnicheskiy institut  
(Novocherkassk Polytechnical Institute)

*Chair of Building Mechanics*

Card 3/3

SOV/124-57-4-4836

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 135 (USSR)

AUTHOR: Vorob'yev, L. N.

TITLE: On the Equation of the Deflected Axis of a Beam (Ob uravnenii izognutoy osi balki)

PERIODICAL: Nauch. tr. Novocherkas. politekhn. in-t, 1955, Vol 29 (43),  
pp 149-154

ABSTRACT: Bibliographic entry

Card 1/1

124-57-2-2147

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 96 (USSR)

AUTHOR: Vorob'yev, L. N.

TITLE: On the Solution of a Plane Problem of the Theory of Elasticity  
for a Rectangular Orthotropic Plate (Ob odnom reshenii ploskoy  
zadachi teorii uprugosti dlya pryamougol'noy ortotropnoy plasti-  
nki )

PERIODICAL: Nauch. tr. Novocherkas. politekhn. in-ta, 1955, Vol 26, pp 120-  
131

ABSTRACT: Examination of a plane beam, the length of which is significantly greater than its width. The beam is deflected by a continuous loading which is distributed along its upper edge. The problem of the stresses in such a beam is solved by means of the method of successive approximations. As an approximation of rank zero the stresses are determined from the theory of the strength of materials. The author determines thereupon a first approximation for the stress component  $\sigma_z$  from the equations of the compatibility of the deformations and for the stress components  $\sigma_y$  and  $\tau_{yz}$  from the equations of equilibrium. Thereupon the second approximation for  $\sigma_z$  is

Card 1/2

124-57-2-2147

On the Solution of a Plane Problem of the Theory of Elasticity (cont.)

obtained from the equations of the compatibility of the deformations and the second approximations for  $\sigma_y$  and  $\tau_{yz}$  from the equations of equilibrium, etc. In this procedure the boundary conditions along the long sides of the beam are satisfied exactly, while along the short sides they are satisfied approximately (in the integral sense). If the bending load is expressed in polynomial form, then the proposed method leads to an exact solution of the problem.

1. Elasticity--Theory    2. Beams--Deflection    3. Beams  
--Elasticity    4. Beams--Stresses    5. Mathematics    A. S. Kosmodamiyanskiy

Card 2/2

SOV / 124-58-5-5675

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 107 (USSR)

AUTHOR: Vorob'yev, L. N.

TITLE: The Determination of Point Displacement in Deformed Systems  
(K voprosu ob opredelenii peremeshcheniy tochek deformiruyemykh sistem)

PERIODICAL: Nauchn. tr. Novocherk. politekhn. in-t, 1955, Vol 29 (43),  
pp 3-24

ABSTRACT: A quasivirtual-work equation is proposed for the determination of the finite displacement of points in a deformed system. When applied to a system of a number of discrete material points this equation is obtained by summing up the equations of equilibrium of each of the particle elements of the system after their scalar product by arbitrary displacements has been obtained. The author's evaluation of the role of various balance conditions is of dubious value. For example, equations (2. 1) and (2. 3) differ in symbols only, while their meanings are considered to be widely different. Concerning the formulation of the balance conditions of a solid body the author stresses erroneously the existence of 6 equations of equilibrium for an element

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SOV / 124-58-5-5675

**The Determination of Point Displacement in Deformed Systems**

of the solid. In fact the condition requiring the resultant moment of all the forces acting upon the element to be zero leads merely to identities, since the state of stress of the body at any point is determined by the tensor and not by the affinor. The author failed to discern this owing to his unfortunate choice of the component stresses. Examples of the quasivirtual-work equation relative to the study of deformations of rods based on the hypothesis of plane cross sections are examined without due fundamental substantiation.  
Bibliography: 12 references.

L. A. Tolokonnikov

1. Dynamics    2. Mathematics

Card 2/2

VOROB'YEV, L. N., Engineer

Cand. Tech. Sci.

Dissertation: "Methods for Determining the Workability of Metals  
by Cutting."

30/6/49

Moscow AUTOMOTIVE Mechanics

SO Vecheryaya Moscow  
Sum 71

KRENKE, A.N.; VORONINA, L.S.; AVSYUK, G.A., otv. red.;  
OGANOVSKIY, P.N., red.

[Franz Josef Land: Meteorology] Zemlia Frantsa-Iosifa:  
Meteorologiya. Moskva, Nos. 1 - 2. 1963. 2 v.  
(MIRA 18:5)

1. Akademiya nauk SSSR. Institut geografii.

VOROB'YEV, L.V.

Phagocytosis in antidiphtherial vaccination and revaccination.  
Zhur.mikrobiol.epid. i immun. 27 no.4:46-49 Ap '56. (MIRA 9:7)

1. Iz kafedry mikrobiologii Yaroslavskogo gosudarstvennogo meditsinskogo instituta.

(VACCINES AND VACCINATION

diphtheria, causing phagocytosis in guinea pigs)

(PHAGOCYTOSIS

caused by diphtheria vacc. & revacc. of guinea pigs)

(DIPHTHERIA, exper.

vacc. & revacc., causing phagocytosis in guinea pigs)

YAKOVLEV, V.A.; VOROB'YEV, L.V.; LEVCHENKO, L.A.; LINDE, V.R.;  
SLEPKO, G.I.; SYRTSOVA, L.A.

Study of the biological fixation of molecular nitrogen.  
Biokhimiia 30 no.6:1167-1178 N-D '65. (MIRA 19:1)

1. Filial Instituta khimicheskoy fiziki AN SSSR, Moskva.  
Submitted January 18, 1965.

VOROB'YEV, L.V.

