

Production of Multi-Charged Particles on  
Photographic Emulsion Nuclei by 280-mev  
 $\pi^+$ -Mesons

76975  
SOV/56-37-6-15/55

The criterion of the subdivision of these classes was analogous to that of V. I. Ostroumov, N. A. Perfilov, and R. A. Filov (Zhur. eksp. i teoret. fiz., 36, 367, 1959), O. V. Lozhkin, N. A. Perfilov (ibid., 31, 913, 1956), and O. V. Lozhkin (Dissertation, Radium Inst. Acad. Sciences, USSR, Leningrad, 1957). In the case of heavy nuclei, the relative yield of fragments of different charges was nearly independent of the energy of the bombarding particles. The comparison of the experimental data with the theoretical data showed that the particles responsible for the formation of fragments are protons produced in the absorption of  $\pi^+$ -mesons by quasi-deuteron pairs and also recoil nucleons produced in the scattering of  $\pi$ -mesons on separate nucleons of the nucleus. The fragmentation cross sections for heavy and light particles were found to be, respectively:  $(1.4 \pm 0.5)$  mbn, and  $(0.56 \pm 0.3)$  mbn. The ratio of

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$\pi^+$  - Mesons

the probability of absorption according to scheme  
 $\pi^+ + d \rightarrow p + p$  ( $w_d$ ) and scheme  $\pi^+ + N \rightarrow \pi + N$  ( $w_p$ ),  
( $w_d/w_p = w_p = 0.6$ ), for  $\pi^+$ -mesons at 280-mev energy

level, accorded with the results of other investigations  
(G. A. Blinov, M. F. Lomanov, Ya. Ya. Shalamov, V. A.  
Shevanov, and V. A. Shchegolev, Zhur. eksp. i teoret.  
fiz., 35, 880, 1958; G. E. Belovitskiy, ibid., 35,  
838, 1958). The experimental data did not absolutely  
support the probability of the absence of direct ejection  
of fragments by mesons; however, this probability was a  
small one. S. A. Tartakovskaya and N. A. Perfilova  
made contributions in the course of this work. There  
are 9 figures; and 13 references, 8 Soviet, 1 Italian,  
1 French, 3 U.S. The U.S. references are R. Wolfgang,  
E. Baker, A. Caretto, J. Cumming, G. Friedlander, J.

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Production of Multi-Charged Particles on  
Photographic Emulsion Nuclei by 280-meV

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$\pi^+$ -Mesons

Hudis, Phys. Rev., 103, 394, 1956; R. Wolfgang, G. Fried-  
lander, Phys. Rev. 96, 190, 1954; M. Blau, A. Oliver,  
Phys. Rev., 102, 489, 1956.

ASSOCIATION: Radium Inst. Acad. Sciences USSR (Radievyy Institut  
Akademii nauk SSSR)

SUBMITTED: July 21, 1959

Card 4/4

PAVLOV, Yu.V.; KUKATOV, N.I.

Reconstruction of a continuous heating furnace. Metallurg 9 no.1:  
31-32 Ja '64 (MIRA 18:1)

1. Yuvenergometalurgprom i Konstantinovskiy metallurgicheskiy  
zavod.

PAVLOV, Yu. V. inzh.

Rope containers for piece goods. Mekh. i avtom. proizv. ] no.  
5:22-23 '62.

(MIRA 16:5)

(Loading and unloading--Equipment and supplies)

2001

S/108/61/000/007/003/007  
D204/0305

9.1000  
AUTHOR:

Pavlov, Yu. V., Member of the Society (see Association)

TITLE:

A method of determining antenna losses

PERIODICAL:

Radiotekhnika, no. 7, 1961, 20-22

TEXT: The author suggests one of the possible methods of determining analytically losses in an antenna due to dispersion and thermal losses. For real antennae with thermal and dispersion losses the noise signal temperature at the output of an antenna matched to the receiver is  $T_n = (1 - \alpha) T_a + \alpha T_0$  (5)

where  $\alpha$  - the heat loss coefficient,  $T_0$  - temperature of the antenna material,  $1 - \alpha$  - the antenna efficiency. The author eventually obtains the relationship  $T_n = (1 - \alpha)(1 - \beta) \bar{T}_m + (1 - \alpha) \beta \bar{T}_s + \alpha T_0$  (6)

which can be used for determining antenna losses. To do so the author suggests the use of two standards of thermal radiation: the radiation from an anti-location screen having the absorption coefficient near to unity and the radiation from the sky in the zenith  
Card 1/4

