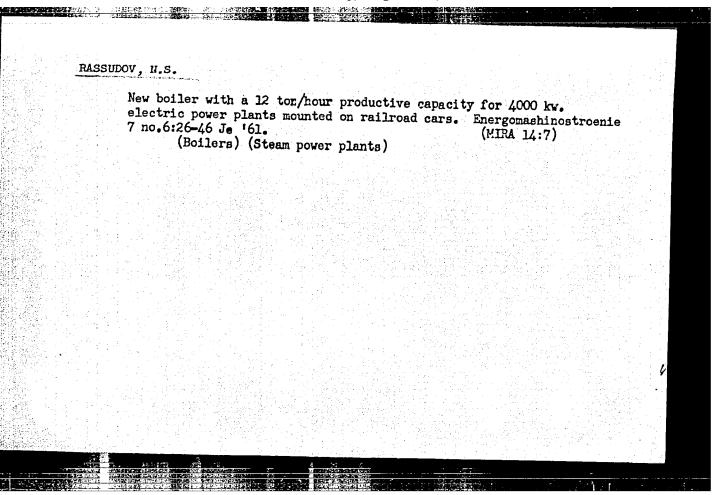
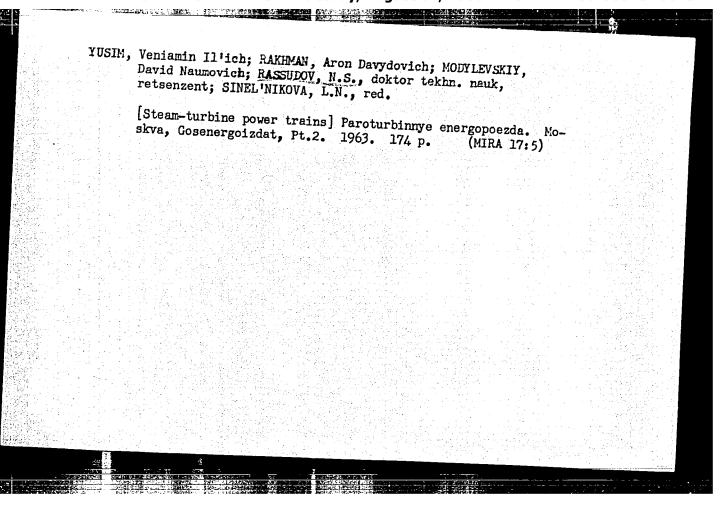
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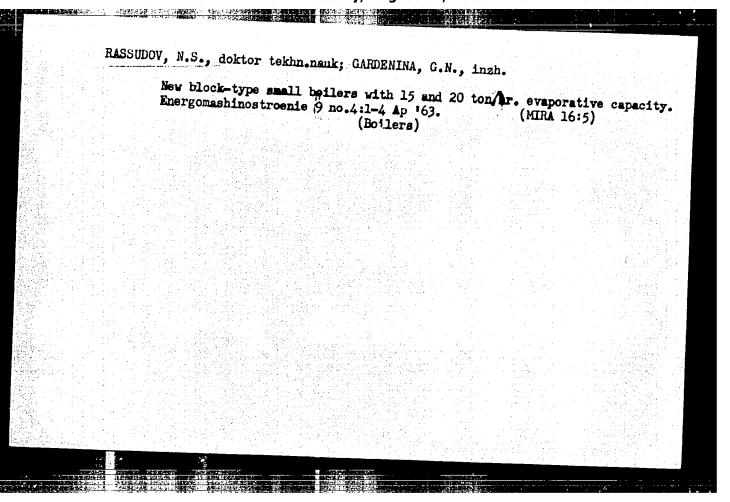
MECHAYEV, Yevgeniy Vasil'yevich, inzh.; KAHAYEVA, A.A., kand.tekhn.nauk, red.; BASSUDOY, N.S., doktor tekhn.nauk, nauchnyy red.; SIMONOVSKIY, N.Z., red.imd-va; SHCHETIHIMA, L.V., tekhn.red.

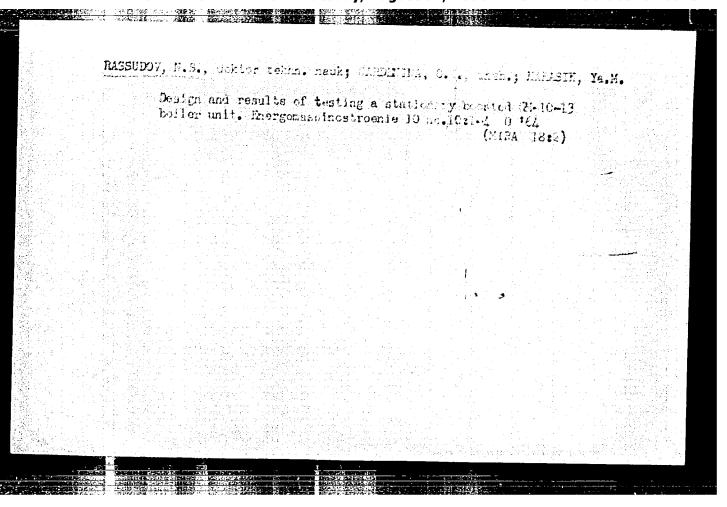
[Furnaces with pneumatic stekers] Topki a pnevmo-mekhanicheskini zabrasyvatoliami. Moskva, Gos.nauchn.-tekhn.izd-vo mash.lit-ry, 1959. 155 p. (Leningrad, TSentral'nyi nauchno-isaledovatel'skii kotloturbinnyi institut. [Trudy], vol.35) (MIRA 13:2)

(Boilers--Firing)









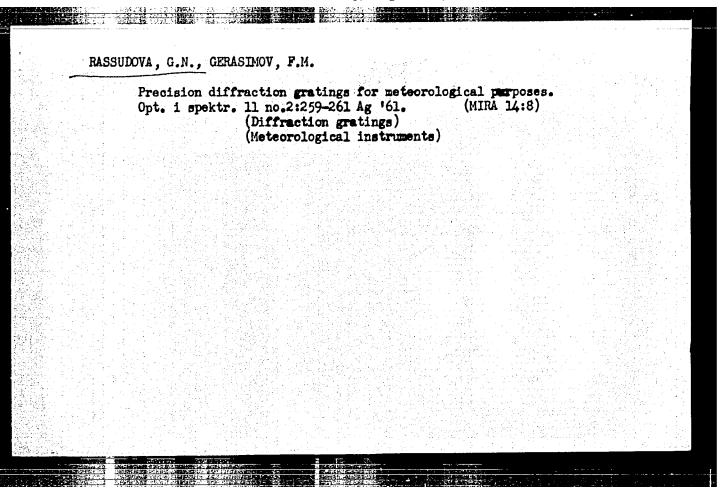
RAZUVAYEV, G.A.; STEPOVIK, L.P.; PERVEYEV, F. Ya.; DEMIDOVA, V.M.;
ALANIYA, V.P.; SOKOLOV, K.A.; KHARCHEMKO, V.G.; KRUFDIA, T.I.;
KLIMENKO, S.K.; RASSUDOVA, A.A.; GORELIK, M.V.

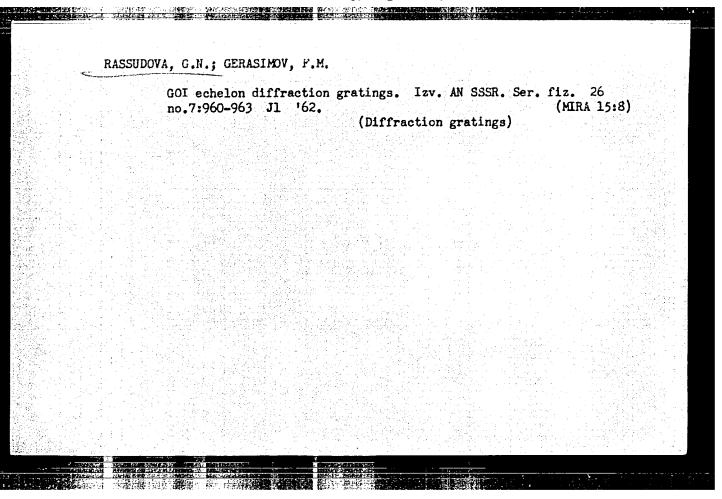
Letters to the editors. Zhur. org. khim. 1 no. 12t2244-2246
D '65

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom
gosudarstvennom universitete (for Razuvayev, Stepovik). 2. Leningradskiy gosudarstvennyy universitet (for Perveyev, Denidova).
3. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imemi Oubkina (for Alaniya, Sokolov). 4. Sarstovskiy
politekhnicheskiy institut (for Kharchenko, Krupina, Klimenko,
Rassudova).

VAKHURKIN, V.M.; GLADSHTEYN, L.I.; KAEMILOV, S.S.; KLIMOV, S.A.;
LEVITANSKIY, I.V.; MALIHIH; B.N.; NOSOV, A.K.; PAL'M,
YU.A.; POLYAK, V.S.; POFOV, G.D.; RASSUDOV, Y.N.;
KRASYUKOV, V.P.; SOKOLOV, A.G.; Prinimali uchastiye:
CORBATSKIY, Y.G.I.; MATVETEY, S.S.; STRELETSKIY, N.S.,
prof.; retsenzent; MUKHANOV, K.K., dots., retsenzent;
BOLOTINA, A.V., red.; MIKHEYEVA, A.A., tekhm. red.

[Light-weight supporting metal structures] Oblegchennye
nesushchie metallicheskie konstruktsii. Moskva, Gosstroiizdat, 1963. 282 p. (MIRA 17:2)





5/051/63/014/004/018/026 E039/E420

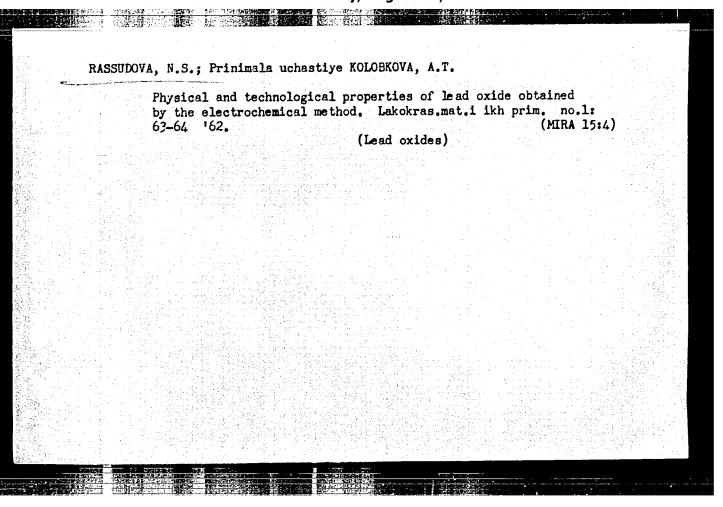
AUTHORS: Rassudova, G.N., Gerasimov, F.M.

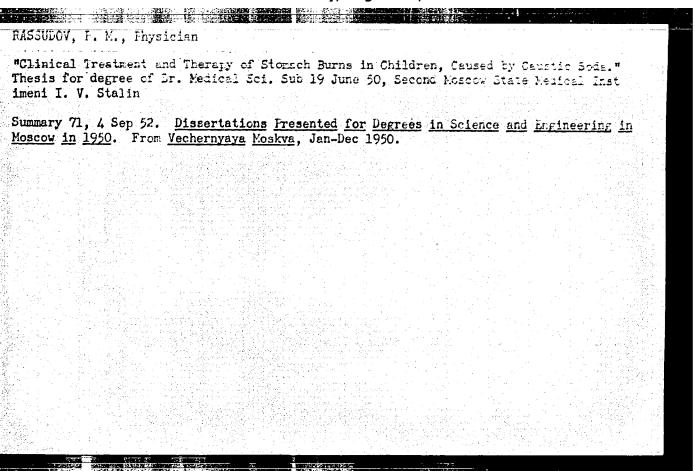
TITLE: The use of reflecting diffraction gratings in interference systems for measuring linear shifts. II

PERIODICAL: Optika i spektroskopiya, v.14, no.4, 1963, 559-563

TEXT: The results are described of an experimental investigation of three variants of interference systems using reflection and transmission gratings and also for two systems using reflection gratings, one with a half silvered mirror and the other a Wollaston prism as a beam divider. A comparison is made of the main properties of these systems. It is shown that they each cover a limited range and that in this respect they are complementary to each other. These limits are connected with differences in dependence of the band contrast on distance between the gratings, the angular size of the source and the width of the wavelength range used. The merit of the different systems within the limits of their applicability lies in the value of the bands rather than in the resulting light fluxes. The systems using reflecting gratings can only be effectively used for obtaining Card 1/2

very accurate measurements.	S/051/63/014/004/018/026 E039/E420 lue (from 0.1 to 10 µ) and require It is essential that gratings of
spectroscopic quality are used There are 3 figures and 1 tables SUBMITTED: June 7, 1962	for this type of measurement.
Card 2/2	





RASSUDOV, P.M.