Method for applying a protective coating to microscopic specimens.  
Lab. de lo 4 no.2:48 Mr-Ap '58. (MIRA 11:4)

1. Iz kafedry mikrobiologii (zav. - prof. D.F.TSimitalist) Yaroslavskogo meditsinskogo instituta.  
(MICROSCOPY--TECHNIQUE)

VOROB'EV, L.V.

Phagocytic activity in relation to diphtheria bacteria in children  
with positive Schick reaction. Zhur. mikrobiol. epid. i imun.  
31 no.3:93-96 Mr '60. (MIRA 14:6)

1. Iz Yaroslavskogo meditsinskogo instituta:  
(PHAGOCYTOSIS) (DIPHTHERIA)

L 8974-66 EWT(1)/EWT(m)/EWP(t)/EWP(b)/EWA(m)-2 LJP(c) ID/AT  
SOURCE CODE: UR/0181/65/007/011/3404/3406

ACC NR: AP5027423

AUTHOR: Vorob'yev, L. Ye.; Mirzireva, L. P.; Soltamov, U. B.; Stafeyev, V. I.;  
Shturbin, A. V.

ORG: Leningrad Polytechnical Institute im. M. I. Kalinin (Leningradskiy politekhnicheskiy institut)

TITLE: Variation in transmittance of p-germanium in strong electric fields

SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3404-3406

TOPIC TAGS: germanium, semiconductor, hole transition, electron transition, electric field, absorption spectrum

ABSTRACT: Preliminary data are given on the change in transmittance of p-type germanium in electric fields with intensities from 0.5 to 2.1 kv/cm. Curves are given for the variation in the hole absorption cross section as a function of wavelength at a lattice temperature of 88°K, and for modulation of the incident radiation as a function of its wavelength. A maximum is observed in the 3  $\mu$  region, and a minimum in the 4  $\mu$  region. These extrema correspond to a reduction and increase respectively in the transmittance of germanium due to transitions from the heavy hole band to the cleavage band. A third peak in the neighborhood of 4.7  $\mu$  is caused by transitions from the light hole band to the cleavage band, and a fourth near 8  $\mu$  is the result of

Card 1/2

L 8974-66

ACC NR: AP5027423

transitions between the heavy and light hole bands. This fourth extremum corresponds to maximum modulation in the region of greatest change in the absorption cross section. Orig. art. has: 2 figures.

SUB CODE: 20,07/ SUBM DATE: 20Apr65/ ORIG REF: 000/ OTH REF: 006

PC  
Card 2/2

5/161/63/C05/004/002/047  
B102/B186

AUTHORS:

Vorob'yev, L. Ye., Karakushan, B. I., and Stafeyev, V. I.

TITLE:

Effect of a magnetic field on the carrier distribution in the body of a magnetodiode

PERIODICAL: Fizika tverdogo tela, v. 5, no. 4, 1963, 982 - 989

TEXT: The experiments described were made on large-area magnetodiodes with uniform (Figs. 4, 5) or with subdivided (Fig. 10) p-n junctions (Ge). The diode was placed between the pole pieces of a magnet which were provided with conical openings (cf. Fig. 1). An incandescent lamp was used as light source ( $\lambda_{\text{d}} = 3.5 \mu$ ) its light pulses (4 msec) being synchronized with the current pulses sent through the diode. In this wavelength range the absorption coefficient was proportional to the free carrier concentration, the reflection coefficient was 50%. The high magnetic sensitivity of these diodes is due to the fact that the magnetic field alters the spatial distribution of the non-equilibrium carriers in the body of the semiconductor. The changes arise both along and transverse to the current lines and were determined from the light absorption. The results are shown in form of graphs. There are 10 figures and 1 table.

Card 1/4

S/101/63/003/004/002/047  
B102/B186

Effect of a magnetic field on...

ASSOCIATION: Fiziko-tehnicheskiy institut im. A. F. Ioffe AN SSSR Lenin-grad (Physicotechnical Institute imeni A. F. Ioffe AS USSR, Leningrad)

SUBMITTED: September 24, 1962

Fig. 1. Optical arrangement. Legend: A-Magnetodiode, NS - magnet, 3<sub>1,2,3</sub> - mirrors, PbS - photoresistor as receiver, M-modulator, S - spiral; (1) to the oscilloscope.

Fig. 2. Shape of pulse received by the PbS. Legend: t<sub>1</sub> start of light pulse, t<sub>2</sub> start of current pulse, t<sub>3</sub> end of light pulse, t<sub>4</sub> end of current pulse.

Fig. 4. Non-equilibrium carrier distribution along the p-n junction with and without magnetic field for x=1.05 and x=0.1 mm. Legend: 1 s.  
B = 7500 gauss; (1) B<sub>+</sub>, (3) B<sub>-</sub>, (2) B=0.

Car 1 of 4

Effect of a magnetic field on...

S/181/63/005/004/002/047  
3102/3186

Fig. 1

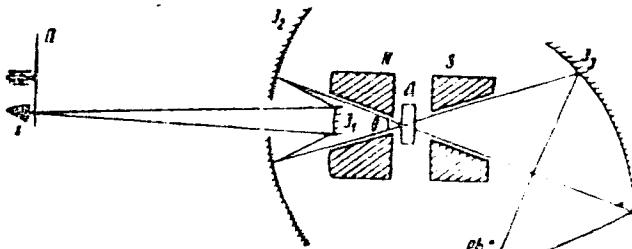
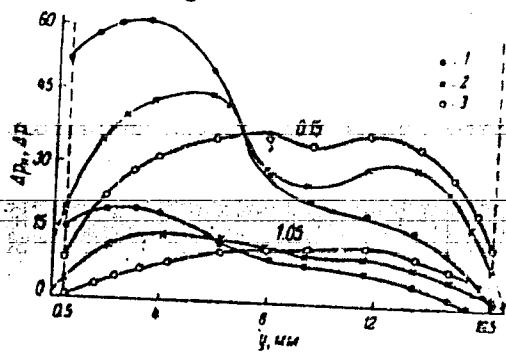


