

NORKIN, I.A., inzh.; KRASNOV, M.N., inzh.

Improvement of a mechanical VTI system sampler operating in large  
coal conveying systems. Energetik 11 no.1:12-13 Ja '63.  
(MIRA 16:1)

(Boilers)

KRASNOV, M.Ya., kand.biologicheskikh nauk

Organization and technique of controlled fattening of swine in  
Denmark. Zhivotnovodstvo 23 no.8:85-91 Ag '61. (MIRA 16:2)  
(Denmark--Swine--Feeding and feeds)

LADAN, P.Ye., prof.; KRASNOV, M.Ye.

New method for determining the fatness of farm animals  
by ultrasonic waves. Zhivotnovodstvo 23 no.7:77-79 JI '61.  
(MIRA 16:2)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh  
nauk imeni Lenina (for Ladan). 2. Direktor Kishinevskogo  
zavoda "Elektrotechpribor" (for Krasnov).  
(Stock and stockbreeding)  
(Ultrasonic waves)

KRASNOV, N., inzh.

Landing on ground. Graphd. av. 19 n<sup>h</sup>. 10:16 0 '62, (MIRA 16:2)  
(Airports—Cold weather conditions)

VOLKOV, Aleksandr Ivanovich; KRASNOV, N.A., red.

[Rights and duties of the collective farms reproduction intensification; based on the materials of the Plenum of the Central Committee of the CPSU held in February 1964]  
O pravakh i obiazannostiakh kolkhozov po intensifikatsii proizvodstva; po materialam Plenuma TsK KPSS, sostoivshegosia v fevrале 1964 goda. Moskva, IURidicheskaja literatura, 1964. 61 p. (MIRA 17:11)

3137 KRASNOV, N. F.

Aerodinamika. (ucheb. posobie). M., 1954. 21 sm. (M-vo vyssh. obrazovaniya SSSR. Mosk. ordena tru d. Krasnogo znameni byssh tekhn. Uchilishche Im. Baumana) B. Ts. V per. Ch. 2. Hekotoryye voprosy prikladnoy aerodinamiki. 282 S. s chert; 5 l. graf, 500 ekz. - bibliogr; s 241-242 (15 naev.)- (54-57687) 533.6 + (016.3)

KRASNOV, N.F., kandidat tekhnicheskikh nauk, dotsent.

Approximate evaluation of the aerodynamic coefficients of thin rotating bodies moving at very high supersonic speeds. [Trudy] (MLRA 9:8)  
MVTU no.32:75-99 '55.  
(Aerodynamics, Supersonic) (Projectiles) (Ballistics)

KRASNOV, N.F., kandidat tekhnicheskikh nauk, dotsent.

Approximate methods for calculating the distribution of pressure and wave resistance of bodies moving at supersonic speeds under zero angle of incidence. [Trudy] MVTU no.32:100-116 '55. (MLRA 9:8)  
(Ballistics) (Projectiles) (Aerodynamics, Supersonic)



PHASE I BOOK EXPLOITATION 898

Krasnov, Nikolay Fedorovich

Aerodinamika tel vrashcheniya (Aerodynamics of Bodies of Revolution)  
Moscow, Oborongiz, 1958. 559 p. 8,000 copies printed.

Reviewers: Arzhanikov, N.S., Professor; Shumyatskiy, B.Ya., Candidate  
of Technical Sciences; Kuznetsov, S.I., Candidate of Technical  
Sciences; Ed.: Krasil'nikov, S.D., Engineer; Ed. of Publishing  
House: Tubyanskaya, F.G.; Tech Ed.: Pukhlikova, N.A.; Managing  
Ed.: Sokolov, A.I., Engineer.

PURPOSE: This book is approved by the Ministry of Higher Education  
of the USSR as a text book for a course in Aerodynamics at vuzes  
and may also be useful to graduate students and instructors at such  
institutions, and to scientific workers and engineers at scientific-  
research institutes.

COVERAGE: The book treats problems connected with the aerodynamics of

Card 1/10

Aerodynamics of Bodies of Revolution

898

revolution at supersonic speeds, such as the forms used in ballistics, rocketry, and aeronautics. Among the subjects covered are the theory and calculation of the flow around a cone at supersonic speeds, the method of characteristics and its application to the investigation of the flow around a body of revolution of arbitrary shape; methods are described for calculating aerodynamic coefficients in a linearized flow as well as at very high Mach numbers; some information is given also on the aerodynamics of bodies of revolution at subsonic and nearsonic speeds. The author expresses his gratitude to Professor N.S. Arzhanikov, Honored Scientist and Technician of the RSFSR, to the reviewers of the book, and to Professors V.I. Feodos'yev, I.A. Panichkin, and K.P. Stanyukovich for valuable advice and help with the manuscript. The book contains 215 figures and 43 tables. There are 45 references, of which 29 are Soviet (including 7 translations), 12 English, 3 German and 1 Italian.

Card 2/10

KRASNOV, N F.

10(2); 28(1); <sup>b, c, d</sup>29(1) PHASE I BOOK EXPLOITATION SOV/1603

Moscow. Vyssheye tekhnicheskoye uchilishche imeni Baumana

Nekotoryye voprosy mekhaniki; sbornik statey (Some Problems in Mechanics; Collection of Articles) Moscow, Oborongiz, 1958. 197 p. (Series: Its [Trudy] vyp. 88) Number of copies printed not given.

Ed. (Title page): V.I. Feodos'yev, Doctor of Technical Sciences, Professor; Ed. (Inside book): A.S. Ginevskiy, Candidate of Technical Sciences; Ed. of Publishing House: L. Ye Serebrennik; Tech. Ed.: L.A. Garnukhina; Managing Ed.: A.S. Zaymovskaya, Engineer.

PURPOSE: This collection is intended for scientific workers, Aspirants and students of advanced courses who are interested in problems of aero- and gas dynamics and in the theory of directional control of aircraft.

COVERAGE: The collection contains reports on various problems in applied mechanics. A large portion of the articles is  
Card 1/8

Some Problems in Mechanics (Cont.)

SOV/1603

devoted to aerodynamic and gas dynamic investigations. In the first article of the collection, the author, Professor K.P. Stanyukovich, considers the laws of motion of a gas-drop-let medium— in particular, the laws of motion of a mechanical mixture of a liquid and a gas with liberation of energy. His conclusions are applicable to the investigation of the motion of a burning fluid jet. The two reports by N.F. Krasnov deal with the aerodynamics of bodies of revolution. In the first, he develops briefly the method of characteristics as applied to the calculation of nonsymmetrical flow about bodies of revolution. In his second report, which treats the base drag of bodies of revolution moving at both subsonic and supersonic speeds, he presents an approximate formula derived for the calculation of the base-drag coefficient in the case of turbulent flow about a body at supersonic speed. V. F. Mikhaylina presents in her report the approximate formulas she obtained for determining the distance between an isolated compression shock and the vertex of a blunt-nosed body of arbitrary form in supersonic flow, and also for determining the velocity and pressure near the critical point. Professor Panichkin presents in his report the partial and general solutions of the differential equation used in the investigation

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Some Problems in Mechanics (Cont.)