Modification of certain instruments for broncho-esophagoscopy. Vest.otorinolar. 12 no.2:66-67 Mr-Ap '50. (CIML 19:2)

1. Of the Pediatric Branch of the LOR (Otorhinolaryngological)
Department (Director -- Honored Worker in Science Prof. B.S.
Preobrazhenskiy), Second Moscow Medical Institute imeni I.V.Stalin attached to LOR (Otorhinolaryngological) Division of Children's Hospital imeni N.F.Filatov (Head Physician -- Honored Physician RSFSR V.V.Kvitnitskaya).

RASSUDOV, S. M.

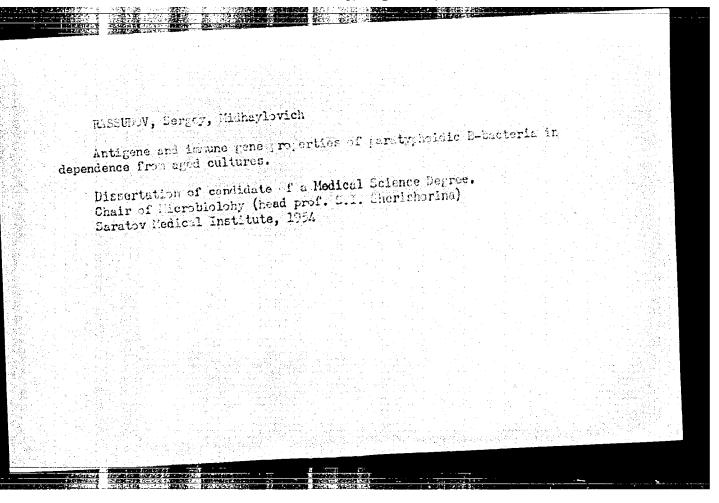
USSR/Medicine - Paratyphoid

Nov 53

"Experimental Reproduction of Septic Paratyphoid B Infection in White Mice," V. V. Akimovich, S. M. Rassudov, Chair of Microbiol, Saratov Med Inst

Zhur Mikro, Epid, i Immun, No 11, pp 46-51

In order to bring about a lethal septic paratyphoid B infection in white mice, which normally are not susceptible to this disease, huge doses of bacteria are required. These doses can be considerably reduced by using bacteria which are in the lag-phase (phase of delayed multiplication) or by administering at the same time agents which induce inflammation in the animals.



RASSUDOV

VASILOV, S.I.; RASSUDOV, S.M.; RADIONOVA, L.N.

Quantitative determination of intensity of luminescence in suspensions of various bacteria.using objective method. Report No.2. Zhur. mikrobiol.epid. i immun. 29 no.4:11-14 Ap 158. (MIRA 11:4)

1. Is kafedr fiziki i mikrobiologii Chitinskogo meditsinskogo instituta.

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NASSUDO APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001

124-57-1-869

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 116 (USSR)

AUTHOR: Rassudov, V.M.

The Stressed and Deformed State of a Slanted Orthotropous TITLE:

Shell Reinforced by Stiffening Ribs (Napryazhennoye i deformirovannoye sostoyaniye pologoy ortotropnoy obolochki,

podkreplennoy rebrami zhestkosti)

PERIODICAL: Nauch. yezhegodnik za 1954 g. Saratovsk. un-t, Saratov, 1955, pp 688-689

Examination of the flexure of a thin slanting orthotropous ABSTRACT: shell, having a rectangular planform, reinforced by stiffening ribs. The shell is bent by a normal pressure, distributed over the surface of the shell. Differential equations are adduced for the deflection of the shell and the stress function; the boundary conditions for the integration of these equations are also shown.

- 1. Shells--Stresses--Mathematical analysis Ye, F. Burmistrov
- 3. Shells--Theory 2. Shells--Deflection--Mathematical analysis
- 4. Differential equations -- Applications Card 1/1

SOV/124-57-4-4609

Deformation of Shallow Shells Reinforced With Stiffener Ribs

$$\nabla^2 = \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} \nabla_k^2 = \frac{\partial}{R_2 \partial x^2} + \frac{\partial}{R_2 \partial y^2}$$

where E is Young's modulus, D the cylindrical st finess, v the Poisson ratio, h the thickness of the shell, R1 and R2 the principal radii of curvature, q1 the loading distributed over the various regions of the shell, and Φ_i the function sought in terms of which all desired values are expressed. The solution of equation (I) is given for a shallow shell, two edges of which are freely supported while the other two may be fixed in any arbitrary manner. The solution is found r the form of the (2) series

 $\Phi_i = \sum_{b=1}^{\Sigma} \Phi_{ik}(x) \sin \frac{k\pi}{b} y$

The author then examines the deformation of a shallow cylindrical arched roof reinforced by n rectilinear rib stiffeners. He then integrates the differential equations for a shallow cylindrical arched roof reinforced by a single rectilinear rib stiffener and subjected to a normal, uniformly distributed, pressure force acting in Card 2/3

SOV/124-57-4-4609

Deformation of Shallow Shells Reinforced With Stiffener Ribs

conjunction with specified conditions on the edges of the shell. The case of a shell with all edges pin-hinged is studied in detail. Numerical values of deflections, normal forces, and bending moments are given for certain values of the ratio g/h, where g is the height of the shell at its mid point. The application of the method described to the problem of the deformation of a shallow cylindrical arched roof supported on all four sides and reinforced by straight stiffener ribs leads to the solution of a nonhomogeneous, linear algebraic system of four equations with four unknowns,

Ye. F. Burmistrov

Card 3/3

THOSUNG, VIM

24. Deformation of Shallow Shalls Reinforced by Rigid Ribs

"Deformation of Shallow Shells Reinforced by Rigid Ribs," by V. M. Rassudov, Uch. zap. Saratovsk. un-t, 1956, 52, pp 51-91, (from Referativnyy Zhurnal -- Mekhanika, No 4, Apr 57, Abstract No 4609, by E. F. Burmistrov)

"This article contains an investigation of shallow isotropic shells including those of zero Gauss curvature, both reinforced by rigid ribs.

"The variation method is used to obtain the basic differential equations and their relationships with the theory of shallow shells of given forms and with rigid ribs.

The derivation is given for the basic differential equations and the boundary conditions of the rigid ribs during conditions of small deformations. The obtained system of equations boils down in the beginning to a system of two equations for the functions of stresses and the functions of bending and afterward to one equation of the eighth order in the form:

$$(\nabla^2 \nabla^2 \nabla^2 \nabla^2 \nabla^2 + \frac{\mathbf{Eh}}{\mathbf{D}} \nabla_k^2 \nabla_k^2) \Phi_i = \underline{\mathbf{q}} \left(2 - \frac{\mathbf{Eh}^2}{\mathbf{D}} \right)$$

$$\nabla^2 = \underbrace{2^2}_{\mathbf{y}^2} - \underbrace{2^2}_{\mathbf{y}^2} \nabla_k^2 = \underbrace{2^2}_{\mathbf{R}_2 \mathbf{x}^2} + \underbrace{2^2}_{\mathbf{R}_1 \mathbf{y}^2}$$
where E is Young's Mcdulus, D is the cylindrical

where E is Young's Mcdulus, D is the cylindrical rigidity, v is Poisson's coefficient, h is the thickness of the shell, R₁ and R₂ are the main radial curvatures, q₁ is the load distributed on sections of the shell, and 1 is the unknown function through which all the unknown values are expressed.

"The solution is given for equation (1) for a shallow shell, two sides of which are resting freely and the others supported in any arbitrary way. The solution is derived in the series form:

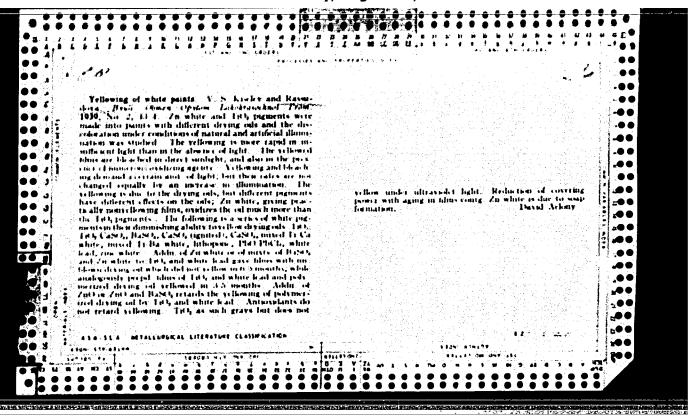
$$\dot{\Phi}_{i} = \sum_{b} \dot{\Phi}_{ik} (x) \sin^{k} \frac{\pi}{b} y. \tag{2}$$

"Afterward, the deformations of a shallow cylindrical arch reinforced by n rectilinear rigid ribs are described. Later, the integrations of the differential equations for a shallow cylindrical shell with formly distributed pressure, under certain conditions, on the sides of the shell. The case is studied in detail where all sides of the shell bending, the normal stresses, and the bending moments for certain ratios of g/h, where g is the rise of the shell in the center.

"A method is described for the solution of the problem of the deforinforced by rectilinear ribs, which reduces the calculations to the solution of a heterogenous linear algebraic system of four equations with

546, 1429

APPRGVED FOR RELEAST. Tuesday August 61, 20



SOV/51-6-6-29/34

24(4), 24(7)

Resenders, G.N. and Gerasimer, F.M.

AUTHORS:

Diffraction Gratings for Separation of Spectral Orders (Difraktsickmy) TITLE! reshetki dlya razdeleniya poryadkov spektra)

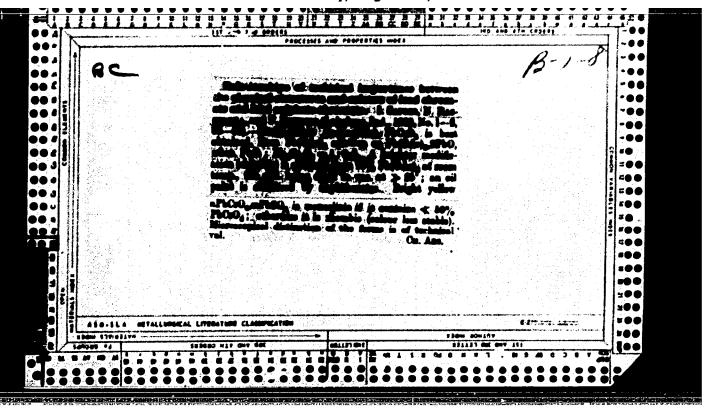
PERIOUICAL: Optika i spektroskoplya, 1959, Vol 6, Nr 6, pp 826-927 (USSR)

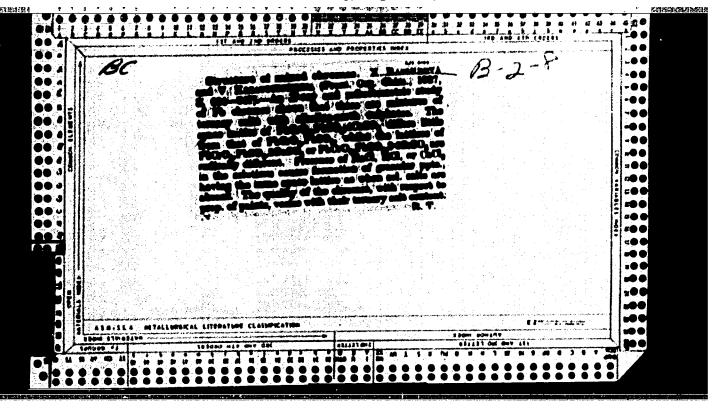
ABSTRACT:

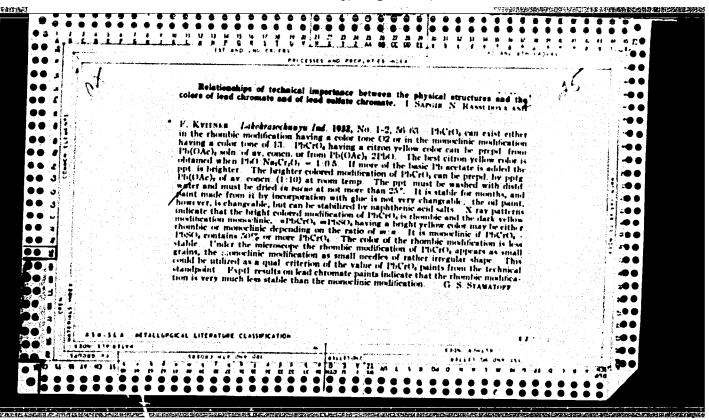
The authors prepared special reflection gratings which could be used to separate spectra of various exters produced by other diffraction gratings with any number of lines per mm. These reflection gratings (separator-gratings) had 50 or 100 lines/xm. Their line profile was step-like with working surfaces inclined at 10 to the original surface in order to concentrate light in the first order. The separator gratings were excessed with other gratings (used at diffraction angles of 40-500) and tested in an autocollimating spectrograph with f = 3 m. A parallel besm reached a separator-grating (which was horiscutal) making an angle of 20-45° with the plane parallel to the lines on this grating. After diffraction from the main grating (whose lines were vertical) the beam reached the separator gratings for the second time and then passed on to an objective. Under these conditions multiple diffraction of beams was swelded but weak additional lines appeared due to neighbouring orders of the segarater-grating. Spectral regions of the order of 1/2 octave both in the visible and ultraviolet regions

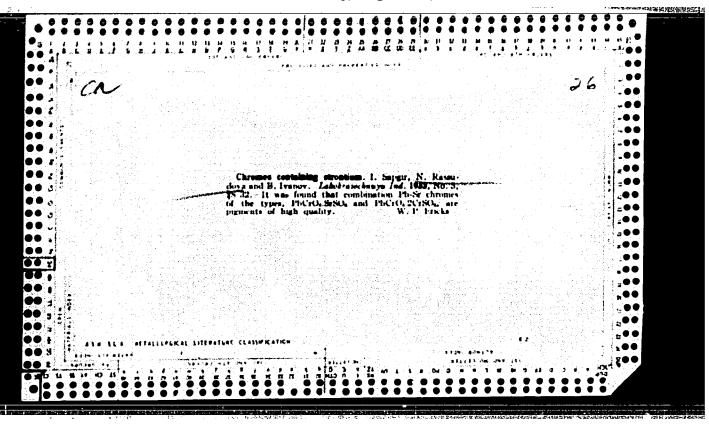
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344.





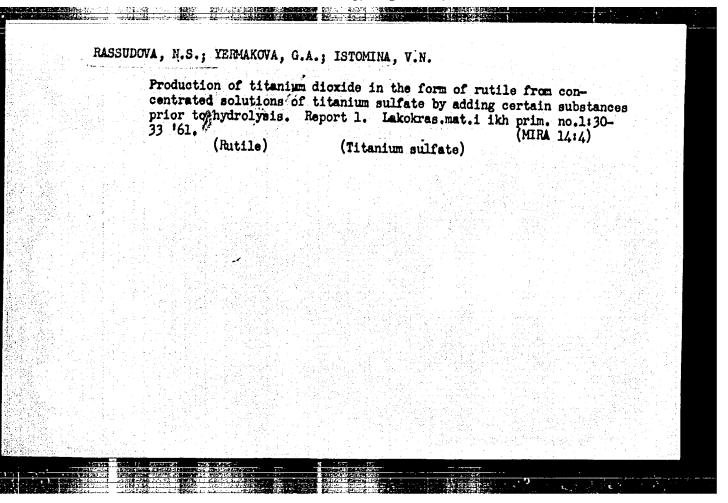




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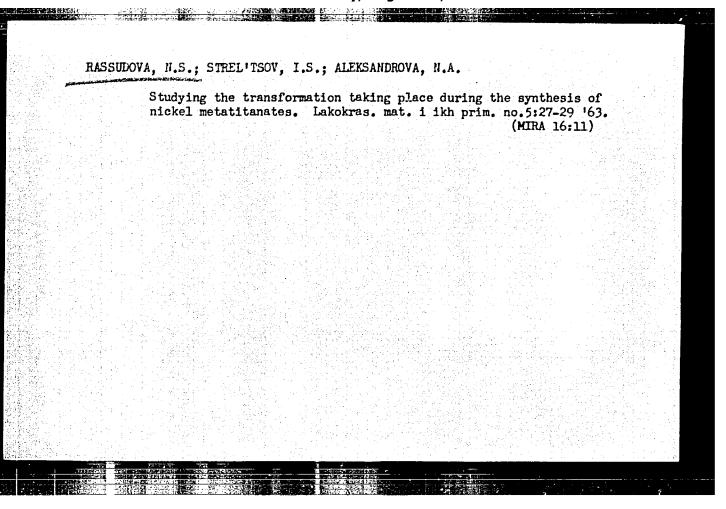
RASSUDOVA, N.S.; TEHEKHOVA, A.I.; LILO, G.N.; ALEKSANDROVA, N.A., STRELITSOV, I.S.; RUBINSHTEYN, B.L. Synthesis and investigation of the characteristics of nickel titanates and mixed nickel-titanium pigments. Lakokras.mat. i iki prim. no.2: 25-29 '63. (MIRA 16:4) (Titanium) (Nickel) (Pigments)

7/011/61/018/011/002/008 E112/8553 AUTHORS: Rassudova N. S. Yermakova G. A. and Istomina A. A. TITLE Recovery of titanium dioxide (rutile) from concentrated solutions of titanium sulphate by the addition of various additives prior to hydrolysis PERIODICAL: Chemie a chemická technologie: Přehled technické a hospodářské literatury, v 18. no 11. 1901 - 515 abstract Chb1-7085 (Cakokrasochnyve materialy, no) 1961, 30-33) fitanium dioxide (rutile) was prepared from concentrated solutions of titanium sulphate in the presence of additives such as zinc chloride formic acid, titanium tetrachloride etc. Additions ranged from 1 to 32. The resulting titanium dioxide consisted of 49% rutile. 1 figure, 6 tables, 9 references Abstractor's Noie Complete translation Card 1/1.



YUSIM, Veniamin Il'ich; RAKHMAN, Aron Davydovich; MODYLEVSKIY,
David Naumovich; RASSUDOV, N.S., doktor tekhn. nsuk,
retsenzent; SINEL'NIKOVA, L.N., red.; LARIONOV, G.Ye.,
tekhn. red.

[Steam-turbine power plants mounted on railroad cars]
Paroturbinnye energopoezda. Moskva, Gosenergolzdat.
Pts.2-3.[Steam-turbine power plants with 1000-5000 kw.
ratings mounted on railroad cars] Paroturbinnye energopoezda moshchnost'iu 1000-5000 kvt. 1963. 174 p.
(MIRA 17:3)



(Chemistry, Technical) (Ink'ianov, P.M.)

"History of the chemical trades and the chemical industry in Rassudova, Russia" by P.N. Ink'ianov. Reviewed by I.N. Sapeir, N.S. Rassudova, Enim. prom. no.8:500 D'S?.

.S.W .AVOCUESAR .W.I .ELOTAR

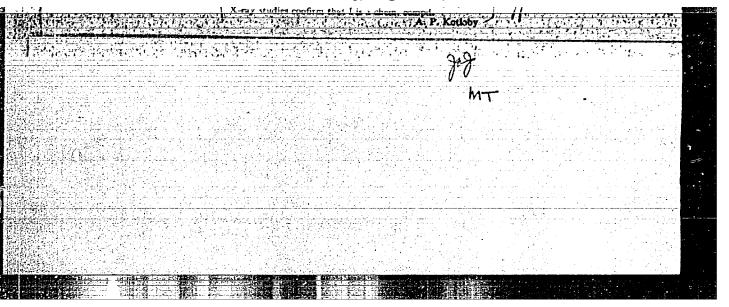
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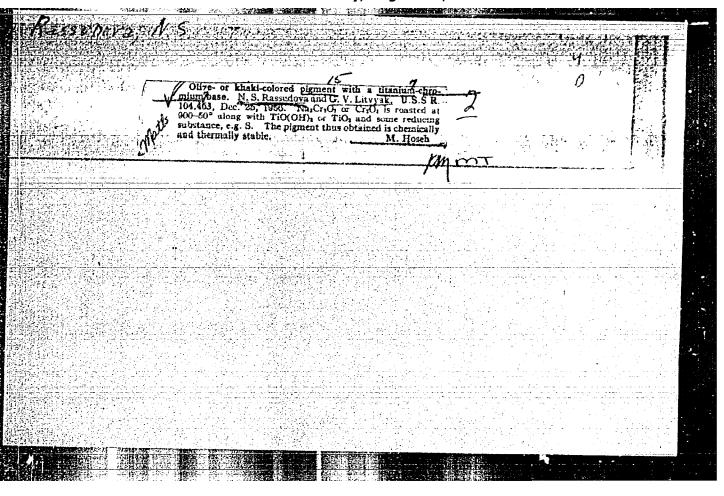
APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-KDP86-00513R001

Chrumfum titenate. N. S. Rassudova and G. A. Litvyak.

Trudy Morees. Edin. 122863. Inc. 185. D. T. Mendelecto
1956. No. 22 227-31 Const. Proceedings of the Const. Inc. 185. D. T. Mendelecto





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KARETNIKOV, C.S.; KUDRYAVISEV, N.T.; GOLOVCHANSKAYA, R.G.; Prinimala uchastiye RASSUDOVA, N.S., dotsent

> Study of alkaline solutions of sodium metatitamate in the presence of glycerol. Zhur. fiz. khim. 39 no.9:2298-2300 S 165. (MIRA 18:10)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyava.

RELEASE: Tugsday, August 01, 2000 CIA-RDP86-00513R0013

AUTHORS:

Rassudova, N. S.

64-8-17/19

TITLE:

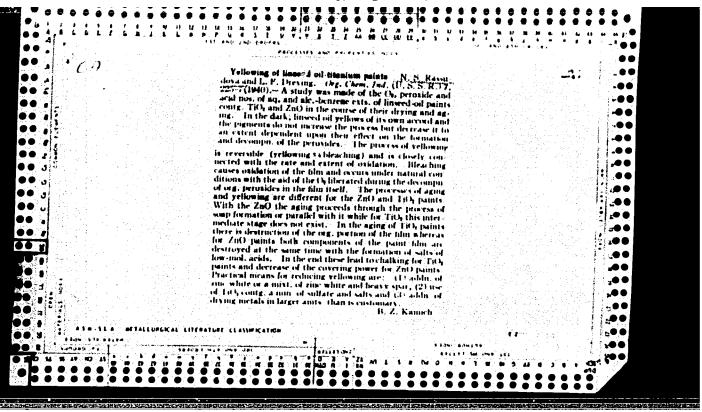
P. M. Luk'yanov. History of the Chemical Profession and the Chemical Industry in Russia (P. M. Luk'yanov. Istoriya khimicheskikh promyslov i khimicheskoy promyshlennosti Rossii).