Fig. 4



Card 3/4

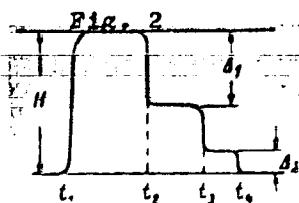


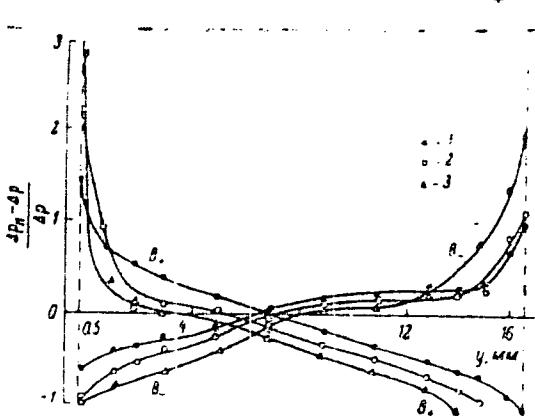
Fig. 2

Effect of a magnetic field on...

S/181/63/005/004/002/047  
E102/B186

**Fig. 5.** Relative change in non-equilibrium carrier concentration.  
Legend:  $I = 10\text{a} = \text{const}$ ,  $B = 7500$  gauss,  $x = 0.15$  mm (1),  $0.75$  mm (2),  
 $1.05$  mm (3).

**Fig. 10.** Carrier distribution along the p-n junction for  $x = 0.15$  and  
 $0.45$  mm. Legend: (1)  $B=0$ , (2)  $B_+ = 6600$  gauss, (3)  $B_- = 6600$  gauss.



Card 4/4

Fig. 5

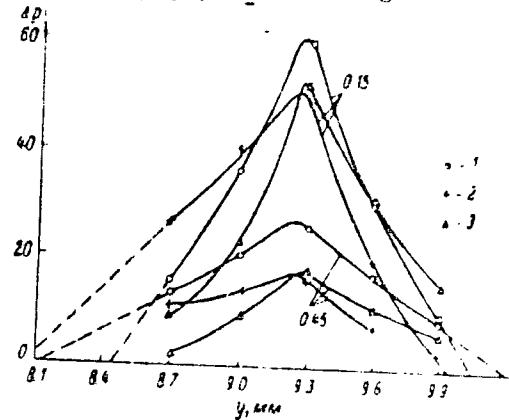


Fig. 10

VOROB'YEV, M.

Shortcomings in major repair work done on apartment buildings in  
the city of Kalinin. Zhil.-komm.khaz. 5 ne.6:19-20 '55. (MIRA 9:1)

1.Predsedatel' pestoyanney zhilishchne-kommunal'ney komissii  
Rayseveta TSentral'nogo rayona G.Kalinina.  
(Kalinin--Apartment houses--Maintenance and repair)

VOROB'YEV, M.

VOROB'YEV, M.

Organizing construction planning and calculations. Zhil.-kons.  
(MIRA 7:9)  
khoz. 4 no.5:4-6 '54.

1. Glavnnyy ekonomist Kalininskogo oblyproyekta.  
(Construction industry)

VOROB'YEV, M.

Georgii Mesropov and his brigade. Prom.koop. 13 no.10:11  
(MIRA 13:2)  
0 '59.

1. Zamestitel' predsedatelya pravleniya arteli "Metallist,"  
g.Groznyy.  
(Groznyy--Machine-shop practice)

VOROB'YEV, M.

Factory of certified seeds. Nauka i pered. op v sel'khoz 9 no. 5:41-43  
(MIRA 12:8)  
My '59.

1. Predsedatel' kolkhoza im. Lenina, Gul'kevicheskiy rayon,  
Krasnodarskogo kraya.  
(Gul'kevichi District--Seed production)

VOROB'YEV, M.

Revising building plans. Zhil.-kom.khoz. 6 no.7:14  
'56.

(MLRA 10:2)

1. Glavnnyy ekonomist Kalininskogo oblprojekta.  
(Architecture--Designs and plans)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860820012-3

VOROB'YEV, M.

Defeat of Baptists. Sov.shakht. 10 no.9:34-35 S '61.  
(MIRA 14:8)

(Religion)  
(Coal miners)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860820012-3"

VOROB'IEV, M.