SOV/1603

of the flow about bodies of revolution at high subsonic speeds. Kovalev's article is concerned with the investigation of the damping moment associated with the banking of an aerodynamic surface in a supersonic gas flow. He proposes a method for calculating an arbitrary damping moment for wings of rectangular, triangular, and trapezoidal forms. Yesiyev's article is concerned with the damping moment produced by the gas flow from a jet engine nozzle opposing the rotation of the vehicle (if the axis of rotation is not parallel to the nozzle axis). Pobedonostsev and Stanyukovich investigate in their article the problem of optimum ratios of the stages of a multistage rocket. In another report, Stanyukovich generalizes Tsiolkovskiy's ratio in the relativistic sense. The last three articles of the collection are devoted to problems of directional control of aircraft and the theory of automatic control. Shumilov investigates an unsealed control mechanism with cam transmission. Samoylov considers another variety of a control mechanism based on the use of a so-called stream tube. In the last report,

Card 3/8

Some Problems in Mechanics (Cont.)

SOV/1603

Miroslavlev investigates the motion characteristics of one of the automatic control systems used, especially in aircraft and in ship's steering gears.

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## Some Problems in Mechanics (Cont.)

SOV/1603

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D 61057-65 RWP(a)/RPT(1)/RCS(6) R-1

ACCESSION NR AM5000927

BOOK EXPIRATION

SI  
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64

Krasnov, Nikolay Fedorovich

Aerodynamics of rotating bodies (Aerodinamika tel vrashcheniya), 2d ed., rev. and enl., Moscow, Izd-vo Mashinostroyeniya, 1964, 572 p., illus., biblio. Errata slip inserted. 5,000 copies printed.

TOPIC TAGS: aerodynamics, hypersonic flow, supersonic flow, gas dissociation, transonic flow, lift

PURPOSE AND COVERAGE: The second edition of this book contains the most important results of theoretical and experimental research on the aerodynamics of hypersonic speeds performed in the years since the first edition of the book (1958). The materials included sections on gas flow with very high (hypersonic) speeds, the effect of gas dissociation and ionization on its parameters beyond the drop in compression, thermal shielding and mass wear from the surface of the body, the aerodynamics of rarefied gases, and the aerodynamics of blunt rotating bodies. The sections which have been included from the first edition have been made more exact and reworked considering recent theoretical and experimental data. The book is basically a textbook for students in higher technical educational institutions; it can also be useful to engineers and researchers.

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SUBMITTED: 20 June 64

SUB CODE: AC, TD

NO REF NOV: 029

OTHER: 019

Card 2/2 MB

ARZHANIKOV, Nikolay Sergeevich; SADEKOVA, Galina Sadekovna;  
KRASNOV, N.F., doktor tekhn. nauk prof., retsenzent;  
KOSHEVOY, V.N.; dots., retsenzent; DANILOV, A.N.,  
dots., retsenzent; BELYAKOVA, Ye.V., red.

[High-velocity aerodynamics] Aerodinamika bol'shikh sk-  
rostei. Moskva, Vysshaya shkola, 1965. 558 p.

(MIRA 19:1)

1. Zaveduyushchiy kafedroy aerodinamiki Moskovskogo vys-  
shego tekhnicheskogo uchilishcha im. Baumana (for  
Krasnov). 2. Kafedra aerodinamiki Moskovskogo vysshego  
tekhnicheskogo uchilishcha im. Baumana (for Koshevoy,  
Danilov).

KRASNOV, N.I., assistant

Treating endometritis in cattle. Sbor. nauch. trud. Ivan. sel'khoz. Inst. no.19:215-221 '62.

Compound treatment of endometritis in cows. Ibid.:222-230

(MIRA 17:1)

1. Kafedra veterinarii, akusherstva i zoogigiyeny (zav. - prof. F.F. Porokhov) Ivanovskogo sel'skokhozyaystvennogo instituta.

KRASNOV, N.I., assistant; NIKOLAYEVSKIY, I.I., prof.

Compound therapy of endometritis in cattle. Sbor.nauch.  
trub. Ivan.sel'khoz.inst. no.16:181-185 '58. (MIRA 13:11)

1. Kafedra akusherstva i zoogigiyemy Ivanovskogo sel'skokho-  
zyaystvennogo instituta (for Krasnov).  
(Endometriosis) (Cattle--Diseases and pests)

KRASNOV, N.I., inzh.

Occurrence of a rise in the depression curve for the earth dam of  
the Tsimlyansk Hydroelectric Power Station. Gidr. stroi. 32  
no.10:38-40 0 '61. (MIRA 14:10)  
(Tsimlyansk Hydroelectric Power Station--Dams)

KOZYR', Mikhail Ivanovich; KRASNOV, Nikolay Ivanovich; SINITSYN, N.A.,  
red.; SHCHEDRINA, N.L., tekhn.red.; TARASOVA, N.M., tekhn.red.

[Legal problems in the further development of collective farms  
in the U.S.S.R.] Pravovye voprosy dal'neishego razvitiia  
kolkhoznogo stroia v SSSR. Moskva, Gos.izd-vo iurid.lit-ry,  
1960. 70 p. (MIRA 13:?)

(Collective farms)

*KRASNOV, N.N.*

AUTHORS: Dmitriyev, P.P., Krasnov, N.N., Khaprov, Ye.N. 89-7-9/32

TITLE: On the Problem of the Deflection of a Bundle in a Cyclotron  
(K voprosu ob otklonenii puchka v tsiklotrone)

PERIODICAL: Atomnaya Energiya, 1957, Vol. 3, Nr 7, pp. 45-47 (USSR)

ABSTRACT: At first some previous works dealing with this subject are discussed. The experiments for the production of a deflected bundle were carried out by means of a meter cyclotron. According to computation a deuteron energy of 10.6 MeV corresponds to the output radius of 44 cm. The magnetic field here decreases by 2.2% and the coefficient for the decrease of the magnetic field amounts to  $n = 0.2$ . A schematical section through the chamber of the cyclotron is shown by a schematical drawing. An ion source with covered-up arcs was used on the occasion of these experiments. The shifting of the source and the control of its location takes place by remote control without switching off of the cyclotron. The high voltage is transferred into the duants in form of pulses with a frequency of 200 pulses per sec. The voltage amplitude between the duants amounts to from 90 to 100 kV. The current intensity of the inner bundle amounts to from 800 to 100 micro-

Card 1/2



On the Problem of the Deflection of a Bundle in a Cyclotron

89-7-9/32

ampères within the pulse. The current intensity of the deflected bundle can be registered on three places by means of the targets M1, M2, and M3. Measuring takes place simultaneously by means of a thermal and an electric method. The first experiments were carried out by means of the usual deflector with plane electrodes. With the shifting of the ion source a sharp maximum in the current intensity of the deflected bundle is observed. With the modification of the amplitude of the voltages between the duants a new location of the source had to be chosen for the purpose of obtaining the maximum current intensity. (Numerical data are given). It was possible to increase the current intensity of the deflected bundle (on the target M1) up to from 45-50% of the current intensity of the interior bundle. Next, a deflecting system with hyperbolic electrodes was investigated. The current intensities registered on all three exterior targets were equal to one another, which signifies a shortening of the horizontal dimensions of the bundle. There are 3 figures and 6 references, 4 of which are Slavic.