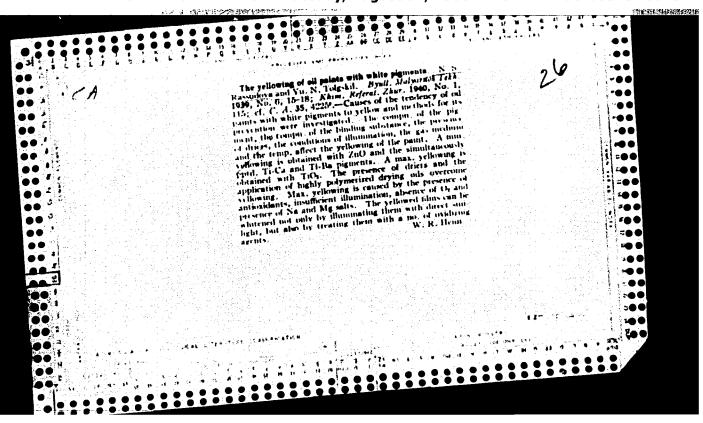
PERIODICAL: Khimicheskaya Promyshlennost', 1957, Nr 8, pp. 52-52 (USSR)

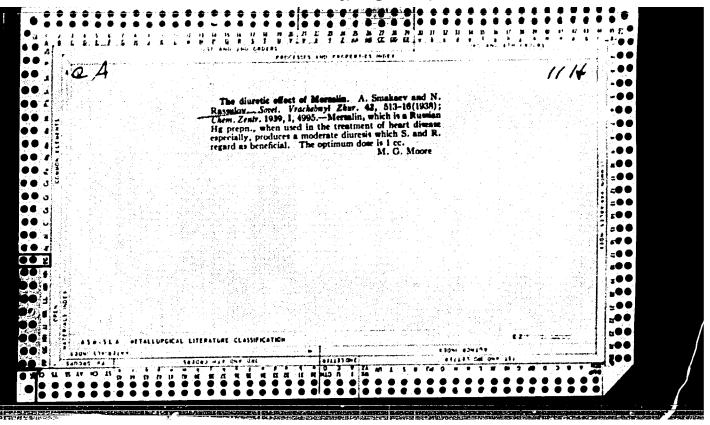
ABSTRACT:

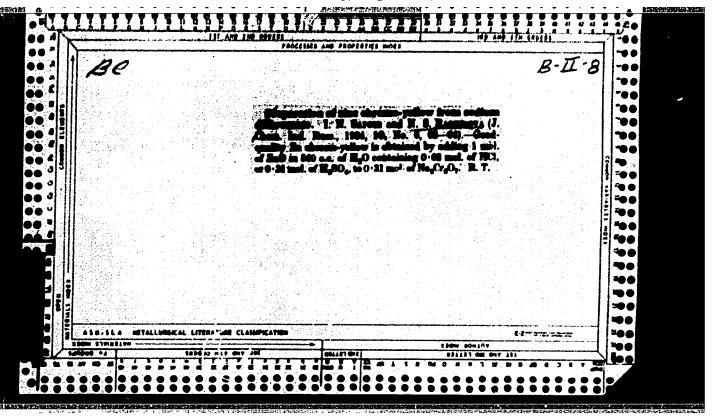
This is volume number 4. Under the editorship of S. I. Vol'fkovich, member of the Academy. Publishing house of the Academy of Science USSR, 1955. 622 pages. The book is here discussed in short. This volume is entirely given to the history of the production of dyes in Russia from ancient times up to the begin of the 20th century. A great number of original documents, manuscripts, etc. are given. A great part deals with the investigation of fresco-paintings, miniatures, and icons. The author procured, often with great difficulties, small quantities of these old dyes and investigated them by means of the spectral analysis. The results are comprised in a table. The fresco-paintings, miniatures, and icons are contained in the book in good reproduction. The book is well-written, and contains a detailed name-, subject-,

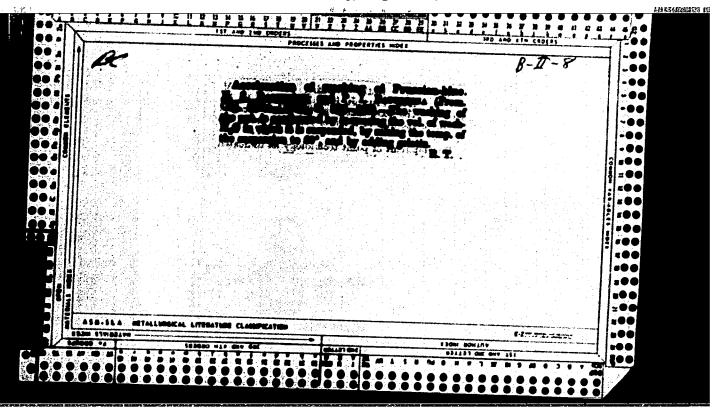
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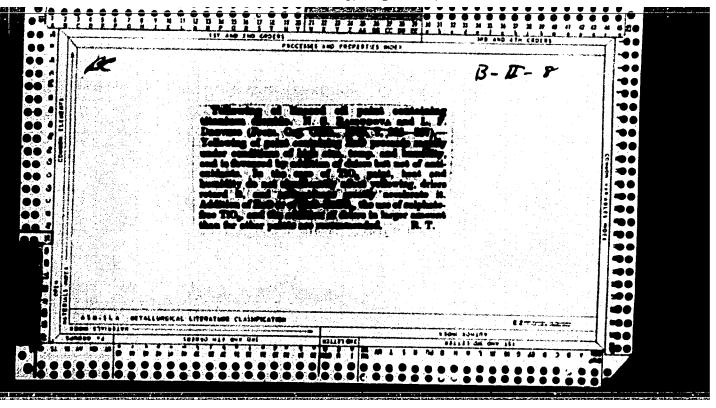




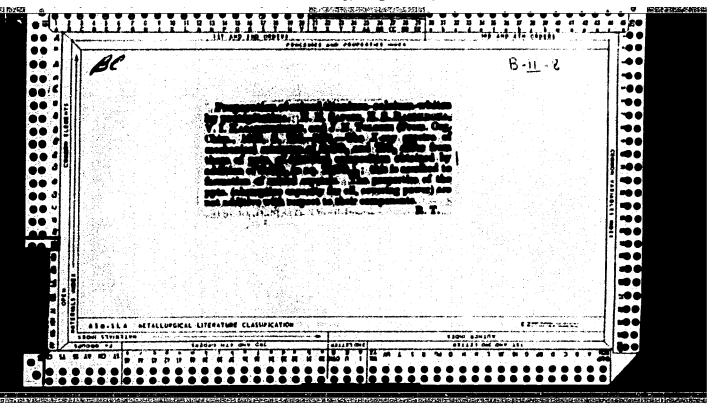


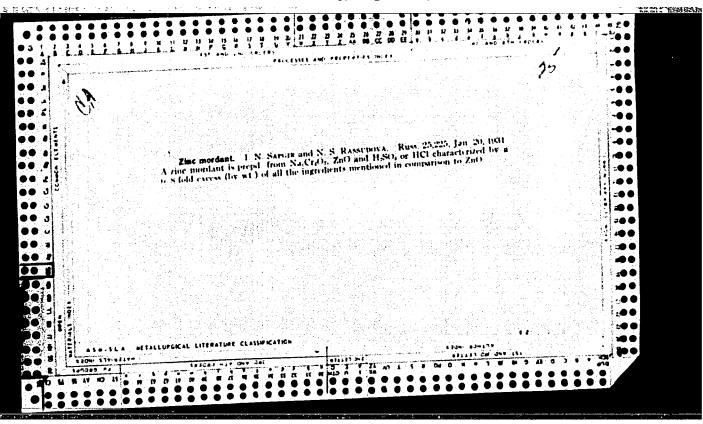


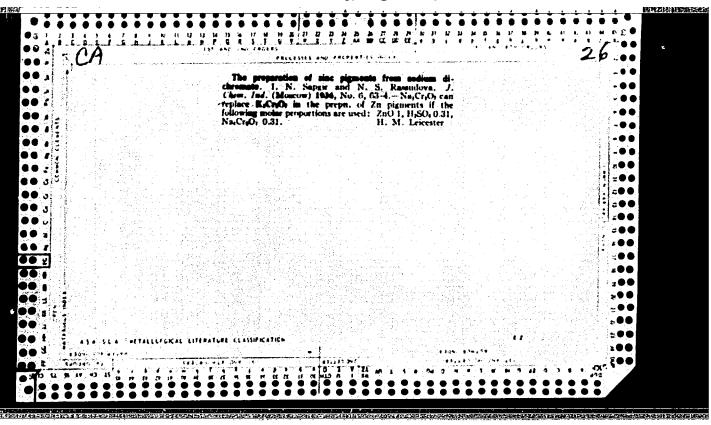


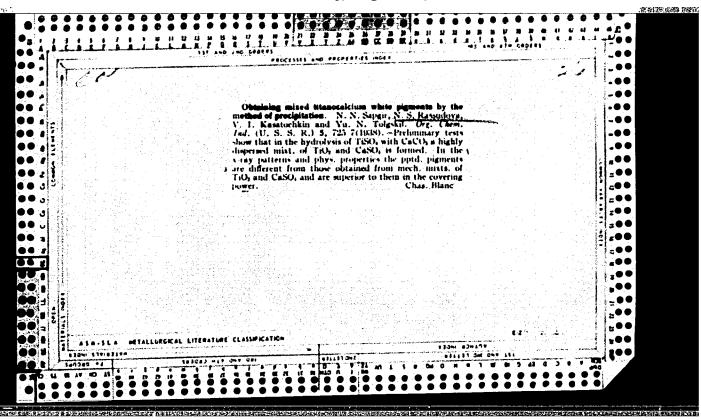


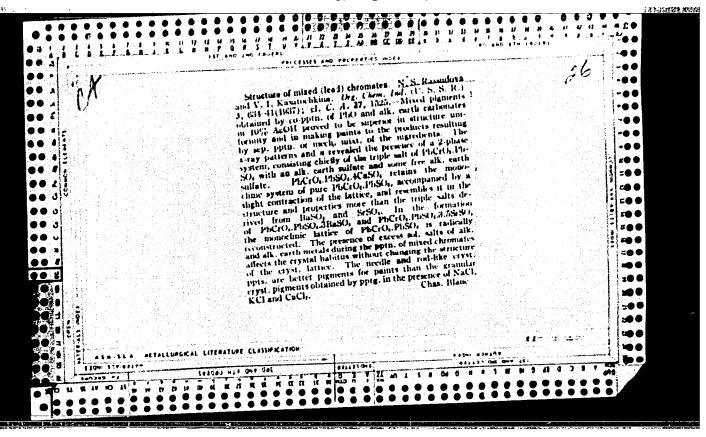
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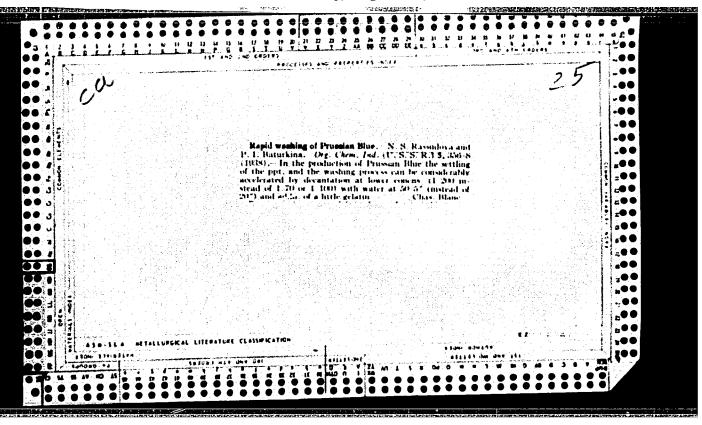


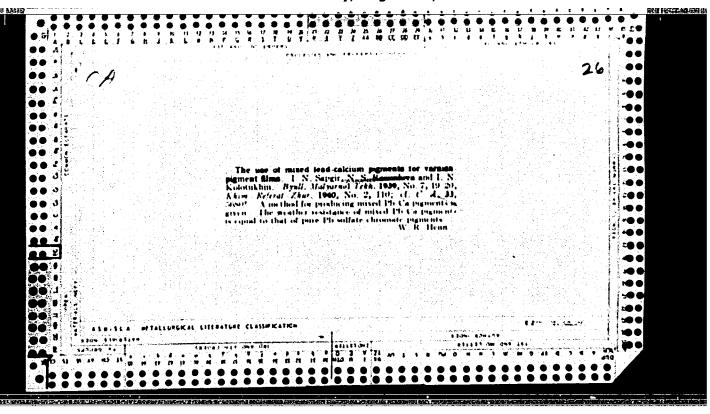


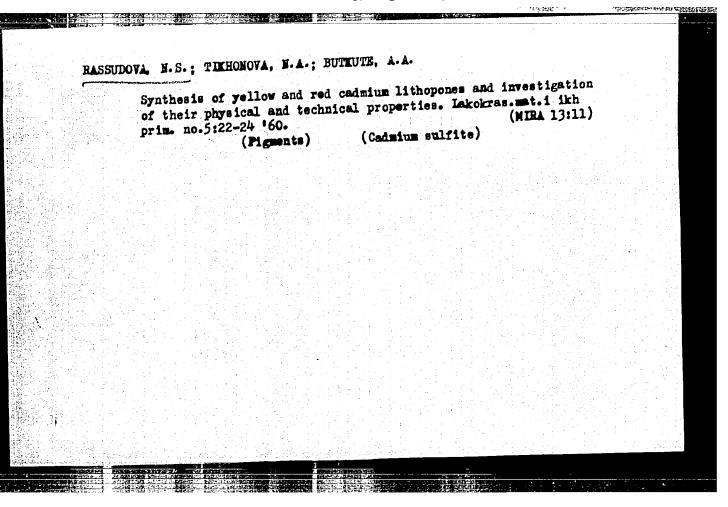


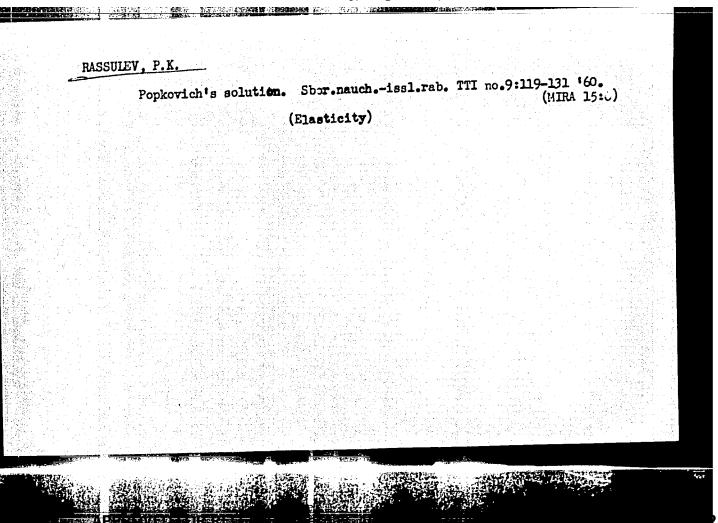












SOV/24-59-4-6/33

Moskvitin, A.I. and Rassulov, A.M. (Moscow) AUTHORS:

Concerning Heat Transfer in the Hydrogen Cooling System TITLE:

of Turbo-alternators

Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh PERIODICAL:

nauk, Energetika i avtomatika, 1959, Nr 4, pp 43 - 48 (USSR)

ABSTRACT:

In modern turbo-alternators gas coolers are used to cool the circulating hydrogen; these coolers are very big and can have a considerable influence on the design and overall dimensions of the alternators. It is important to be able to make these gas coolers small. However, heat transfer and the aerodynamic resistance of bundles of tubes with wire ribbing has been little studied and published data relates only to tests in air. In the summer of 1958, the Energeticheskiy institut AN SSSR (Power Institute of the Ac.Sc.USSR) together with the "Elektrosila" Works made an an experimental study at various hydrogen pressures of heat transfer and resistance to flow of gas coolers with wire ribbing as used in turbo-alternators. As the tube bundles were of full size and the cooling medium was the same as

Card1/6

SOV/24-59-4-6/33 Concerning Heat Transfer in the Hydrogen Cooling System of Turbo-alternators

in operation it was possible to determine the heat-transfer coefficient and resistance at various hydrogen pressures and also to obtain generalised criterial relationships. The tests were made in special equipment designed for testing parts of large machines in an atmosphere of hydrogen at pressures of 1 to 10 atm; it is a cylindrical chamber 5 300 mm long and 1 050 mm diameter. The chamber contains a wind tunnel with fans forming a closed circuit in which the gas can be circulated in amounts up to 1.5 m3/sec. Appropriate control measurement devices were provided. The tests were made at various hydrogen pressures from 1.2 to 7.5 atm and for a wide range of gas speeds from 2 to 10 m/sec. The gas temperature at inlet to the coolers reached 50 - 60 °C and the cooling-water temperature was around 20 °C. During the tests the thermal loading of the gas cooler corresponded to practical operating conditions and was 800 - 1 200 kcal/h per metre run of tube. Hydrogen

of 97.5 - 98.5% purity was used as in practical machines.

Card 2/6



SOV/24-59-4-6/33 Concerning Heat Transfer in the Hydrogen Cooling System of Turbo-alternators

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Heat transfer from a ribbed gas cooler is given by Formula (1) and the efficiency of the ribbing is given by Formula (2). Using these formulae, by experimental determinations of the amount of heat transarred and the appropriate temperature drop it is easy to determine the heat-transfer coefficients for the ribbed surface. On going over from air to hydrogen cooling at a pressure of 4 atm, the effectiveness of using the gas coole is reduced by about 20% and, therefore, with hydrogen cooling at 4 atm, it is advisable to use wire ribbing with a larger wire diameter and smaller loop height or to use solid fins. The criterial heat-transfer relationship of the gas cooler plotted in Figure 1 and given by expression (4) was plotted from experimental data for hydrogen pressures from 1.2 to 7.5 atm. The aerodynamic resistance of the tube bundle is then considered. The criterial equation for the resistance is of the form of expression (7). On working out the experimental data, it is found that the resistance

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coefficient drops as the hydrogen pressure is increased, for instance, on raising the hydrogen pressure from 1.2 to 4.0 atm, the resistance coefficient drops by 15-20% for a rate of flow of 3.0 m/sec. Figure 2 shows a graph of the criterial relationship between the resistance coefficient obtained on tests for several hydrogen pressures air increase in and for air. It is found that whilst the Reynolds number reduces the resistance coefficient only slightly, the reduction is greater for hydrogen and increases as the pressure is dropped. On the basis of the test results, Eq (9) is recommended to determine the resistance coefficient of the wire ribbed gas cooler considered, at a pressure of 4 atm. The tests also showed that on going over from air to hydrogen cooling at a pressure of 4 atm, the resistance of the gas cooler is more than nalved. The experimental separation of the various components of the thermal resistance of the gas cooler is then considered. Since the tests were made over a wide range of

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speeds and gas pressures and of water speeds in the tubes, it was possible to resolve the thermal resistance of the gas cooler into its component parts and this is, of course, a major object of investigations of heat-exchange equipment. Of course, the resistances of the different parts are interrelated so that the separation is necessarily somewhat arbitrary.

Figure 3 gives graphs of the total specific thermal vesistance of the gas cooler as a function of the reciprocal of the water speed for tests in hydrogen and in air and for various gas speeds and pressures. The relationship is linear and the method of using these results to resolve the heat losses into various components is explained. Block diagrams of the various components of resistance as percentage of the total resistance are plotted in Figure 4 and t will be seen that for air at low speeds (Figure 4a - lefthand column) the main resistance (83%) is due to heat transfer from the gas to the ribbing. For hydrogen at high

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Concerning Heat Transfer in the Hydrogen Cooling System of Turbo-alternators

speeds and pressures (pv = 33, right-hand column of Figure 4a) this resistance drops to 25% but the relative proportion due to the resistance of the metal increases considerably from 8% in air to 50% in hydrogen. Consequently, in this case, it is best to make the ribbing narrower but of thicker wire. Formulae (10)-(12) may be used for approximate recalculation of the test results for the given gas cooler from air to hydrogen and thus to obtain a generalised characteristic for the gas cooler. Such a generalised characteristic is given in Figure 5 for the thermal resistance relating to a hydrogen pressure of 4 atm and gas speed of 5 m/sec constructed from the test results given in Figure 3 for hydrogen and air. There are 5 figures and 5 Soviet references.

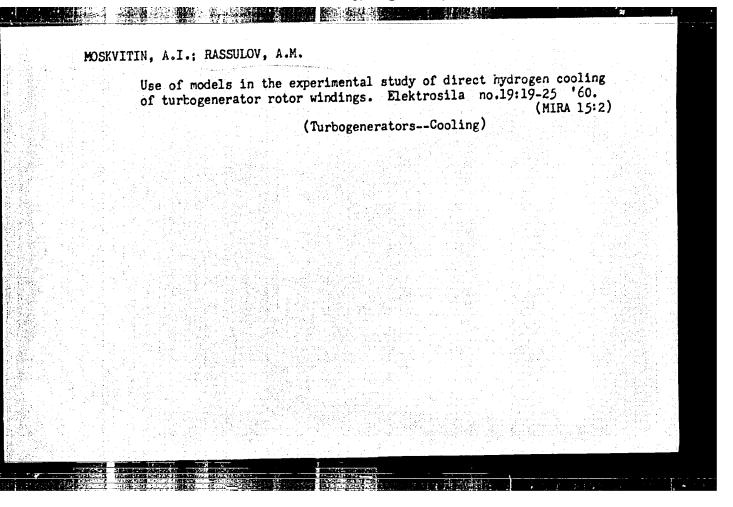
SUBMITTED: March 10, 1959

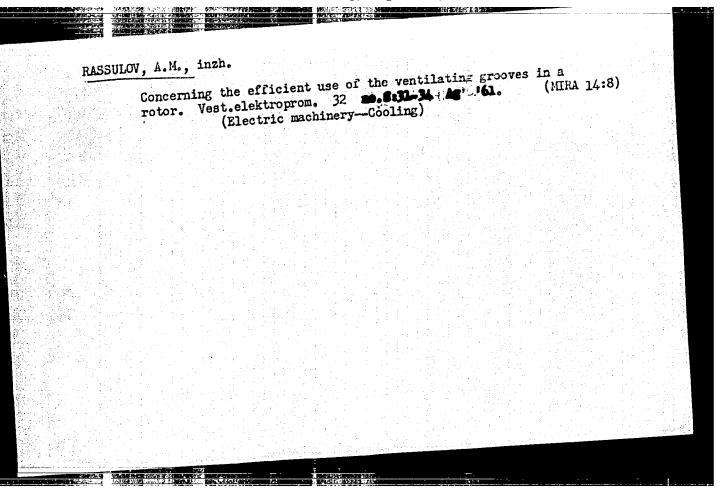
Card 6/6

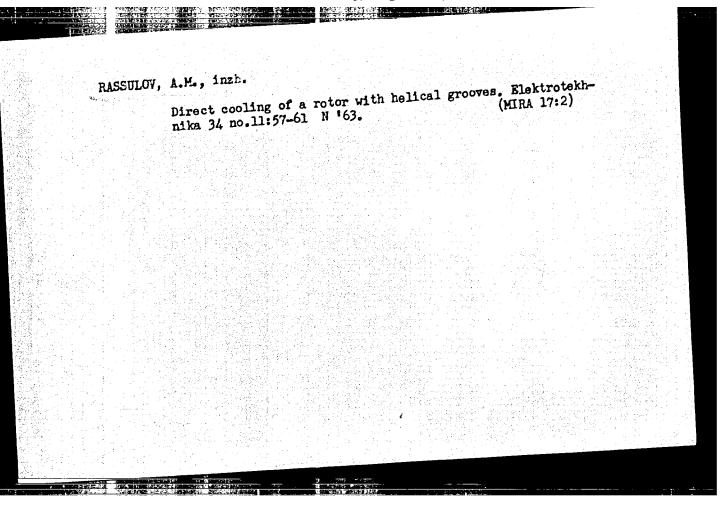
RASSULOV, A.M. (Moskva)

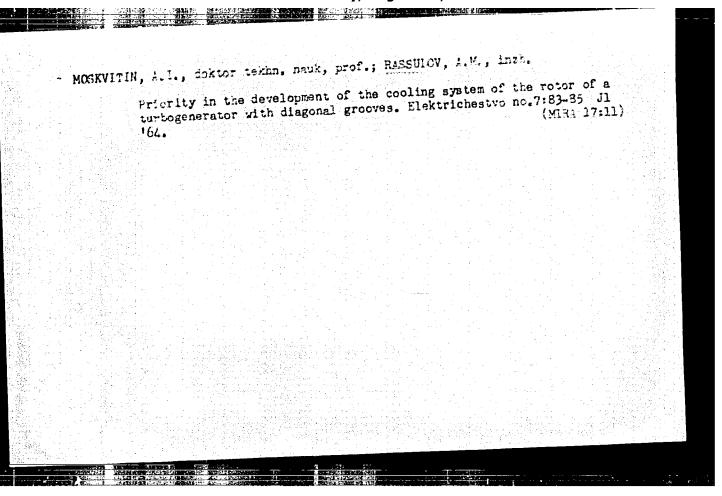
Selection of gas coolers for turbogenerators. Izv. AN SSSR. Otd. tekh.nauk.Energ. i avtom. no.4:148-150 J1-Ag '60. (MIRA 13:8)

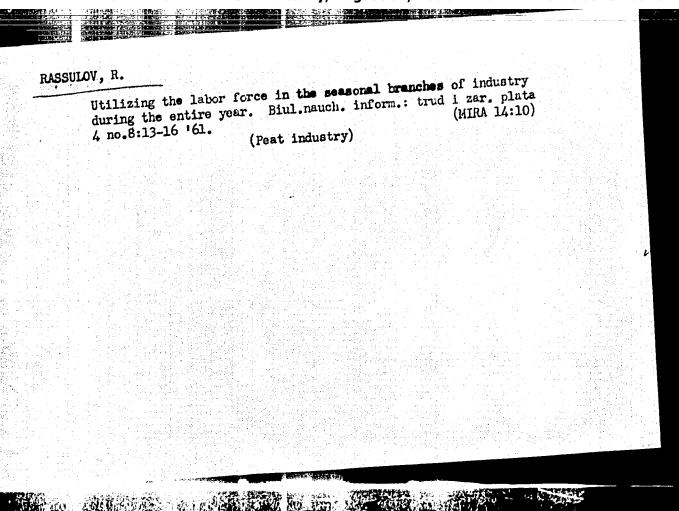
1. Energeticheskiy institut Akademii nauk SSSR.
(Turbogenerators—Equipment and supplies)