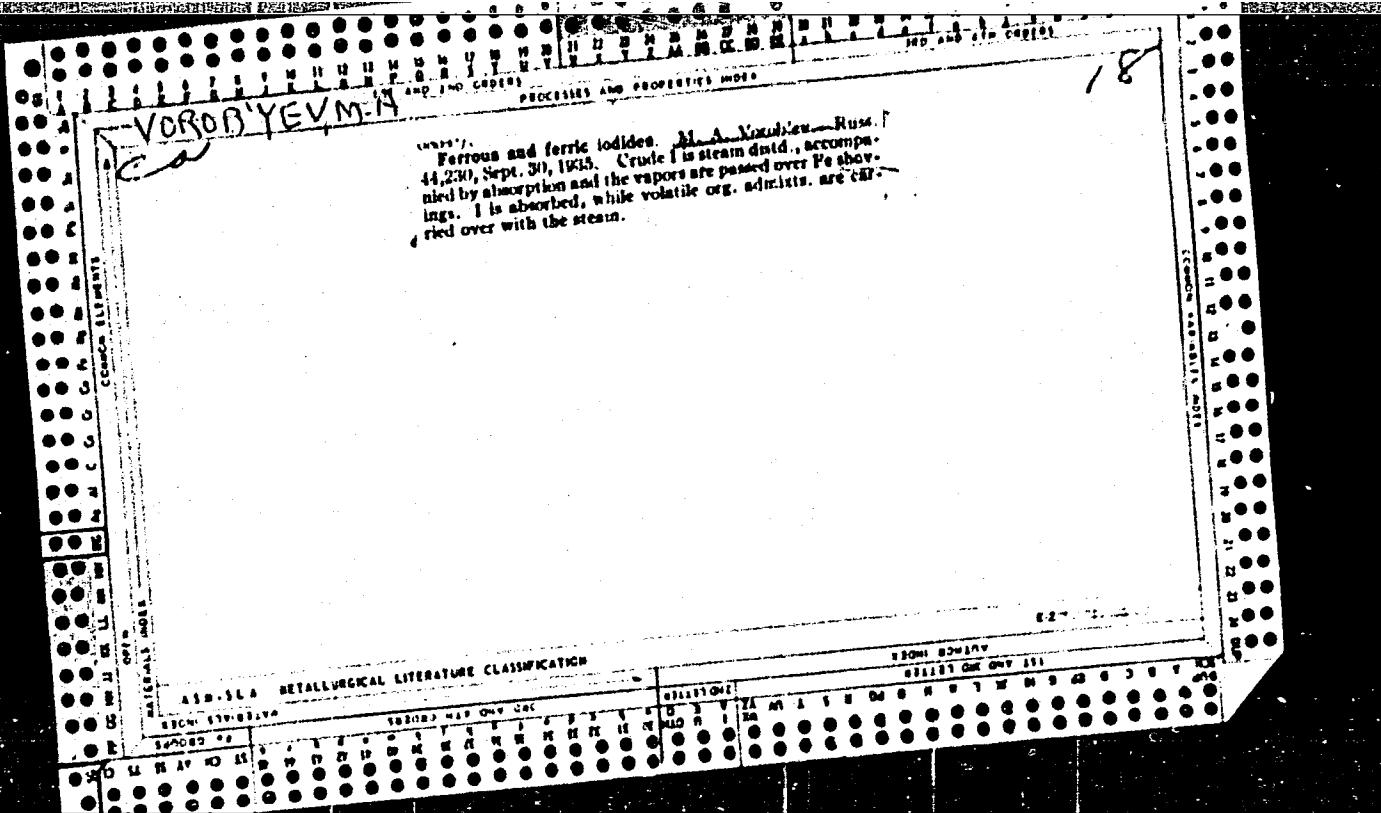
Radio - Kharkov.

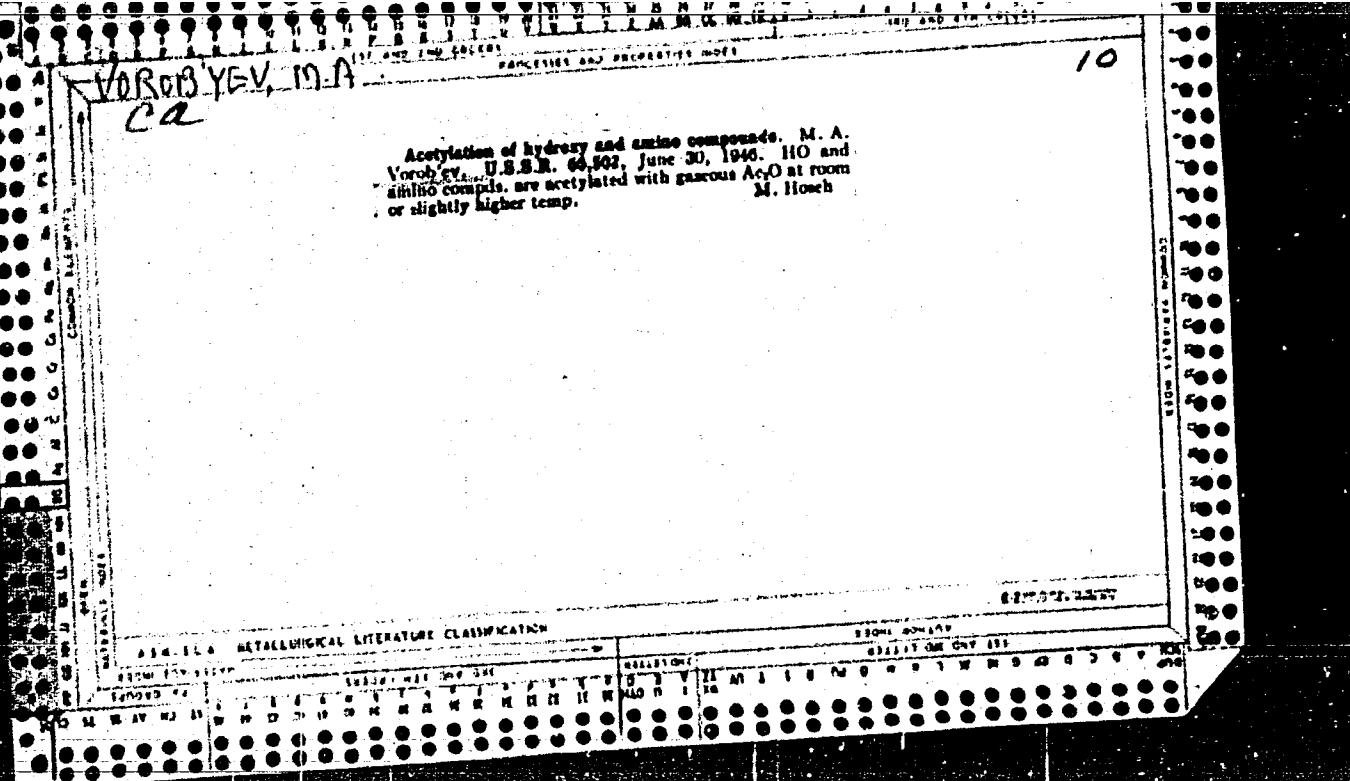
Conference of amateur radio designers of Kharkov. Radio, no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 195~~6~~? Uncl.