SUBMITTED:

February 8, 1957

AVAILABLE:

Library of Congress

Card 2/2

1. Ion bundles - Deflection - Test results 2. Cyclo-  
trons - Operation

KRASNOV, N. V.

PHASE I BOOK EXPLOITATION SOV/1297  
 Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po prikladnoy radioaktivnoy i stabil'nykh izotopov i ikh primeneniyu v khozyaystve i nauke, Moscow, 1957  
 Polubimnye izotopy. Noshchyye gamma-ustanovki. Radiometriya i dosimetriya; trudy konferentsii... (Isotope Production and High-energy Gamma-Radiation Facilities. Radiometry and Dosimetry) Translations of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the Field of Economy and Science, Moscow, 1st-2nd AN SSSR, 1958. 293 p.  
 Sponsoring Agency: Akademiya nauk SSSR; Otdel'noye upravleniye po ispol'sovaniyu atomnoy energii SSSR.  
 Editorial Board: Prolov, Yu.S. (Resp. Ed.), Zhavoronkov, M.M. (Deputy Resp. Ed.), Gintsev, K.K., Alekseyev, S.A., Kochkarev, V.V., Lebedinskiy, M. Gintsev, K.K., Alekseyev, S.A., Kochkarev, Popova, G.L. (Secretary); Malkov, T.F., Sinitin, G.I., and Popov, G.L. (Secretary); Tech. Ed.: Novichkov, M.D.  
 PURPOSE: This collection is published for scientists, technologists, persons engaged in medicine or medical research, and others concerned with the production and/or use of radioactive and stable isotopes and radiation.

CONTENTS: Thirty-eight reports are included in this collection under three main subject divisions: 1) production of isotopes; 2) high-energy gamma-radiation facilities; and 3) radiometry and dosimetry.

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PART I. PRODUCTION OF ISOTOPES

Prolov, Yu.S., V.V. Kochkarev, and Ye.Ye. Kulish. Development of Isotope Production in the Soviet Union. Kulish. Development of apparatus, raw materials, applications, investigations, and future prospects for radio isotopes in the Soviet Union.	5
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21(8)

AUTHORS: Guldamashvili, A. I., Dmitriyev, P. P. SOV/89-5-6-18/25  
Krasnov, N. N., Mishin, V. Ya.,  
~~Knáprov, Ye. N.~~

TITLE: The Production of the Isotope As<sup>74</sup> by Means of a Cyclotron  
(Polucheniye izotopa As<sup>74</sup> na tsiklotrone)

PERIODICAL: Atomnaya energiya, 1958, Vol 5, Nr 6, pp 660 - 661 (USSR)

ABSTRACT: As<sup>74</sup> was obtained by the irradiation of metallic germanium with the external 10,8 MeV deuteron beam of the cyclotron (Ref 5).  
The characteristic feature of the target was the fact that the cooling water immediately reached the inner surface of the irradiated germanium plate. The germanium plate was cast in a vacuum and was then ground to the dimensions 170.40.4 mm<sup>3</sup>. The deuteron beam (60-70 μA) is limited by a shutter so that only a surface of 150.25 mm<sup>2</sup> of the germanium was irradiated. The water consumption was 5 l/m.  
Chemical separation was carried out as follows: After the irradiated sample had been boiled twice (for 15 to 20 minutes) in aqua regis, about 97-98 % of the activity had dissolved.

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The Production of the Isotope As<sup>74</sup> by Means of  
a Cyclotron

SOV/89-5-6-18/25

The solution was steamed-in and extracted with 11 n HCl (method according to reference 6). The arsenic carrier used weighed 50  $\mu$ g. Concentration of the arsenic isotope was carried out by the Marsh method (arsenic hydride). The two preparations, which were enclosed in an ampoule of 0,6 cm<sup>3</sup>, had an initial activity of 60 mC. The As<sup>74</sup> activity was measured by comparison with a Co<sup>60</sup> source by means of the micro-roentgenometer of the type "Kaktus" 30 days after irradiation. The total yield obtained by the formation of As<sup>74</sup> was:

25  $\mu$ C/ $\mu$ A.hr 15 %. The half time was:  $T_{1/2} = 18,4 \pm 0,4$  d.

Professor B. S. Dzhelepov, I. P. Selinov, and Ye. Ye. Baroni interested themselves in this work. M. Z. Maksimov calculated the yield curve. Yu. A. Bliodze and I. I. Zhivotovskiy assisted in carrying out experiments. There are 2 figures and 10 references, 3 of which are Soviet.

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The Production of the Isotope As<sup>74</sup> by Means of  
a Cyclotron

SOV/89-5-6-18/25

SUBMITTED: September 13, 1958

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21,2100

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S/120/60/000/02/042/052  
E140/E335

AUTHOR: Krasnov, N.N.

TITLE: High-frequency Ion Source<sup>1</sup> for Cyclotron<sup>1</sup>/<sub>9</sub>

PERIODICAL: Pribery i tekhnika eksperimenta, 1960, No 2,  
pp 148 - 150 (USSR)

ABSTRACT: The lifetime of ion sources employing arc discharge in a magnetic field is limited by sputtering of the electrodes. A high-frequency arc is proposed, for which the electrode lifetime should be greater. The source operated at 60 Mc/s, with magnetic field of 5 kOe. Technical nitrogen was employed at a pressure approx.  $10^{-2}$  mm Hg. The current available through an opening of 2 mm diameter was 1 mA. Acknowledgments are expressed to I.G. Kas'yanov<sup>and</sup> P.P. Romanov, who assisted in the construction of the apparatus. There are 3 figures.

SUBMITTED: March 30, 1959

Card 1/1

E 48835-65 ENI(m)/ENP(e)/ENR(h)/ANA(h) LIT(c) D/DK

ACCESSION NR: AP5005812

S/0089/65/018/002/0184/0187

AUTHOR: Dmitriyev, E. P.; Kravtsov, N. N.