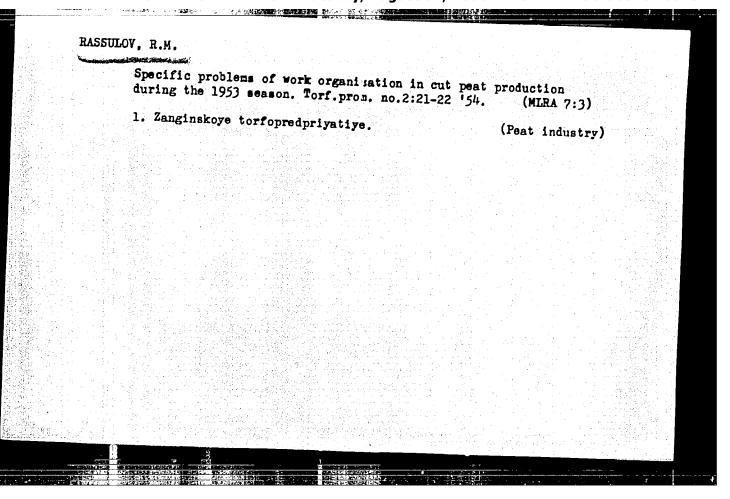






Reduce Cost of Peat Recovery in the USSR."	Dissertation defended for the degree of Candidate of Economic Sciences at the Institute of Economics "Ways to Reduce Cost of Peat Recovery in the USSR." Vestnik Akad. Nauk, No. 4, 1963, pp li9-145	duce Cost of Peat Recovery in the UNSR."
어 보는 이 제공들에서 제공을 잃었는 말이었다고 된다면 나무를 잃었다면 그리고 있다. 그리고 그리고 그는 그리고 있다면 말했다.	있다. 그리는 그에 하는 그 있었을면 회사를 받았다는 일하는 하는 모든 모든 사람들이 하는 그리고 있는 그리고 그는 그 그리고 있다.	사는 회문입문에 되었다. 얼마를 받는 하는 사람은 나는 사람들은 가장 그리고 있다. 그리고 그는 그리고 있다면 되었다.
어 보는 이 제공들에서 제공을 잃었는데 하셨다면 된 사람들은 대통령 싫어 하는 이 이 이 아니는 그 아이나 나는 그는 그 이번 없어야다.	있다. 그리는 그에 하는 그 있었을면 회사를 받았다는 일하는 하는 모든 모든 사람들이 하는 그리고 있는 그리고 그는 그 그리고 있다.	사는 회문입문에 되었던 말았죠? 등을 하는 사람들은 고두를 모양하는 그리고 있다. 그리고 그리고 그는 그 그리고 있하다.
Akad. Nauk, No. 4, 1963, pp 119-145	Vestnik Akad. Nauk, No. 4, 1963, pp 119-145	d. Nauk, No. 4, 1963, pp 119-145
. 그리고 있는 100 등로 시를 모든 것도 하는 것은 경우가 되었다. 그런 경우가 되지 않는데 하는 것으로 있는데 그런 것으로 보는데 되었다. 	도함 보고 있다. 그리스 선생님 보고 있다. 프로그리스 마음에 발표하는 아니라 현재에 되어 하는데 아니라 되었다. 이 그리고 생각하는데 그렇게 하는데 그런 그리고 있는데 보고 있는데 보고 있는데 그렇게 되었다. 그리고 있는데 그리고 있다. 그렇게 하는데 그런데 그리고 있는데 보고 있는데 그리고	이사를 보는 경험 시민들은 사람이 가장 마음이 들어야 하는 것이 하면 하는 것이 되었다. 그는 그 것이 되었다.
가 되고 있는 것이 많은 것들이 되었다. 그렇게 되는 것들이 되는 것을 하는 것으로 되는 것을 하는 것이 되었다. 그 사이를 보고 있는 것을 하는 것을 보고 있는 것을 하는 것을 하는 것을 보고 있는 것을 보고 있는 것을 되었다. 것을 보고 있는 것을 보고 있다.	도를 보면 하는데 되었다. 생각 경우를 받았다. 이렇게 되는 것이 있는 것은 사람들이 되는데 모르고 있는데 그 사람들이 되었다. 그는 사람들이 되는데 되었다. 이렇게 하는데 사람들이 되는데 사람들이 되었다. 그 사람들이 되었다.	이 많은 사용한 경우를 통해보고 이 기를 하는 수는 물리가 있는 것들이 되는 것도 하는 것이다. 그는 그리고 있는 것이다. 그 것을 수 없었다. 그리고 있다는 것을 하는 것을 하는 것이 되는 것이 살아 있다는 것이다. 그를 보고 있다. 그는 목이 있다는 것으로 살아보고 있다
그는 이번, 말하고 하면 하라는 한국의 중에도 이번, 그 사람들이 그 사람들이 하는 사람들이 모든 하는 하는 사람들이 살아 되었다. 그 그 나는	그녀는 그는 그는 그리는 장마리가 되어가는 어린다면 하지만 되었다. 그들이 불통하다는 사람들은 이번 바람은 사람들이 가지 않아 있다.	그는 그렇게 보고 여자는 본래, 이동 하다고 그 가게 들었다. 전에 불편했다는 다른 그는 그리고 하는 이는 이번 바다는 그는 그리고 하는데 되었다. 그는 그리고 그
그는데 그 회의 최근 한 경기 통해 적으로 된 하실한다. 그런 이렇는 사람이 보고 본지 하셨다고 되지 않아야 하게 되고 있는데 된다. 그 하다 되었다.	그는 어느, 보고 보는 전에 가장 하셨다. 전 중에 집에 되는 그런데 집안되고 하셨다면서 보는 전에 되면 그런데 다니다. 그리고 나가 되고 있는데 이번 모든	이 그 싫다 처음 한 경기 집에 주는 그 전 이탈하고 그렇다면도 말하다고 하면 하지만 되다. 사람들의 얼마라고 되고 말하는 하다 하는다.
그리는 이 아이들 학교들의 그리고 이 아래에 가지 않고 있다. 하는데 아이 얼굴이 아들이야 하셨다면 하는데 아이들 아이들 때문에 나를 하는데 하는데 그리고 있다.	: [Hand For Mark Control of Angles	[[[인발: 그리고 : [[한 호 : [] [] [] [] [] [] [] [] [] [
그는데 그렇게 하는 한 전문 하면요. 그렇게 말하다고 하게 하는 것이라고 말하고 않는데 모르겠다. 이 그리다는	그 아들은 그들은 이 그를 통해는 어떻게 하려면, 그 그게 빨리고 아이지는 것이라를 하고 하고 있다면 모든 것이라면 살 모든 것이다.	이 그렇게 하는 이 점점 하면 됐다. 그렇게 함께서 하면 하는 다른 이 점점 하고 있는데 하는데 함께 걸린 사람이다.

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	Advantages of peat consumption in different economic regions of the U.S.S.R. Torf.prom. 38 no.1:16-20 '61. (MIRA 14:2)													
	1. Institut ekonomiki AN SSSR.													
	(Peat)													
	도 마이지 않는 생각 경에 대한 학생들은 경우 전에 가장 하는 것이 되었다. 그는 것이 되었다. 													
	이 사이 경기에 가장되었습니다. 그는 사이를 가장 하게 하면 하는 이 이 사이를 받는다. 													
	는 사람들이 되었다. 이 경우 전쟁 경우 전에 가장하는 것이 되었다. 그는 사람들이 되는 것이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. 													
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	마스 마스 마스 마스 등 함께 있다. 아니라는 사람이 되었다. 그리고 말하는 것이 되었다. 그 그리고 그는 그는 그는 그는 그리고 있다. 그리고 말하는 것이 없는 것이 없는 것이 없는 것이 되었다. 그리고 말하는 것이 없는 것이 되었다. 그리고 말하는 것이 되었다. 그리고 말하는 것이 되었다. 그리고 있다. 그리고 말하는 것이 없는 - 그리고 말하는 것이 없는 것이 있다. 그리고 말하는 것이 되었다. 그리고 말하는 것이 되었다. 그리고 말하는 것이 되었다. 그리고 말하는 것이 되었다. 그리고 말하는 것이 없는 것이 되었다. 그													
	마다 마시아 사용하다 하는 경우를 통해하는 것이 되었다. 그런 사용하는 경우를 하는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다는 것이 되었다. 													



VAGINA, V.S.; RASSULOVA, Kh.N.; DMITRIYEV, O.V.

1. Zheleznodorozhnyy bazovyy sanatoriy imeni XX s"yezda Kommunistiche-skoy partii Sovetskogo Soyuza (glavnyy vrach R.S.Chubarov, nauchnyy rukovoditel' kand.med.nauk Yu.S.Vishnevskaya).

DREMS, Maria; FASSUMOWSKA, Danuta; SLIWINSKA, Zoria; TYSPER, Yofia

Tentutive clinical evaluation of the value of estimation of alpha-amylase in the saliva and blood serum in malivary gland diseases. Pt.l. Czas. storat. 18 no.8/9:1099-1103 Ag-S 165.

1. 7 Kliniki Chirurgii Stomatologicznej AM w Poznaniu (Kierownik: prof. dr. J. Stadnicki).

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9,4300 (1137,1138,1143)

S/048/60/024/010/018/033 B013/B063

AUTHORS:

Bogdanov, S. V. and Rassushin, V. A.

TITLE:

The Semiconductor Properties of BaTiO3

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PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 10, pp. 1247-1250

TEXT: The authors studied the effect of some slight additions to BaTiO₂ upon its semiconductor properties. Some data are given concerning the dependence of log g on 1/T for BaTiO₃ monocrystals, to which linthanum and vanadium were added. The crystals were bred according to the method described by Remeika. On the introduction of additions the number of lamella-shaped crystals was reduced, and the principal mass was granulated. In the case of V2O₅ the crystals were bright-yellow. With La2O₃ the color varied between pink and violet. Regarding the addition concentration in monocrystals, no precise values could be established. By indirect values it is possible to estimate whether the addition is contained in the crystal. Fig. 1 shows the temperature dependences of

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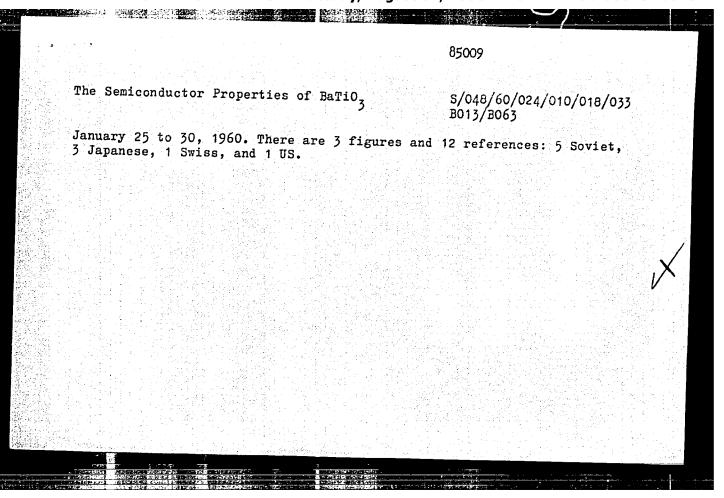
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The Semiconductor Properties of BaTiO₃

S/048/60/024/010/018/033 B013/B063

c for monocrystals with La and for BaTiO3. The temperature dependence of resistivity was measured for the monocrystals obtained. Individual results are given in Fig. 2 for crystals with vanadium. At room temperature, resistivity amounts to 1.37.1012 ohm.cm. For specimens with lanthanum, data are given in Fig. 3. It may be seen that there is an anomalous section in the curve $\log g = f(1/T)$. This resembles the section described by Saburi for ceramic BaTiO3 specimens with rare earths. Its existence can likewise serve as indirect evidence of the presence of the addition in the crystal. A great reduction of the quantity 9 could not be achieved. Similar results were obtained on a large number of specimens. The anomalous course of the curve & (T) can be explained by the fact that this section lies in the region of the phase transition, during which a rearrangement of the zonal crystal structure takes place (Ref. 12). Below the phase transition the additions are split, which fact leads to an increase of conductivity. Above the phase transition splitting disappears and conductivity is reduced. Mention is made of M. D. Mashkovich, Ye. V. Sinyakov, B. K. Chernyy, A. F. Yatsenko. The present paper was read at the Third Conference on Piezoelectricity, which took place in Moscow from

Card 2/3



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L 18949-63 ENT(1)/ENP(q)/ENT(m)/BDS/ES(s)-2 AFFTC/ASD/ESD-3/IJP(C)/ Pt-4 GG/JD ACCESSION NR: AP3007516 \$/0181/63/005/009/2703/2704 AUTHOR: Bogdanov, S. V.; Rassushin, V. A.; Sinkha, D. K. TITLE: Relaxation properties of BaTiO; single crystals containing antimony impurities SOURCE: Fizika tverdogo tela, v. 5, no. 9, 1963, 2703-2704 TOPIC TAGS: barium titanate relaxation property, single crystal relexation property, barium titanate single crystal, barium titenate crystal property, barium titenate crystal, barium titanate, relaxation property, barium titanate dielectric property ABSTRACT: The dielectric constant as a function of temperature was investigated in barium titanate single crystals containing Sb203 impurities. It was found that 1) the single crystals of barium titanate possess ferroelectric and relaxation properties for certain antimony impurity concentrations; 2) the introduction

L 18949-63 ACCESSION NR: AP3007516 of antimony impurities lowers the Curie point, the effect being well marked at antimony concentrations above 0.01 mol%; and 3) the appearance of a maximum on a curve of dielectric constant versus temperature indicates the presence of relaxation polarization in that temperature region. Dependence of the dielectric constant on temperature was also investigated for temperatures of 120-200C. Orig. art. has: 2 figures. ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR, Moscow (Physics Institute, AN SSSR) SUBMITTED: 06Dec62 DATE ACQ: 140ct63 ENCL: 00 SUB CODE: PH NO REF SOV: 001 OTHER: Card 2/2

L 25240-65 EWT(1)/EWT(m)/T/EWP(t)/EEC(b)-2/EWP(b) IJP(c) JD

ACCESSION NR: AP5004342

5/0070/65/010/001/0074/0080

AUTHOR: Bogdanov, S. V.; Kiseleva, K. V.; Rassushin, V. A.