VOROB'YEV, M.A. (Sakhalinskaya obl., pos. Smirnykh, ul. Gor'kogo, d.15)

Use of sergosin in varicose veins. Vest. khir. 91 no.8:129-130  
(MIRA 17:3)  
Ag#63





VOROB'YEV, M.A., mladshiy nauchnyy sotrudnik; KLENINA, N.V., aspirant.

Treating gastrointestinal diseases in calves with remedies of  
vegetable origin. Veterinariia 32 no.12:58-59 D '55.(MLRA 9:4)

1.Vsesoyuznyy institut eksperimental'noy veterinarii.  
(COWS--DISEASES)(VETERINARY MEDICAL AND PHARMACY)  
(DIGESTIVE ORGANS--DISEASES)

VOROB'YEV, M. A.

AUTHORS: Preobrazhenskiy, N. A., Malkov, K. M., Maurit, M. Ye., Vorob'yev, M. A. Vlasov, A. S. 79-11-53/56

TITLE: Synthesis of the Alkaloid Arecoline and its Homologues  
(Sintez alkaloida arekolina i yego gomologov).

PERIODICAL: Zhurnal Obshchey Khimii, 1957, Vol. 27, Nr 11,  
pp. 3162-3170 (USSR)

ABSTRACT: The alkaloid of the Areca Catechu palm recognized as N-methyl-1,2,5,6-tetrahydronicotinic acid ester (see its hydrogen bromide salt in formula VI) was hitherto synthesized in different manners. The authors carried out a synthesis of this alkaloid and its homologues of special practical importance with different substituents on nitrogen, starting from the methyl ester of acrylic acid (see series of formulae I-VI). The reaction of the methylacrylic acid ester upon alkylamines leads to the formation of  $\beta,\beta'$ -dicarbometoxydiethylalkylamines. The cyclization to N-alkyl-3-carbometoxy-4-piperidone takes place in alcholate by heating of the diester of one of these amines. This piperidine is reduced to N-alkyl-3-carbometoxy-4-

Card 1/3

Synthesis of the Alkaloid Arecoline and its Homologues 79-11-53/56

oxypiperidine. By dehydration with the aid of dehydrating agents the latter is converted to the methyl ester of N-alkyl-

- $\Delta^3$ -

tetrahydronicotinic acid which latter with hydrogen bromide forms the salt. The following homologues of arecoline were synthesized according to one and the same method: The methyl esters of N-ethyl-, N-n.-propyl-, N-n.-butyl- and N-benzyl- $\Delta^3$ -tetrahydronicotinic acid. The physiological investigations in the pertinent Moscow institutes showed that the produced hydrobromide of arecoline completely corresponds with the same salt of the natural alkaloid. Of the arecoline homologues only the n-propyl derivative exerts a weak physiological action. There are 9 references, 5 of which are Slavic.

Card 2/3

Synthesis of the Alkaloid Arecoline and its Homologues 79-11-53/56  
ASSOCIATION:

Moscow Institute of Fine Chemical Technology.

Experimental Plant of the All-Union Chemical Pharmaceutical  
Scientific Research Institute

(moskovskiy institut tonkoy knimicheskoy tekhnologii.  
Opytnyy zavod vsesoyuznogo nauchno-issledovatel'skogo  
khimiko-farmatsevticheskogo instituta).

SUBMITTED: October 20, 1956

AVAILABLE: Library of Congress

1. Arecoline - Synthesis
2. Alkaloids - Synthesis
3. Aroca Catechu Palm
4. Alkaloids - Sources

Card 3/3

Vorob'yev, M.A.

SUVOROV, N.N.; YAROSLAVTSEVA, Z.A.; SOKOLOVA, L.V.; MOROZOVSKAYA, L.N.;  
OVCHINNIKOVA, Zh.D.; MURASHEVA, V.S.; MEYRELMAN, F.Ya.; VOROB'YEV, M.A.

Synthesis of cortisone from solasodine. Med.prom. 12 no.2:7-11 F '58.  
(MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S.Ordzhonikidze.  
(SOLASODINE) (CORTISONE)

Vorobjev, M.A.

2.(1,3)

P.D

PHASE I BOOK EXPLOITATION

SOV/3247

Moscow. Inzhenerno-fizicheskiy institut

Nekotoryye voprosy eksperimental'noy fiziki, vyp. 1 (Some Problems in Experimental Physics, Nr 1) Moscow, 1959. 85 p. 3,000 copies printed.

Sponsoring Agency: Ministerstvo vyshego i srednego spetsial'nogo obrazovaniya SSSR.

Ed.: V.F. Semenov, Candidate of Physical and Mathematical Sciences, Docent;  
Tech. Ed.: R.A. Negrimovskaya.

PURPOSE: This book is intended for physicists, chemists and other persons interested in general problems of nuclear physics and physical and chemical analyses.

COVERAGE: The collection contains 10 articles dealing with problems in elementary particle acceleration, radiography and crystal structure, physical and chemical analysis and instrumentation in these fields. References and mention of personalities accompany each article.