TITLE: Excitation function of the reaction  $Cu^{63}(d, 2n)Zn^{65}$  and the yield of  $Zn^{65}$

SOURCE: Atomnaya energiya, v. 18, no. 2, 1967, 184-185

TOPIC TAGS: deuteron bombardment, deuteron reaction, copper, zinc, isotope separation, radioactive isotope

ABSTRACT: In view of the contradictory results of earlier investigations, the authors measured the excitation function and the  $Zn^{65}$  yield at deuteron energy 20 MeV. The yield was determined by two methods - irradiation of a thick copper target and irradiation of a stack of copper foils. When the foils were used, the excitation function of the reaction  $Cu^{63}(d, 2n)Zn^{65}$  is obtained simultaneously with the yield. The procedure employed in both methods are described in some detail. Methods of eliminating the background are described. The results are shown in Fig. 1 of the Enclosure, where data obtained by others are shown for comparison. The reasons for some of the discrepancies are discussed. The work was

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ACCESSION NR: AP5005812

4  
performed in the 1.5 m cyclotron at the Physiko-energeticheskiy institut (Physics and Power Institute). The authors thank O. A. Sal'nikov for useful remarks, Z. P. Daitriyev for the calculations, and Yu. G. Sevast'yanov and Yu. P. Pen'kov for radiochemical separation of the zinc and cobalt. Orig. art. has: 1 figure and 2 formulas.

ASSOCIATION: None

SUBMITTED: 20Feb64

INCL: 01

SUB CODE: NF

NR REF SOV: 007

OTHER: 007

Card 2/3



L 4032-66 EWT(m)/EWA(h) DM  
ACCESSION NR: AP5027962

UR/0089/65/019/001/0062/0063

AUTHOR: Krasnov, N. N.; Dmitriyev, P. P.; Sevast'yanov, Yu. G.; Bezmaternykh, A. S.

TITLE: Production of sup 26 Al during irradiation of Mg with 20-Mev deuterons

SOURCE: Atomnaya energiya, v. 19, no. 1, 1965, 62-63

TOPIC TAGS: aluminum, radioisotope, irradiation, magnesium, deuteron, gamma spectrum, deuteron beam, isotope separation

56  
B

ABSTRACT: High specific-activity sup 26 Al was obtained in the reactions sup 25 Mg(d,n)<sup>+</sup> and sup 26 Mg (d,2n) by irradiating Mg with a 20-Mev deuteron beam. The steps involved in the separation of the radiochemically pure Al are listed. The sup 26Al gamma spectrum, measured on a scintillation spectrometer, is presented. The activity of the sup 26 Al source was measured by comparison of the 511-kev gamma line intensity with a sup 22 Na standard and of the 1830-kev intensity with a sup 88 Y standard. "The authors thank Z.P. Dmitriyeva for the carrying-out of the measurements on the spectrometer." Orig. art. has: 1 graph and 1 table.

ASSOCIATION: none  
SUBMITTED: 20Jul64

NO REF SOV: 002

ENCL: 00

OTHER: 004

SUB CODE: NP

NA

Card 1/1 DP

L 00016-66 ENT(m)/EWA(m)-2 LJR(e)

ACCESSION NR: AP5021368

UR/0120/65/000/004/0219/0221  
621.384.633

AUTHOR: Krasnov, N. N.; Moshin, A. N.; Ognev, A. A.; Ponomarev, A. A.

29  
27  
B

TITLE: Vertical displacements of the cyclotron beam due to the noncoincidence of the magnetic and electric planes

19,55

SOURCE: Pribery i tekhnika eksperimenta, no. 4, 1965, 219-221

TOPIC TAGS: cyclotron, cyclotron frequency, cyclotron magnet

ABSTRACT: During the tuning of the 1.5-m FEI cyclotron the authors observed a vertical displacement of the cyclotron beam due to the noncoincidence of the magnetic and electric planes (the magnetic plane is represented by the surface with  $H_r = 0$ ). The theoretical discussion presented in this paper shows that a small displacement of the mean magnetic plane relative to the electrical plane leads to a substantial vertical displacement of the beam which takes place at radii at which the particle crosses the accelerating gap at negative phase values of the voltage across the Ds. A comparison of the calculations with the experimental results shows that it is difficult at small radii to link the particle loss with plane noncoincidences since at those places the drop in the magnetic field is not very large and, consequently, it is hard to determine the position of the magnetic  
Card 1/2

L 00016-66

ACCESSION NR: AP5021368

plane. Elsewhere (R = 35 cm) the planes are brought into agreement by asymmetric external shimming and this results in a current increase at the final 1.5 m radius up to 3.0 mA within an individual pulse. Orig. art. has: 8 formulas and 2 figures. 2

ASSOCIATION: Fiziko-energeticheskiy institut GKAE, Obninsk (Physics-Power Institute, GKAE)

SUBMITTED: 19 Jun 64

ENCL: 00

SUB CODE: NP

NO REF SOV: 001

OTHER: 000

*mlr*  
Card 2/2

L 35356-66 EWI(m)

ACC NR: AR6017805

SOURCE CODE: UR/0058/66/000/001/A065/A065

AUTHOR: Vartanov, N. A.; Dmitriyev, P. P.; Krasnov, N. N.; Samoylov, P. S.TITLE: Radioactive decay of tellurium-117

SOURCE: Ref. zh. Fizika, Abs. 1V151

REF SOURCE: Tr. Soyuzn. n.-i. in-ta priborostr. vyp. 1, 1964, 233-237

TOPIC TAGS: tellurium, radioactive decay, nuclear energy level, Gamma spectrum, Alpha interaction, neutron interaction, line intensity

ABSTRACT: To determine more accurately the decay scheme, a study was made of the  $\gamma$  spectrum of  $\text{Te}^{117}$  obtained via the reaction  $\text{Sn}^{114}(\alpha, n)$ . The measurements were made with a scintillation gamma spectrometer with NaI(Tl) crystal measuring 40 x 40 mm. The energy resolution for the 662-keV  $\gamma$  line was 8.5%. Careful graduation of the crystal efficiency was carried out in the energy range 265 - 2760 keV. The following values were obtained for the energies (in keV) and for the relative  $\gamma$ -line intensities:  $730 \pm 10$  (100),  $940 \pm 15$  ( $4.5 \pm 3$ ),  $1080$  ( $5.5 \pm 1.2$ ),  $1310 \pm 20$  ( $14 \pm 2$ ),  $1740 \pm 25$  ( $16.5 \pm 1.5$ ),  $2230 \pm 25$  ( $17.4 \pm 2$ ). The data obtained confirm in general outline the decay scheme proposed by Fink et al. (RZhFiz, 1962, 7B257). N. Voinova. [Translation of abstract]

SUB CODE: 18, 20

Card 1/1 *ldh*

ACC NR: AP7007579

SOURCE CODE: UR/0089/66/020/001/0057/0059

AUTHOR: Krasnov, N. N.; Daidriyev, P. P.