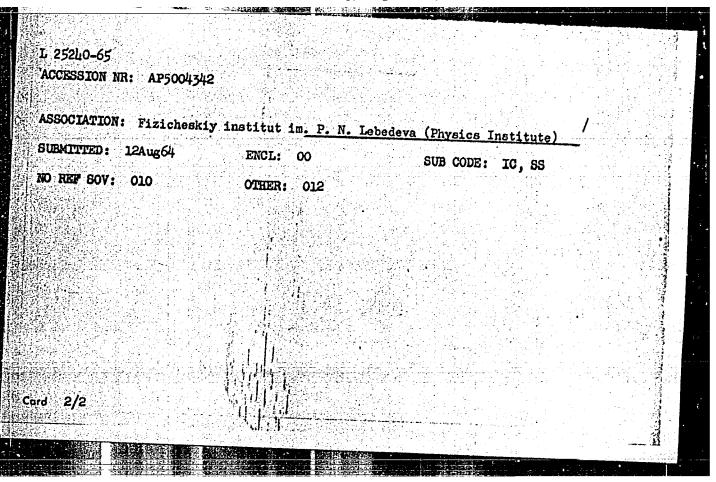
TITIE: Effect of bismuth additives on some physical properties of BaTiO₃ single

SOURCE: Kristallografiya, v. 10, no. 1, 1965, 74-80

TOPIC TAGS: bismuth additive, barium titanate, bismuth ion behavior

ABSTRACT: The effect of small concentrations of bismuth additive on the structure, dielectric properties, losses, Cury point, and the spontaneous crystallization of BaTiO₃ were investigated. It was shown, that two ranges: (1) from 0 to 0.16 atomic \$\psi\$ of Bi and above 0.16 atom. \$\psi\$ can be separated in the concentration dependency of structural parameters T_k and P_s. The different behavior of the said values in these concentration ranges is linked to different behaviors of bismuth ions in the BaTiO₂ lattice. In the second range, relaxation dependencies and tg , related to the electron processes, were disclosed. Probable mechanisms of relaxation processes are also discussed. Orig. art. has: 6 figures and 1 table.

Card 1/2



PORT NORTH THE PROPERTY WAS A STREET TO THE PROPERTY OF THE PR L 57564-65 EWT(1)/EPA(s)-2/EWT(m)/EEC(t)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/GG ACCESSION NR: AP5016138 UR/0048/65/029/006/0994/0998 AUTHOR: Bogdanov, S.V.; Kiseleva, K.V.; Matsonashvili, B.N.; Rassushin, TITLE: A Effect of doping with iron on some physical properties of barium titanate single crystals YReport, 4th All-Union Conference on Ferroelectricity held in Rostov-on-the-Don 12-18 Sept 1964/ SOURCE: AN SSSR. Izvestiya. Ser. fizicheskaya, v. 29, no. 6, 1965, 994-998 TOPIC TAGS: ferroelectric crystal, barium titanate, doping, iron crystal structure, phase transition, dielectric constant, electric conductivity, optic absorption ABSTRACT: The authors have measured the dielectric constant, electrical conductivity and optical transmission of BaTiO3 single crystals containing up to 6 at.% Fe and have investigated the structure of the crystals by x-ray diffraction. At room temperature the structure of crystals containing from 0.48 to 2.6 at.% Fe was tetragonal; crystals containing more than 2.6 at. Fe were cubic and their lat-Card1/3

ACCESSION NR: AF5016138

tice constants were independent of the Fe content. When the temperature was reduced, the (431) reflections from crystals that were cubic not. This broadening was maximum at 2430K, and at 770K the width of the (431) reflections was practically the same as at room temperature phase transition occurs between 243 and 770K. The dielectric constants curie point is displaced toward lower temperatures with increasing Fe content. The authors also assert that the dielectric constants from 100 to 5300K. It was found that the content. The authors also assert that the dielectric constant maximum temperatures. Electrical conductivities were measured at temperatures from 100 to 5300K. The plots of the logarithm of the conductivity against the reciprocal of the temperature were straight lines for crystals containing 2.6 at.% or more of Fe and were broken lines for crystals containing 1.64 at.% or less. These curves are analyzed and an ionization energy of 1.5 eV. Optical transmission measurements at

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wavelengths from 0.4 to 2.0 micron showed that the presence of Fe shifts the absorption edge toward longer wavelengths. Three absorption maxima were observed at photon energies of 1.8, 1.5 and 1.1 eV. The 1.8 eV absorption corresponds to ionization of F centers and the 1.5 eV absorption confirms the presence of 1.5 eV acceptor centers. The 1.1 eV absorption is not understood; it is suggested that it may be due to an intra-F center transition. Orig.art.has: 7 formulas and 4 figures.

ASSCIATION: Fizicheskiy institut im.P.N.Lebedeva Akademii nauk SSSR (Physics Institute, Academy of Sciences of the SSSR)

SUBMITTED: 00 ENCL: 00 SUB CODE: SS, ICC.

NR REF SOV: 006 OTHER: 018

L'5761-65 ENT(1)/EPA(s)-2/ENT(m)/EEC(t)/T/ENP(t)/EMP(b)/EMA(c) Pt-7/P1-4

ACCESSION RR' APSOIGI39

UNVOO48/65/029/006/0999/1000

AUTHOR: Bogdanov, S.V.; Rassushin, V.A.

TITLE: Regarding the mechanism of appearance of relaxational polarization in barium titanate single crystals loped with antimony Report, 12-18 Bapt 1964

SUINCE: AN SSSR.Izvestiya.Ser.fizicheskaya,v.29,no.6,1965,999-1000

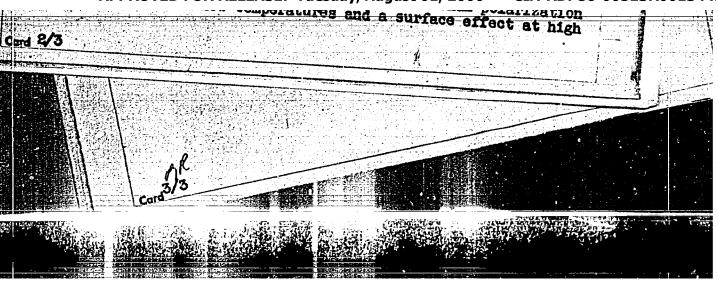
TOPIC TAGS: ferroelectric crystal barium titanate, doping, antimony, dielectric constant, relaxation effect

ABSTRACT: The authors and collaborators have previously shown that to 0.6 at.% Bb is frequency dependent at temperatures well above the tela 5,No.9,2703,1963; Kristallografiya 10,74,1965). In order to desurface barriers at the electrode contacts as was shown by N.P.Bogo
Cord 1/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP80-00513R0013442

L 57561-65 ACCESSION NR: AP5016139

roditskiy and L.V.Smirnov (Fiz.tverdogo tela 4.3418,1962) to be the case for rutile, or to polarization of microinhomogenieties distributed throughout the volume of the crystal as discussed by W.A.Weyl and N.A.Terhune (Ceramic Age 62,2,23,1953), the authors have performed the further measurements reported here. The dielectric constants of the further measurements reported here. The dielectric constants of temperatures from 20 to 270°C and at frequencies of 1 and 10 kilo-in series, of which two represent the surface effect and one represents the volume effect, the authors conclude that the observed capatity will be inversely proportional to the thickness of the sample if thickness if it is due to surface effects. The measurements showed thickness at temperatures well below the Conformal to the



1. 57561-65 ACCESSION NR: AP5016139 temperatures. In the narrow temperature range from 100 to 120°C the capacity was much less thickness-dependent than at neighboring temperatures on either side of this range. It is suggested that this may be due to the presence in BaTiO₃ of a surface layer in which the Curie point is somewhat higher than in the body of the crystal. Orig.art.has: 1 figure. ASSOCIATION: none SUB CODE: SS, TC ENCL: 00 SUPMITTED: 00 NR REF SOV: 006 OTHER: 001

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L 06139-67 EVT(m)/EWP(t)/ETI IJP(c) JD ACC NR: AP6026716

SOURCE CODE: UR/0181/66/008/008/2488/2490

AUTHOR: Galkina, T. I.; Penin, N. A.; Rassushin, V. A.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskiy institut AN

TITIE: Determination of the energetic position of the acceptor level of cadmium in

SOURCE: Fizika tverdogo tela, v. 8, no. 8, 1956, 2488-2490

TOPIC TAGS: arsenide, indium compound, cadmium, ionization

ABSTRACT: The ionization energy of cadmium atoms in Inds was determined from the spectral position of the recombination radiation line of indium arsenide diffusion diodes. The observations were made by transillumination through the n-region of the material, radiation of the diodes arises in the p-region due to radiative capture of an electron acteristic of radiation for direct transitions between the conduction band and the acterior of the separated by the formula

where $y = \frac{\hbar\omega - \epsilon_d + \epsilon_a}{4}$ and $\hbar\omega$ is the energy of a radiation quantum. It follows that Cord 1/2

Cord 1/2

L 06439-67

ACC NRAPPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R00134

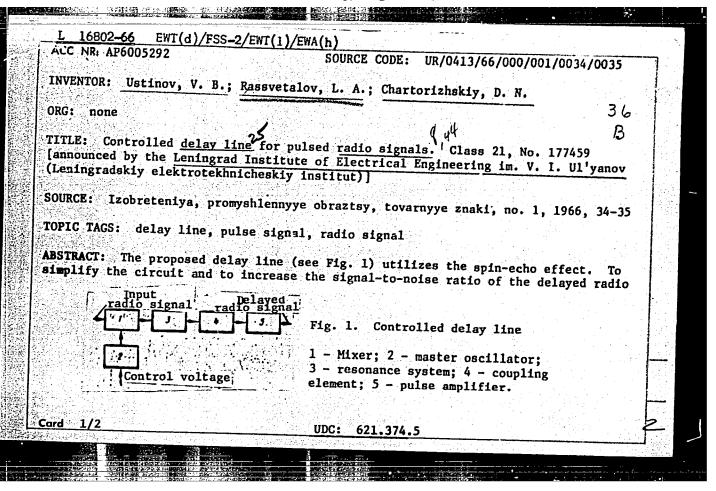
of InAs, necessary for the calculation of the ionization energy of cadmium $\epsilon_{\rm d}$, was obtained from the photoluminescence spectra of InAs at 78 %. At this temperature, the forbidden gap width of indium arsenide $\epsilon_{\rm d} \approx 0.405$ eV, and the ionization energy of cadmium $\epsilon_{\rm a} \approx 0.010$ eV. Authors thank N. M. Ponomarev and D. A. Vlasov, on the staff of GIREDAET, for providing InAs samples of the highest degree of purity. Orig. art.