Card 1/3

SOV/3247

## Some Problems in Experimental Physics, Nr 1

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Card 2/3

Some Problems in Experimental Physics, Nr 1

SOV/3247

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in Flowing Vapors of Alcohols of the Aliphatic Series, Acetone and  
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Vorob'yev, M.A. The Double Refraction of Crystals of the  
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AVAILABLE: Library of Congress

Card 3/3

TM/gmp  
3-21-60

VOROB'YEV, M.A.

New plans for service stations. Transp. i khran. nefti i  
nefteprod. no. 3:38-40 '64. (MIRA 17:5)

1. Glavnoye upravleniye po transportu i snabzheniyu neft'yu  
i nefteproduktami RSFSR.

VESELOVA, T.P.; VOROB'YEV, M.A.; VELIKOVSKAYA, Yu.A.; KOSTENKO, T.F.;  
DOBROSHINA, M.V.

Toxicity of hexachloroethane for cattle. Veterinarija 41  
no.4:55-57 Ap '64. (MIRA 17:8)

1. Vsesoyuznyy institut gel'mintologii imeni akademika K.I.  
Skryabina.

VESELOVA, T.P., kand. vet. nauk; VOROB'IEV, M.A., mladshiy nauchnyy sotrudnik; DOROSHINA, M.V., mladshiy nauchnyy sotrudnik; VELIKOVSKAYA, Yu.A., vet. vrach; KOSTENKO, T.F., uchenyy zootekhnik

Significance of the injection of hexachloroethane in medicinal form to the cattle with fascioliasis. Trudy VIGIS 11:202-206 '64. (MIRA 18:12)

VESELOVA, T.F., kand. vet. nauki; VOROB'YEV, N.A., mladshiy nauchny  
sotrudnik

Side effect of carbon tetrachloride in cattle following intra-  
muscular injection. Trudy VIGIS 11:22-24 '64. (MIRA 18:12)

VOROB'YEV, M.A.

Group application of anthelmintics in swine ascariasis.  
Trudy VIGIS 11:25-29 '64. (MIRA 18:12)

L 52260-65 EIP(n)-2/EPA(n)-2/EAT(n)/EIA(c)/EAP(b)/T/EAP(t) Pu-4 IJP(c) ES/  
W/IV/JD/JG UR/0089/65/018/004/0357/0361  
ACCESSION NR: IP5012470

AUTHOR: Ivanov, V. Ye.; Zelenkiy, V. F.; Kunchenkó, V. V.; Royenko, N. M.; Stuk-  
alov, A. I.; Vorob'yev, N. A.; Avrenko, A. V.

TITLE: Relation between texture and radiative growth in uranium rods.

SOURCE: Atomnaya energiya, v. 18, no. 4, 1965, 357-361.

TOPIC TAGS: reactor fuel element, uranium reactor fuel, reactor fuel texture,  
radiative growth, fuel element stability

ABSTRACT: The authors analyze the textures produced in uranium during its heat  
treatment and establish a quantitative connection between the texture and the co-  
efficient of radiative growth in uranium. This research was undertaken in connection  
with the development of a wire-type fuel element. The material tested was 99.78-99.80% pure uranium  
at Second Geneva Conference). The material tested was 99.78-99.80% pure uranium  
4 mm in diameter subjected to  $\beta$ -treatment at temperatures of 200-300, 450-470,  
and 480°C. The texture was investigated by means of x-ray structural and dilatometric  
analysis. The texture description as related to the anisotropic radiative growth  
was based on the "growth index" method proposed by E. Strurcken and W. McDonald  
(J. Nucl. Materials, v. 7, 85, 1962). Curves are plotted of the radiative growth.

Contd. 1/2

L 52260-65

ACCESSION NR: AP5012470

G<sub>1</sub> against the growth index GI and are found to be independent of the treatment temperature. The elongation component due to the radiative growth as a result of the texture is calculated and its dependence on temperature is evaluated. An increase in treatment temperature results in a comparatively small increase in elongation, due probably to swelling. A load of 0.25 kg/mm<sup>2</sup> along the sample axis produced at 470°C an insignificant increase in elongation. It is shown that the average values of the coefficients of linear thermal expansion measured in one direction do not describe the character of texture if the latter is not uniaxial. It is concluded that uranium wire with weakly pronounced texture may be highly sensitive to factors not connected with the initial structure. Orig. art. has 4 figures. (02)

ASSOCIATION: none

SUBMITTED: 04May64

ENCL: 00

SUB CODE: NP

NO REF Sov: 007

OTHER: 004

ATD PRESS: 4010

Card 212718

POYARKOV, A.A.; VESELOVA, T.P.; VOROB'YEV, M.A.; DOROSHINA, M.V.

Testing hexachloro-para-xylylene against fascioliasis in sheep.  
Veterinariia 31 no.2:49-50 F '65. (MIRA 12:3)

1. Nachal'nik Oblastnogo veterinarnogo otdela Smolenskoy oblasti  
(for Poyarkov). 2. Vsesoyuznyy institut gel'mintologii imeni  
akademika K.I. Skryabina (for all except Poyarkov).

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860820012-3

IVANOV, V.Ye.; ZELENSKIY, V.F.; KUNCHENKO, V.V.; ROYENKO, N.M.; STUKALOV, A.I.;  
VOROB'IEV, M.A.; AZARENKO, A.V.

Interrelation between the texture of uranium rods and their  
expansion due to radiation. Atom. energ. 18 no.4:357-361 Ap  
'65. (MIRA 18:4)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860820012-3"

VESSELOVA, T.P., nauchnyy sotrudnik; VOROB'YEV, M.A., mledshiy  
nauchnyy sotrudnik

Combined use of carbon tetrachloride and hexachloroethane in  
treating fascioliasis in cattle. Veterinaria 39 no.6:31-34  
Je '62 (MIRA 18:1)

1. Vsescyuznyy institut gel'mintologii imeni akademika  
K.I.Skryabina.

VOROB'YEV, M.A.