ORG: none

TITLE: Sup 57 Co yields in cyclotron

SOURCE: Atomnaya energiya, v. 20, no. 1, 1966, 57-59

TOPIC TAGS: cyclotron, Mossbauer effect, cobalt, radioisotope

SUB CODE: 20, 18

ABSTRACT: There is a great demand for  $^{57}\text{Co}$  in connection with the many studies on the Mossbauer effect. Three methods of preparation of this isotope by nuclear reactions were examined. They include: 1. irradiation of iron by deuterons,  $^{56}\text{Fe}(d,n)^{57}\text{Co}$ ; 2. irradiation of nickel by protons,  $^{58}\text{Ni}(p,2p)^{57}\text{Co}$ ;  $^{58}\text{Ni}(p,pn)^{57}\text{Ni} \rightarrow ^{57}\text{Co}$ ;  $^{58}\text{Ni}(p,2n)^{57}\text{Cu} \rightarrow ^{57}\text{Ni} \rightarrow ^{57}\text{Co}$ ;  $^{60}\text{Ni}(p,\dots)^{57}\text{Co}$ ; and 3. irradiation of Ni by  $\alpha$  particles,  $^{58}\text{Ni}(\alpha,\alpha p)^{57}\text{Co}$ ;  $^{58}\text{Ni}(\alpha,\alpha n)^{57}\text{Ni} \rightarrow ^{57}\text{Co}$ . The dependence of the total  $^{57}\text{Co}$  yield on the total energy of the particles was examined by determining the absolute  $^{57}\text{Co}$  activity of specially shielded iron and nickel foils, on the basis of the photopeak of the 126-keV  $\gamma$  line. Activity measurements were also made on Co separated from the targets a few months after the irradiation. In cyclotron preparation of isotopes, in addition to the actual yield, the permissible power level of the incident beam must also be taken into account; therefore, the results were expressed not only in  $\mu\text{C}/\mu\text{amp}\cdot\text{hr}$  units, but also in  $\mu\text{C}/\text{kwh}$ . It was found that irradiation of

Card 1/2

UDC: 539.172.12  
09221513

ACC NR: AP7007579

nickel with 22-Mev protons is the most efficient reaction for preparing  $^{57}\text{Co}$ . In the proton irradiation of nickel,  $^{55}\text{Fe}$  is also formed according to the reaction  $^{58}\text{Ni}(p, n)^{58}\text{Co} \rightarrow ^{55}\text{Fe}$ ; it may be removed from the mixture. Irradiation of Mn with  $\alpha$  particles yields a product containing relatively large amounts of  $^{56}\text{Co}$  and  $^{58}\text{Co}$ ; similar difficulties arise in the irradiation of Fe with  $\alpha$  particles and of Ni with deuterons. The present work was carried out on 1.5m cyclotron at the Physical Energy Institute, of the USSR State Committee on Atomic Energy Use. Orig. art. has: 1 figure, 1 formula and 1 table. [NA]

Card 2/2

KRASNOV, Nikolay Pavlovich; SEMYKIN, S.F., nauchn. red.

[Finishing of large-panel apartment houses and public buildings] Otdelka krupnopanel'nykh zhilykh i obshchestvennykh zdani. Moskva, Stroiizdat, 1965. 166 p.  
(MIRA 18:12)

KRASNOV, Nikolay Petrovich; PANCHENKO, M.F., red.izd-va; SALAZKOV, N.P.,  
tekh.red.

[Business accounting in the lower echelons of repair and  
construction organizations] Khozraschet v nizovykh podrazde-  
leniyakh remontno-stroitel'nykh organizatsii. Moskva, Izd-vo  
M-va kommun.khoz.RSFSR, 1960. 124 p. (MIRA 13:9)  
(Construction industry--Finance)



KRASNOV, Nikolay Petrovich; SHRAYEMAN, M.G., nauchn. red.;  
GLAZUNOVA, Z.M., red.; KASIMOV, D.Ya., tekhn. red.

[Business accounting in construction] Khoziaistvennyi  
raschet v stroitel'stve. Moskva, Gosstroizdat, 1963. 64 p.  
(MIRA 17:2)

KRASNOV, Nikolay Petrovich; DUMASHOV, Yu.F., red.; BAKHTIYAROVA, R.Kh.,  
red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Finishing of rooms during repair] Otdelka komnat pri remonte; ri-  
sunki dlia izgotovleniia trafaretov. Izd.2., ispr. i dop. Moskva,  
Izd-vo M-va kommun. khoz. RSFSR, 1961. 198 p. (MIRA 14:8)  
(Interior decoration)

KRASNOV, Nikolay Petrovich; MAKOVEN, Mikhail Danilovich; KOL'GUNENKO, Inna Ivanovna; KRASNOV, Yuriy Matveyevich; CHEREPAKHINA, Anna Nikolayevna; ZAV'YALKIN, N.P., red.; BAKHTIYAROVA, R.Kh. red. izd-va; BOLOTINA, A.V., red. izd-va; ZAYSHLYAYEVA, I.M., red. izd-va; SMIRNOVA, R.N., red. izd-va; NERONOVA, M.D., red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Home and family life] Dom i byt. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1962. 315 p. (MIRA 15:11)  
(Home economics)

VASIL'YEVSKIY, V.S.; KRASNOV, N.V.; MUKHOVATOV, V.S.

Drum-type camera for vacuum ultraviolet. Prib. i tekhn. eksp. 6  
no.2:138-139 Mr-Ap '61. (MIRA 14:9)  
(Photography, High-speed--Equipment and supplies)

KRASNOV, O.

KRASNOV, O., inzh.

Portable temporary quarters. Ger. 1 sel'.stroi. no.5:12

My '57.

(MIRA 10:10)

(Buildings, Prefabricated)

KRASNOV, O.  
KRASNOV, O., inzh. (Stalingrad)

Experience in planning at lower levels. Gor.1 sel.stroi.

no.8/9:24 Ag-S '57.

(MIRA 10:12)

(Stalingrad--Construction industry--Accounting)

KRASNOY, P.M.

Using science and technology motion pictures in promoting  
advanced production practices. NTI no.8:17-18 '65.

(MIRA 18:9)

ZUYEV, S.S.; KRASHOV, P.V.

Equalizing the seam structure in welded brass pipe. Trudy  
Giprotevetmetobrabotka no.24:247-257 '65. (MIRA 18:11)



KRASNOV, P.V., inzh.

Circular saw for longitudinal sawing of small timber.  
Der. prom. 14, no.7:24-25 J1 '65. (MIRA 19:1)

ZUYEV, S.S., kand. tekhn. nauk; KRASHOV, P.V., inzh.; SCHASTLIVTSEV,  
N.S., inzh., SHIKHOLEYEV, A.I., inzh.

Radio frequency welding of nonferrous metal pipe. Avtom. svar.  
17 no.11:78-81 N '64 (MIRA 18:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov (for Zuyev).
2. Kirovskiy zavod obrabotki tsvetnykh metallov (for Krasnov, Schastlivtsev, Shikhaleyev).