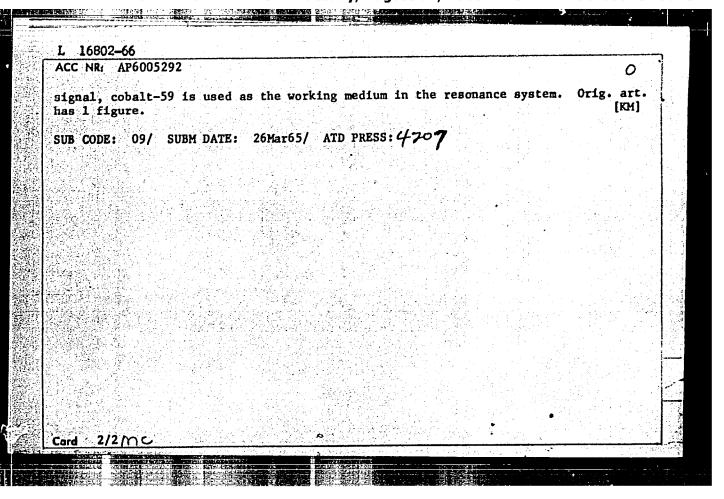
SUB CODE: 20/ SUBM DATE: 14Feb66/ ORIG REF: 001/ OTH REF: 006

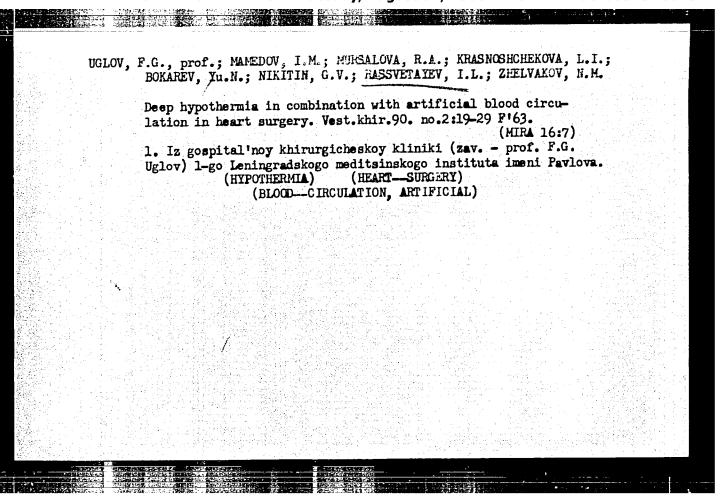
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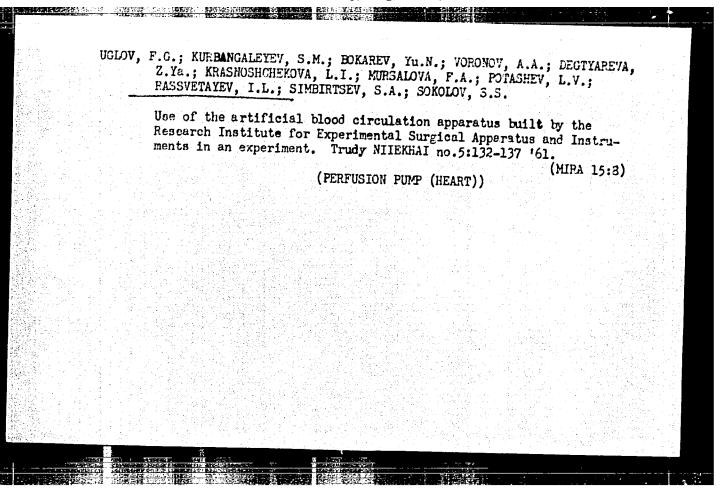
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CIA-RDP86-00513R001344









USSR/Microbiology - Microbiology Pathogenic to Humans and Animals.

F-4

Abs Jour

: Ref Zhur - Biol., No 12, 1958, 52906

Author

: Rassvetayev, V.I.

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Inst Title

Intrauterine Fetal Infection by Tick Spirochaetes.

Orig Pub

: Za sots. zdravookhr. Uzbekistana, 1956, No 6, 41-42.

Abstract

of 33 pregnant women under observation 12 were treated before delivery by miarsenol, 3 by streptomycin, 2 by streptomycin and syntomycin, and 2 by biomycin. In 9 newborn infants whose mothers were not treated, spirchaetes were found in the blood. 11 woman who received 1.2-1.5 g of miarsenol before delivery gave birth to healthy, uninfected children. Children born of mothers treated by other methods proved to be infected by spirochaetosis. Of all arsenic preparations, the most effective in treating pregnant women ill with tick spirochaetosis.

Card 1/2

USSR/Human and Animal Physiology - (normal and Pathological).

Physiology of Work and Sport. Aviation Physiology.

Abs Jour : Ref Zhur Biol., No 4, 1959, 18033

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Author : Rassvetayev, V.V.

Inst : Military Medical Academy

Title : Secretory and Motor Functions of the Stomach in Digs in

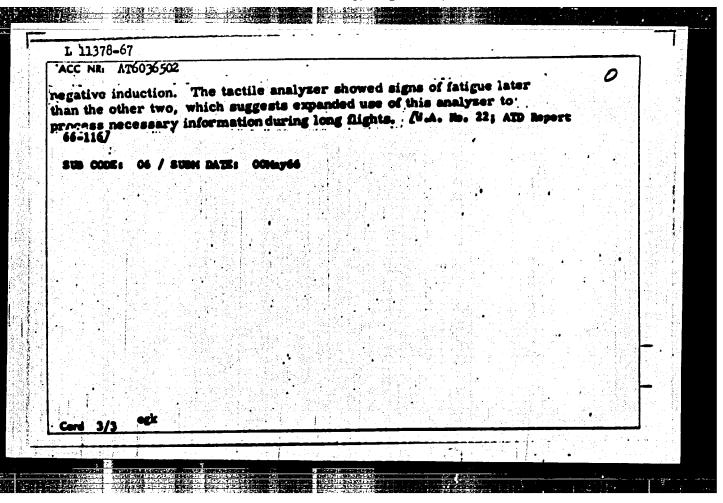
Motion Sickness. (Experimental Investigation).

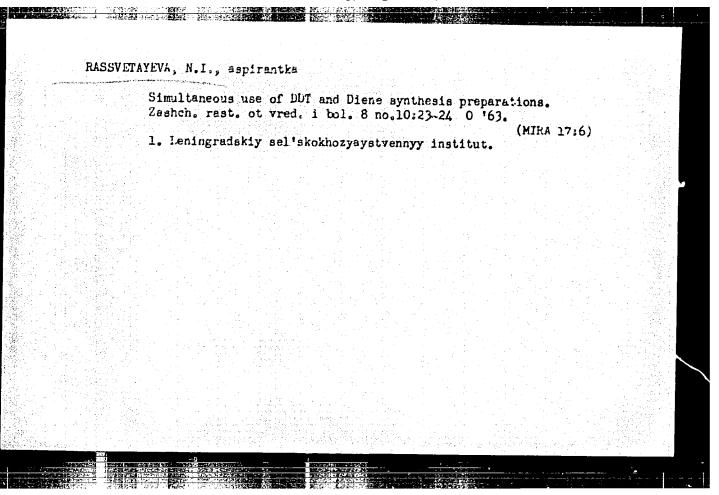
Orig Pub : Tr. Voyen.-med. akad., 1957, 79, 5-50

Abstract : No abstract.

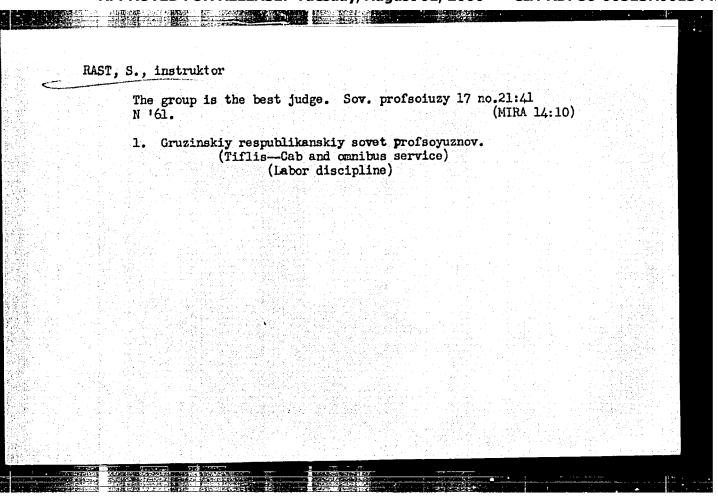
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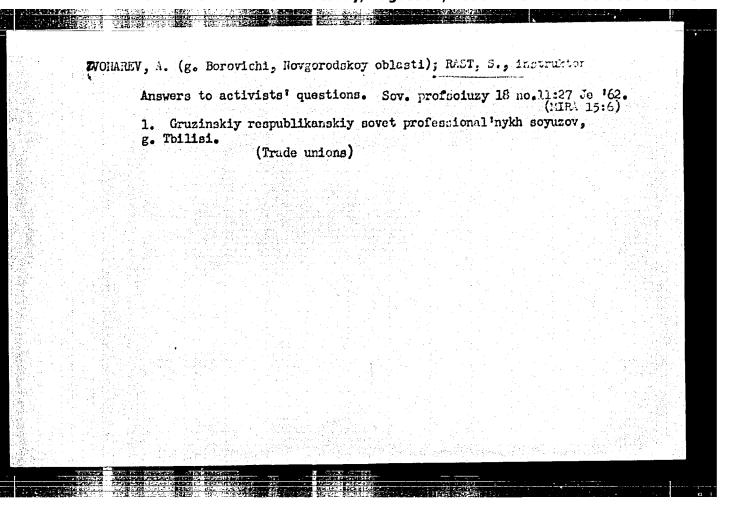
L 11378-67 ACC NR: AT6036502 action, time of a reaction with choice, number of errors, amount of information processed, input (or traffic) capacity, and time required for processing one unit of information. It was found that the input capacity of the visual analyzer increased gradually in the first 9 hrs of flight, and then decreased by the 15th hr. However, the input capacity of the auditory analyzer decreased regularly during the entire flight. The input capacity of the tactile analyzer increased (with some variations) until the 12th hr, and then decreased to initial levels. The gradual increase in input capacities observed in visual and tactile analyzers in the first 9--12 hrs of flight is probably due to adaptation of the organism to new conditions, with increased analyzer lability. The subsequent decrease in input capacity is caused by fatigue, first noticed in crew commanders. The high noise level in the aircraft contributed strongly to the decrease in auditory analyzer input capacity. Characteristically, the greatest shifts in auditory function were observed in commanders and radio operators, who are responsible for external and internal radiocommunications. The visual analyzer is kept in a continual state of stress by the necessity for constant monitoring of many instruments. In the auditory analyzer inhibitory processes are developed in the cortex due to





Preparation for written graduation tests in geometry including trigonometry. Mat. v shkole no.2:36-38 Mr-Ap '55. (Geometry--Problems, exercises, etc.) (Trigonometry--Problems, exercises, etc.) **Trigonometry** (MIRA 9:6) (Geometry--Problems, exercises, etc.) (Trigonometry--Problems, exercises, etc.)





RASTA, H.

Old shore lines of the Baltic Sea in Estonian SSR.

p. 219 (Moksliniai Pranesimai) Vol. 4, 1957, Vilnius, Lithuania

So: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, Vol. 7, No. 1, JAN. 1958

<u>I 47224-66</u> RO ACC NR: AP6022432

SOURCE CODE: CZ/0040/66/000/003/0061/0063

AUTHOR: Rastak, Emil

ORG: none

TITLE: The Z-37 "Cmelak" [aircraft] and its equipment for use in agriculture

SOURCE: Letecky obzor, no. 3, 1966, 61-63

TOPIC TAGS: chemical spray tank, agriculture, utility aircraft, auxiliary aircraft

equipment

ABSTRACT: The article describes the application of agricultural equipment used on the aircraft Z-37 Cmelak. The mechanical transmission which powers the agricultural equipment from the motor of the aircraft (output 12 HP at 2,000 rpm), the container of chemicals (two stainless steel cones 670 dm³ in volume), and the application equipment (sprayer, spreader, etc.) are described. A table gives comparative data for the outputs of several types of agricultural aircraft (Z-37, L-60, JAK-12, and Piper Pawnee). The data refers to the operational speed, chemical carrying capacity, type of transmission and maximum output, and the width and volume of the spraying of granulated chemicals, dust chemicals, water solutions, and oil solutions. The rotating spreader of mineral fertilizers is a technical novelty which received a Czechoslovak patent. When a dispersion wing is added to the spreader, the overall width of spraying can be increased to as much as 60 m. The output of the Z-37 Cmelak is almost twice as high

Card 1/2