Operating mobile automobile service stations. Transp. i khran. nefti  
i nefteprod. no.10:18-19 '64. (MIRA 17:12)

1. Glavnoye upravleniye po transportu i snabzheniyu neft'yu i  
nefteproduktami RSFSR.

VOROB'YEV, M.A.

Natural losses of petroleum products in service stations.

Transp. i khran. nefti i nefteprod. no.5:23-26 '64.

(MIRA 17:8)

1. Glavnaya upravleniya po transportu i snabzheniyu neft'yu i  
nefteproduktami RSFSR.

VESELOVA, T.P., dotsent; VOROB'YEV, M.A., mladshiy nauchnyy sotrudnik;  
DOROSHINA, M.V., veter. vrach

The fasciolicidal preparation hexachlorparaxylol. Veterinariia  
40 no.4:52 Ap '63. (MIRA 17:1)

l. Vsesoyuznyy institut gel'mintologii imeni akademika  
K.I. Skryabina.

VESELOVA, T.P., kand. veterinarnykh nauk; VOROB'YEV, M.A.,  
veterinarnyy vrach; DOROSHINA, M.V., veterinarnyy vrach

Possibilities for the application of technical carbon tetrachloride in cattle fascioliasis. Veterinariia 39 no.10:29-30  
O '62. (MIRA 16:6)

1. Vsesoyuznyy institut gel'mintologii imeni akademika K.I.  
Skryabina.

(Carbon tetrachloride)  
(Liver fluke)  
(Parasites—Cattle)

VESELOVA, T. P. (Senior Scientific Co-Worker) and VOROB'YEV, M. A. (Junior  
Scientific Co-Worker, All-Union Institute of Helminthology imeni Academician  
K. I. Skryabin)

"A combined use of tetrachloride of carbon and hexachloroethane in  
fasciolosis of cattle"

Veterinariya, vol. 39, no. 6, June 1962 pp. 31

AKHAPKINA, A.I., nauchnyy sotr.; GORYACHEVA, L.M., nauchnyy sotr.; ISTOMINA, I.V., nauchnyy sotr.; KASHIKHIN, L.S., nauchnyy sotr.; ROZHKOVA, T.D., nauchnyy sotr.; KOPYLOV, D.I., kand. istoricheskikh nauk, red.; VOROB'YEV, M.A., red.; OVECHKIN, L.T., tekhn. red.

[Thirty years of the Yamal-Nenets National Area] 30 let Yamalo-Nenetskogo okruga; istoriko-ekonomicheskii ocherk, Tyumen', 1960.  
87 p. (MIRA 14:10)

1. Tyumen' (Province) Upravleniye vnutrennikh del. Arkhivnyy otdel.
2. Tyumenskiy oblastnoy Gosudarstvennyy arkhiv, Tobol'sk (for Akhapkina, Goryacheva, Istomina, Kashikhin, Rozhkova).  
(Yamal-Nenets National Area—Economic conditions)

VOROB'YEV, N.A., sledistnyy nauchnyy sotrudnik

Comparative evaluation of the therapeutic effectiveness of piperazine salts in swine ascariasis. Trudy VIGIS 10:184-195 '63.

(MIRA 17:9)

ALEKSANDROVSKIY, B.P.; VOROB'YEV, M.F.; DEDUSHENKO, V.I.; MAMOLAT, A.S.;  
RICHENKO, S.G.; KHUTORSKAYA, V.D.; YASHCHENKO, T.T.

Clinical X-ray and functional characteristics of patients with  
a solitary lung 9-10 years after pneumonectomy. Probl. tub.  
no.2:23-28 '65. (MIRA 18:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut tuberkuleza  
i grudnoy khirurgii imeni akademika F.G.Yanovskogo (direktor -  
dotsent A.S.Mamolat), Kiyev.

VOROB'YEV, M.F.

Desensitizing effect of calcium chloride in hypersensitivity  
to streptomycin. Probl. tuberk., Moakva No.6:71-72 Nov-Dec 1953.  
(OIML 25:5)

1. Of the Therapeutic Clinic (Head -- Docent B.P. Aleksandrovoy),  
Ukrainian Scientific-Research Tuberculosis Institute (Director --  
A.B. Mamolat).

DIDENKO, V.Ye.; TSAREV, M.N.; DMITRIYEV, M.M.; LEYTES, V.A.; OBUKHOVSKIY,  
Ya.N.; IVANOV, Ye.B.; CHERTOK, V.T.; URSALENKO, R.H.; KRIGER, I.Ya.;  
PINCHUK, A.K.; ANTONENKO, N.Z.; SMUL'SON, A.S.; VASIL'CHENKO, S.I.;  
DRASHKO, A.M.; RAYEVSKIY, B.N.; KUCHIRYAVENKO, D.N.; SAVCHUK, A.I.;  
ZHURAVLEVA, L.I.; BAUTIN, I.G.; KHRIYENKO, V.Ya.; MOSENKO, N.K.; CHE-  
BONENKO, G.P.; LISSOV, L.K.; MAMONTOV, V.V.; BELUKHA, A.A.; POYDUN, V.P.;  
VOLODARSKIY, M.B.; KAL'CHENKO, G.D.; LEVCHENKO, V.M.; BASHKIROV, A.A.;  
VOROB'YEV, M.F.; IL'CHENKO, L.I.; PODSHIVALOV, F.S.; MOGIL'NYY, P.P.;  
LEVI, A.H.; VASLYAYEV, G.P.; DURNEV, V.V.; OSYPA, S.S.; SAMOFALOV, G.N.;  
FOMIN, A.P.; LESHCHINA, A.I.; FANKEL'BERG, G.Ye.; KHODANKOV, A.T.;  
MAKARENKO, I.S.; KARPOVA, K.K.; VASILENKO, I.M.; VOLOSHCHUK, A.S.; SHEL-  
KOV, A.K.; FILIPPOV, B.S.; TYUTYUNNIKOV, G.N.; DOLINSKIY, M.Yu.; NIKI-  
TINA, P.P.; MEDVEDEV, S.M.; TSOGLIN, M.E.; LERNER, R.Z.; BOGACHEV, V.I.