ERASNOV, P.V., inzhener; KRASNOYARSKIY, V.M., inzhener.

Shutting off small and middle-sized gushers. Bezop.truda v prom.

I no.9:31-32 S '57.

(MLRA 10:9)

(Petroleum industry--Fires and fire prevention)

KRASNOV, P.V., inzh.

Machine for the manufacture of panel parquet. Der. prom. 13  
no.2:28-29 F '64. (MIRA 17:3)

KRASNOV, S.; LOGUTOV, P.

Work of interfarm organizations of the R.S.F.S.R. Zhil.stroi,  
no.10:1 '58. (MIRA 12:6)

1. Glavnyy inzhener Glavkolkhoz-4 stroya (for Krasnov). 2. Zamestitel'  
nachal'nika Glavkolkhozstroya (for Logutov).  
(Farm buildings)

KRASNOV, S., inzh.

Book reviews and bibliography ("Livestock buildings" by B.I.  
Nikandrov. Reviewed by S.Krasnov). Sel'.stroï. 14 no.8:31  
Ag '59. (MIRA 12:12)  
(Farm buildings) (Nikandrov, B.I.)

KRASNOV, S.

Enlarge and consolidate the supply bases of interfarm  
building organizations. Sel'. stroi. 15 no.3:14-16 Mr '60.  
(MIRA 16:2)

1. Glavnyy inzhener Upravleniya po stroitel'stvu v kolkhozakh  
Ministerstva sel'skogo khozyaystva RSFSR.  
(Collective farms—Interfarm cooperation)  
(Building materials industry)

KRASNOV, S., inzhener.

Economic effectiveness of poultry processing in meat combines. Mias.  
ind. SSSR no.2:37-39 '57. (MLRA 10:5)  
(Poultry industry)



*KRASNOV, S.*  
KRASNOV, S.

Economic effectiveness of glue and gelatin production in  
specialized plants. *Misc. Ind. USSR* 28 no.4:45 '57. (MIRA 10:7)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy  
promyshlennosti.

(Glue) (Gelatin)

KRASNOV, S. ekonom. nauk

Role of the economist in a meat combine. Mias. ind. SSSR 30  
no.3:41-42 '59. (MIRA 12:9)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy  
promyshlennosti.  
(Meat industry)

KRASNOV, S., kand.ekonom.nauk; ODINTSOVA, G., inzh.

Economic justification of new techniques. Mias.ind.SSSR 30  
no.6:38-39 '59. (MIRA 13:4)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy  
promyshlennosti.  
(Moscow--Meat industry--Management)

KRASNOV, S., kand.ekonom.nauk; KOLCHIN, L., inzh.

Efficient use of transportation. *Mas.ind.SSSR* 31 no.2:43-44  
'60. (MIRA 13:8)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy  
promyshlennosti.  
(Cattle--Transportation)

KRASNOV, S. K.

USSR.

Alteration of the activity of central nervous system during  
chronic exposure to sodium fluoride. (Author: Zina  
Vladimirovna Dopyeva, Institute of Physiology, USSR  
Academy of Sciences, Moscow, U.S.S.R.)  
Subcutaneous administration of 2% sodium fluoride (10 mg/kg)  
induced changes in the activity of the central nervous system  
characterized by a continuous partial inhibition of pre-  
viously conditioned conditioned reflexes, natural reflexes to  
food, followed by periods of unconditional reflexes. The  
duration of the changes of reflexes considerably later than  
the observed inhibition of the activity of the central nervous  
system.

I. A. Mironov

*K* KRASNOV, S.K.  
KRASNOV, S.K. (Saratov)

Plethysmographic method on animals. Zhur.vys.nerv.deiat. 4 no.4:  
586-590 J1-Ag '54. (MIRA 8:3)  
(PLETHYSMOGRAPHY,  
technic in animals)

USSR/Medicine - Higher Nervous Activity

FD-2793

Card 1/1                      Pub 154-14/19

Author                        : Krasnov, S. K., Saratov

Title                         : Change in higher nervous activity on repeated poisoning  
                                 of animals with phosphorus

Periodical                    : Zhur. vys. nerv. deyat. 5, 271-280, Mar-Apr 1955

Abstract                     : Investigated changes in the higher nervous activity of  
                                 seven rats resulting from repeated subcutaneous injections  
                                 of toxic doses of phosphorus, with periods of complete re-  
                                 covery of higher nervous activity between doses. Tables.  
                                 Three references, all USSR (all since 1940).

Institution                    :

Submitted                     : November 10, 1954

KRASNOV, S. K. Cand Med Sci -- (diss) "Disturbances of higher nervous activity under the influence of acute and chronic poisoning of animals (white rats) by phosphorus. (Experimental study)." Mos, 1957. 11 pp 20 cm. (Inst of Higher Nervous Activity, Acad Sci USSR). 120 copies. (KL, 22-57, 107)



USSR/Pharmacology. Toxicology. Toxicology.

V

Abs Jour : Ref Zhur-Biol., No 8, 1958, 37749

Author : Krasnov S. K.

Inst : Not given

Title : Disturbance of the Higher Nervous Functions in Chronic Intoxication of Animals (White Rats) by Phosphorus. (Narusheniye vysshey nervnoy deyatelnosti pri khronicheskom otravlenii zhivotnykh (belykh krys) fosforom).

Orig Pub : Zh. vyssh. nerv. deyat-nosti, 1957, 7, No 4, 600-607

Abstract : The method of motor food conditioned reflexes was used in experiments conducted on 19 rats. P in 0.01% solution of apricot oil was administered by mouth in doses of 0.03 mg each during the first 2 days, and then daily in doses

Card 1/2

USSR/Pharmacology. Toxicology. Toxicology.

V

Abs Jour : Ref Zhur-Biol., No 8, 1958, 37749

Abstract : of 0.015 mg each for a period of 30 days. It was established that the protracted administration of P evoked a strong process of irritability; in addition a passive inhibitory process expressed in the appearance of phase conditions in the upper area set in. Under the influence of P the motility of the irritation process was reduced, and that of the inhibition increased. Greatest modifications in the conditioned reflex action was observed in animals in which the irritation process predominated over the inhibition processes in the central nervous system.

Card 2/2

USSR/Human and Animal Physiology. Nervous System.  
Higher Nervous Activity. Behavior.

T

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93616.

Author : Krasnev, S.K.

List :

Title : Some Characteristic Changes in the Level of Stimulation of  
the Cortex of the Cerebral Hemispheres.

Orig Pub: Zh. vyssh. nervn. deyat-sti, 1957, 7, No 6, 906-911.

Abstract: In order to establish the importance of "seasoned"  
portions (SP) of food on all the conditioned re-  
flexes in the experiment, the conditioned reflexes  
of rats were observed by Kotlyarevsky's method after  
preliminary reinforcement with 0.3, 1.5, and 4.5 g of  
biscuit. In the first case only the first CR was ob-  
served, in the second -- all CR were increased and

Card :1/2

104

USSR/Human and Animal Physiology. Nervous System.  
Higher Nervous Activity. Behavior.