Mikhail IAkovlevich Moroz; obituary. Koks i khim.no.3:64 '56.(MLRA 9:8)  
(Moroz, Mikhail IAkovlevich, 1902?-1956)

VOROB'YEV, M.F.

ACTH therapy in severe cases of bronchial asthma with open form  
of pulmonary tuberculosis [with summary in French]. Probl.tub. 35  
no.1:95-97 '57. (MIRA 10:6)

1. Iz statcionara protivotuberkuleznogo dispansera Laganovichskogo  
rayona Kiyeva (glavnyy vrach Ye.G.Sinyuk).  
(ASTHMA, compl.  
tuberc., pulm., ther., ACTH & chemother. (Rus))  
(ACTH, ther. use  
asthma with pulm. tuberc., with chemother. (Rus))  
(TUBERCULOSIS, PULMONARY, compl.  
asthma, ther., ACTH & chemother. (Rus))

VOROB'YEV, M.F.

Prolonged treatment of fresh cavernous forms of tuberculosis with  
antibacterial preparations. Vrach. delo no. 5:40-45 My '61.

(MIRA 14:9)

1. Vtoraya terapeuticheskaya klinika (zav. - dotsent V.P. Aleksandrovskiy) Ukrainskogo nauchno-issledovatel'skogo instituta tuberkuleza.  
(TUBERCULOSIS)

VOROB'YEV, M.F. (Kiev)

Streptomycin stimulation of the growth of malignant tumors. Vrach.  
delo no.7:759 Jl '59. (MIRA 12:12)

1. Vtoraya terapeuticheskaya klinika (zav. - dotsent B.P. Aleksandrovskiy) Ukrainskogo nauchno-issledovatel'skogo instituta tuberkuleza.  
(STREPTOMYCIN) (CARCINOGENS)

VOROB'YEV, M.F.

Case of chronic miliary pulmonary tuberculosis and tuberculosis  
of the larynx complicated by candidomycosis. Probl.tub. 36  
no.7:111-113 '58. (MIRA 12:8)

1. Iz vtoroy terapevticheskoy kliniki (zav. - dotsent B.P.  
Aleksandrovskiy) Ukrainskogo nauchno-issledovatel'skogo insti-  
tuta tuberkuleza (dir. - kand.med.nauk A.S.Mamolat).  
(TUBERCULOSIS) (MONILLIASIS)

EYGENSON, A.S.; UL'YANOV, A.I.; VARFOLOMEYeva, Ye.M.; VOROB'YEV, M.F.;  
KARPONOSOVA, R.M.

Laboratory method for determining the content of salts in petro-  
leums. Ihim. i tekhn.topl. no.11:60-64 N '56. (MLRA 9:11)

1. Ufimskiy neftepererabatyvayushchiy zavod.  
(Petroleum—Analysis)

20682

S/120/61/000/001/016/062

E032/E114

26.2244

AUTHORS: Dmitriyev, A.B., and Vorob'yev, M.G.

TITLE:  $\gamma$ -Background Compensated Boron Trifluoride Chamber

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No.1, pp.55-57

TEXT: A description is given of a  $\text{BF}_3$  chamber compensated for  $\gamma$ -background. The chamber is designated KHK-54 (KNK-54). The sensitivity of the chamber for thermal neutrons is  $5 \times 10^{-13} \text{ A/neutron/cm}^2 \text{ sec}$ , while sensitivity to  $\gamma$ -rays can be reduced practically to zero. In contrast to the previous models, the boron filled and compensating parts are separate. The  $\text{BF}_3$ -filled part of the chamber is shown in Fig.2. It consists of a high-voltage anode 1 made of tubes 44 and 26 mm in diameter, and a collecting electrode 2 consisting of tubes 35 and 18 mm in diameter. The compensating part of the chamber is formed by the high-voltage cathode 3 (7.2 mm in diameter) and the collecting electrode (18 mm in diameter). The collector-electrode tube separates the  $\text{BF}_3$ -filled and compensating parts. The complete sealing off of the two parts is achieved by means of the ceramic-to-metal seals 4. The length of the electrode system is

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$\gamma$ -Background Compensated Boron Trifluoride Chamber

322 mm. The chamber is evacuated and filled through the tubes 6. The upper and lower flanges 5 and 7 are welded to the stainless steel body 8 (50 mm in diameter). The electrodes are introduced through three insulators 10 (only one is shown in Fig.2). The chamber can be used at temperatures up to 300 °C. The boron part of the chamber is filled with  $BF_3$  (85%  $B^{10}$ -enriched) to a pressure of 2 atm. The compensating part is filled with krypton to a pressure of about 6.5 atm. The  $\gamma$ -ray sensitivity is compensated continuously by adjusting the voltage on the cathode (H.S. McCreary and R.T. Bayard, Ref.3). Fig.3 shows the current from the chamber as a function of the neutron flux in arbitrary units for anode voltages of 500 V and 1000 V. There are 3 figures, 1 table and 3 references: 1 Soviet and 2 English.

SUBMITTED: January 14, 1960

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