T

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93616.

differentiations were freed, in the 3rd some conditioned reflexes to certain stimuli were left out, and the remaining CR were considerably reduced. Obviously, the level of excitability of the cortex changed in accordance with the amount of food seasoning, so that an excessive use of seasoning led to a decrease in the conditioned reflexes because of dominant inhibitory influences from the gastric mucosa. -- Ye. I. Plonskaya.

Card : 2/2

KRASNOV, S. K.

"Disturbance of the Most Intense Nervous Activity Under the Influence of An Acute or Chronic Phosphorus Intoxication of Animals (Albino Rats)."

dissertation defended for the degree of Candidate of Medical Sciences at the Inst. for Higher Nervous Activity.

Defense of Disseration ~~XX~~ (Jan-Jul 1957)  
Sect. of Biological Sciences  
Vest. AN SSSR, 1957, v. 27, No. 12, pp. 115-117

KRASHOV, S.K., assistant

Characteristics of changes in the functional level of the activity  
of cortical cells. Uch. zap. Sar. gos. pedagog. inst. no.28:78-81 '57.  
(MIRA 11:7)

(Conditioned response)

AUTHOR: Krasnov, S.M., Engineer

SOV/122-59-2-31/34

TITLE: On the Application of Extruded Tubes and Special Sections in Small Batch Production (O primenenii pressovannykh trub i spetsial'nykh profiley v melkoseriynom proizvodstve)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 2, pp 83-84 (USSR)

ABSTRACT: Referring to a paper by I.F.Golovnev in Vestnik Mashinostroyeniya, 1958, Nr 5, the present author supports the need to make wider use of extrusion stock. However, most engineering plants have mechanical and hydraulic presses rather than horizontal forging machines considered by Golovnev. A variety of tubular components is divided into typical groups (hollow cylinders, internally and externally stepped hollow cylinders, flanged hollow cylinders and cupshaped components). In each group a forging die with interchangeable inserts covers the whole range of detail

Card 1/2

SOV/122-59-2-31/34

On the Application of Extruded Tubes and Special Sections in Small  
Batch Production

designs within a certain range of overall sizes.  
Experience with brass components has encouraged this  
approach. There are 6 figures.

Card 2/2



VASIL'YEV, N.; DENIN, D.; YEROKHOVETS, A.; ZHURAVLEV, V.;  
ZHURAVLEVA, R.; KANDYBA, Yu.; KOLOEKOVA, G.; KRASNOV, V.;  
KUVSHINNIKOV, V.; MATUSHEVSKIY, V.; PLEKHANOV, G.;  
SHIKALOV, L.; SUKHOVA, G.M., red.; RUBINOVA, L.Ye.,  
tekhn. red.

[On the trail of the Tunguska catastrophe] Po sledam  
Tungusskoi katastrofy. Tomsk, Tomskoe knizhnoe izd-vo,  
1960. 157 p. (MIRA 16:10)  
(Podkamennaya Tuguska Valley--Meteorites)

KRASNOV, V.

Seminar on efficient compensation of reactive power and  
increase of the power factor in industrial enterprises.  
Prom. energ. 21 no. 1:54 Ja '66 (MIRA 19:1)

L 62574-65

ACCESSION NR: AP5019263

UR/0356/65/000/007/0034/0037  
637.133.1

AUTHORS: Krasnov, V. (Corresponding member); Syrovatka, V. (Candidate of technical sciences)

TITLE: Cooling of milk

SOURCE: Tekhnika v sel'skom khozyaystve, no. 7, 1969, 34-37

TOPIC TAGS: cooling, cooling water system, milk, OUM 1000 milk cooler, VO 1000 milk cooler, IP 56 compressor, TRDK 2 thermoflask, RTU 1 thermoflask

ABSTRACT: The effectiveness of milk cooling equipment used in the farms is discussed. The machinery under consideration includes two-section pipe coolers, two-section cylindrical coolers, the OUM-1000 purifier-cooler, and the newly developed VO-1000 bath with an IP-56 compressor unit and a freon cooling system (see Fig. 1 on the enclosure). Because the first two types operated only with tap water, their use was limited to cold seasons. The OUM-1000 machine was equipped with an attachable freon cooler for circulating water. The VO-1000 machine produced a rapid cooling and assured milk preservation for 24 hours, but it was expensive and required constant supervision of a trained mechanic due to the frequent breakage of

Card 1/3

L-62574-65

ACCESSION NR: AP5049263

the compressor and cooling units. An attempt to run this machine with artesian water failed because of insufficient cooling and high water expenditure. It is recommended to boost the production of artificial ice and to introduce a two-step cooling operation with the O-2-1000 machines (the first stage with artesian and the second stage with ice-water circulation). Orig. art. has: 3 tables and 2 figures.

ASSOCIATION: VASH

SUBMITTED: 00

ENCL: 01

SUB CODE: 15

NO REF SOV: 000

OTHER: 000

60

Card 2/5

1. 62574-65  
ACCESSION NO: AP5019263

PHOTOGRAPH OF

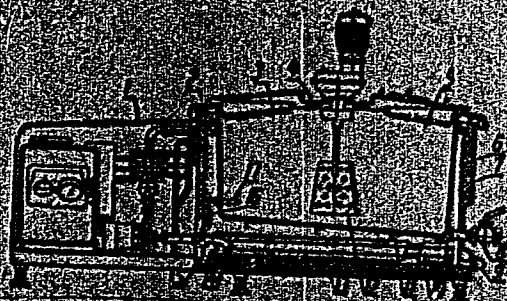


Fig. 1. Scheme for VO-1000 bath. 1- guarding frame; 2- sprinkler; 3- tray; 4- bridge; 5- internal bath; 6- external bath; 7- lining; 8- outlet; 9- outlet nozzle; 10- evaporating batteries; 11- support; 12- mixer; 13- insulation; 14- mesh filter; 15- framework; 16- thermoflask TFDK-3; 17- thermoflask TFDK-1

Card 3/3 *1/10*

ACC NR: AP7002973 (A) SOURCE CODE: UR/0413/66/000/024/0069/0069

INVENTOR: Kotrelev, V. N. ; Ostroumov, B. D. ; Opolovenkov, A. F. ; Krasnov, V. A.

ORG: none

TITLE: Method of preparing a chemical composition from fluoroplast 40.  
Class 39, No. 189571

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 24,  
1966, 69

TOPIC TAGS: plastic, teflon, polytetrafluoroethylene, fluorocarbon ~~plastic~~ resin  
~~fluoroplast-40~~

ABSTRACT: An Author Certificate has been issued for a method of preparing a composition based on fluoroplast-40 (an unidentified fluorocarbon plastic). The technological properties of the composition are improved by adding up to 10% of polytetrafluoroethylene to the fluoroplast-40 during processing. [Translation]

SUB CODE: 11/SUBM DATE: 18Dec64/

[NT]

Card 1/1

UDC: 678.743.41-139

DAMASKIN, B.I., doktor tekhn. nauk, prof.; LEVIN, V.I., kand. tekhn. nauk,  
starshiy propodavatel'; KRASNOY, V.A., inzh.

Loading of the shafts of a Class 97 sewing machine. Nauch. trudy  
MTILP no.28:219-224 '63. (MIRA 17:11)

1. Kafedra detalay mashin Moskovskogo tekhnologicheskogo Instituta  
legkoy promyshlennosti.

KRASHOV, V.A.

~~On B.P. Novikov's article "Some problems in the epidemiology of cowpox in man." Zhur.mikrobiol.epid. i immun. 30 no.5:138~~  
My '59. (MIRA 12:9)

1. Iz Vol'skoy mezhrayonnoy veterinarno-bakteriologicheskoy laboratorii.

(VACCINIA)



VORONTSOV, L.; VLADIMIROV, S.; KRASNOV, V.A., spets. red.;  
MELAKHOV, P.N., red.

[Science, 1961; through the Exhibition pavilions] Nauka  
god 1961; po pavil'onam Vystavki. Moskva, 1961. 65 p.  
(MIRA 17:8)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR.

KRASNOV, V.A.

Pavilions of the Academy of Sciences of the U.S.S.R. at the  
Exhibition of Achievements of the National Economy of the  
U.S.S.R. in 1964. Inform. biul. VDNKH no.2:2-4 F '64.

(MIRA 17:8)

1. Glavnyy metodist ob\*yedinennykh pavil'onov AN SSSR na  
Vystavke dostizheniy narodnogo khozyaystva.

KRASNOV, V.A.

Semiconductors have a future. Inform. biul. VDNKH no.10:30-32  
0 '64 (MIRA 18:1)

1. Glavnyy metodist pavil'ona "Fizika" AN SSSR na Vystavke  
dostizheniy narodnogo khozyaystva SSSR.

KRASHOV, V. D.

Agriculture

Organization of swine-breeding on collective farms, Sol'khozgiz, 1952

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

ANAN'YEVA, L.F.; KRASNOV, V.D.; ALTUNINA, T.M.; MAKAROV, N.P., doktor  
ekon. nauk, prof., otv. red.

[Ways of developing agriculture in the Altai; problems in the  
distribution and specialization of collective farm production]  
Puti razvitiia sel'skogo khoziaistva Altaia; voprosy razme-  
shcheniia i spetsializatsii kolkhoznogo proizvodstva. Moskva,  
Izd-vo Akad. nauk SSSR, 1962. 214 p. (MIRA 16:2)

1. Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh  
sil (Altai Territory—Agriculture—Economic aspects)

LEMESHEV, M.Ya.; LAGUTIN, N.S.; GREKULOV, L.F.; KRASNOV, V.D.; PRONIN, A.A.; YAKOVLEVA, T.V.; ANAN'YEVA, L.F.; KOLOSOVA, Ye.Ya.; MURASHKO, Yu.V.; GABIDULLIN, V.M.; POPOV, N.I.; POPOV, N.M.; STUDENKOVA, N.M.; SMYSLOVA, A.S.; PANIN, N.S., red.; PANIN, N.S., red.; GERASIMOVA, Ye.S., tekhn.red.

[Methods for creating an abundance of agricultural products in the U.S.S.R.] Puti sozdaniia izobilii sel'sko-khoziaistvennykh produktov v SSSR. Moskva, Ekonomizdat, 1963. 317 p. (MIRA 16:6)

1. Sektor ekonomicheskikh problem sel'skogo khozyaystva Nauchno-issledovatel'skogo ekonomicheskogo instituta Gosplana SSSR (for all except Panin, N.S., Panin, N.S., Gerasimova).  
(Farm produce)

KRASNOV, V.I.

CHOCHIA, N.G.; KRASNOV, V.I.; IPATOVA, Z.N.

Minusinsk Basin. Trudy VNIGRI no.96:215-234 '56. (MLRA 10:1)  
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231. An optical investigation of the stress condition of an anisotropic plate subjected to a concentrated force. V. M. KRASNOV AND A. V. STEPANOV, *Zh. Eksp. i teo. Fiz.*, 25, No. 1(7) 98-106 (1953) in Russian.

See also Abstr. 3739 (1953). Photoelastic methods were used to determine the stressed state in an anisotropic plate cut out from a single crystal of the 60 mol-% TiBr/40 mol-% TiI alloy, so that the plane of the plate coincided with the cube face, a concentrated force being applied along the cube axis. The apparatus used is described in some detail. A fair agreement was found to exist between experimental results and values calculated from the moduli of elasticity.

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124-57-2-2436

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 132 (USSR)

AUTHORS: Shikhobalov, S. P., Krasnov, V. M., Maksutova, T. D., Tseyts, V. V., Edel'shteyn, Ye. I.

TITLE: Experimental Investigation of the Stresses in a Hydraulic turbine Blade (Eksperimental'noye issledovaniye napryazhennogo sostoyaniya lopasti vodyanoy turbiny)

PERIODICAL: V sb.: Vopr. prochnosti lopastey vodyanoy turbiny. Leningrad, Izd-vo LGU, 1954, pp 174-216

ABSTRACT: Presentation of an experimental investigation of the stresses prevailing in a hydraulic turbine blade subjected to the action of a pressure uniformly distributed over its working surface. The investigation was conducted by means of the photoelastic method, wherein the model was "frozen" and subsequently sectioned off. The model was made of bakelite; the bakelite resin was cast into a mold made of a readily fusible alloy. The uniform pressure was exerted by means of a system of glass rods located vertically on the working surface of the blade. In the determination of the stresses due to the edge effect, use was made of data on the "edge effect" in a bakelite wedge having a thickness equal

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Experimental Investigation of the Stresses in a Hydraulic-turbine Blade

to the thickness of the blade profile and subjected to the same thermal and other conditions as the blade model, but free of any external forces. It is shown that in the bakelite used an "edge effect" arises as a result of desiccation, i. e., the separation of component substances, mainly water and phenol, and that a working medium may be found in which the "edge effect" does not occur. In a practical attempt to avoid any "edge effect" the model was loaded in a water-glycerol mixture and was protectively coated with latex. The interpretation of the stress conditions in the blade was performed according to the formulas of three-dimensional photoelasticity. The results lead to the conclusion that the blade, considered as a shell with variable thickness, is subjected to pure moment stresses. A comparison with L. M. Kachanov's solution (Rzh Mekh, 1955, abstract 906) is also adduced.

V. M. Krasnov

1. Turbine blades--Stresses 2. Stress analysis

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