A method of determining antenna losses S/108/61/000/007/003/007  
 D204/D305

region whose temperature can be calculated theoretically for a given wavelength. The procedure of determining losses would then be as follows: the screen covered with glossy material is placed at a distance from the antenna within the main lobe of radiated power. For horizontal radiation it can be assumed that side-lobes are symmetrical with respect to earth and the sky so that the temperature of the signal (6) reflected from the screen is equal to

$$T_{s1} = (1 - \alpha)(1 - \beta)T_{e1} + (1 - \alpha) \frac{\beta}{2} \bar{T}_{sky} + (1 - \alpha) \frac{\beta}{2} \bar{T}_{earth} + \alpha T_0 \quad (7)$$

where  $T_{e1}$  - the temperature of the screen coating,  $\bar{T}_{sky}$  - the average temperature of the sky,  $\bar{T}_{earth}$  - the average temperature of the earth. After measuring the signal temperature  $T_{s1}$  the absorbing material of the screen is replaced by a reflecting one and the screen is tilted  $45^\circ$ . If the dispersion losses are not taken into account i.e. if  $\beta = 0$ , it is easy to obtain from (7) the formula given by V.S. Troitskiy (Ref. 2: Radiotekhnika i elektronika, 1, No. 5, 1956)  $T_s = (1 - \alpha) T_{e1} + \alpha T_0$ . The evaluation of losses according to this

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D206/0305

A method of determining antenna losses

formula gives excessively high non-realistic figures ( $\lambda = 40 \pm 60\%$ ). In many problems of passive radio location it is required to evaluate radio thermal contrasts. For contrasts of two objects formulae

$$T_{s1} = (1 - \alpha)(1 - \beta)T_1 + (1 - \alpha)\frac{\lambda}{2}T_{sky} + (1 - \alpha)\frac{\lambda}{2}T_{earth} + \alpha T_0 \quad (11)$$

and

$$T_{s2} = (1 - \alpha)(1 - \beta)T_2 + (1 - \alpha)\frac{\lambda}{2}T_{sky} + (1 - \alpha)\frac{\lambda}{2}T_{earth} + \alpha T_0 \quad (12)$$

are used in which  $T_1$  and  $T_2$  are the equivalent black body radiation temperature of the first and second objects respectively. Determining the radio thermal contrast from (11) and (12) expression

$$\Delta T = T_1 - T_2 = \frac{T_{s1} - T_{s2}}{(1 - \alpha)(1 - \beta)} = \frac{T_1 - T_2}{1 - \gamma} \quad (13)$$

is obtained where  $\gamma = \alpha + \beta - \alpha\beta$  is the total antenna losses. It can be seen from (13) that in determining radio thermal contrasts it is necessary to take into account coefficients  $\alpha$  and  $\beta$ . There are 1 figure and 2 references. 1 Soviet bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows:  
Card 3/4 P. G. Z. Nezzer, Astrophys. 46, 234, 1958



A method of determining antenna losses S/108/61/000/007/003/007  
D204/D305

ASSOCIATION Obshchestvo radioelekhniki i elektrosvyazi im. A. S. Popova (Radio Engineering and Electrical Communications Society im. A. S. Popov) [Abstracter's note: name of association taken from first page of journal]

SUBMITTED July 13, 1960 (initially)  
March 13, 1961 (after revision)

Card 4/4

PAVLOV, Yu.V., inzh. (Moskva-Irkutsk); KHRAKOVSKIY, Ye.M., inzh.  
(Moskva-Irkutsk)

From Moscow to the shores of Lake Baikal. Elek.i tepl.tiaga 5  
no.9:9-12 S '61. (MIRA 14:10)  
(Electric railroads)

IVANGVA, N.S.; OSTROUMOV, V.I.; PAVLOV, Yu.V.

Production of multicharge particles on emulsion nuclei under the  
action of 280 Mev.  $\pi^+$ -mesons. Zhur.eksp.i teor.fiz. 37 no.6:  
1604-1612 D 159. (MIRA 14:10)

1. Radiyevyy institut AN SSSR.  
(Photography particle track) (Mesons)

L 22460-66 EWT(d)/EWT(m)/T/EWR(h)/EWP(L) DJ

ACC NR: AP6002544 (A)

SOURCE CODE: UR/0286/65/000/023/0043/0043

AUTHORS: Pavlov, Yu. V.; Soskov, O. D. 22  
B

ORG: none

TITLE: Load-lifting transom. Class 35, No. 176669

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 43

TOPIC TAGS: crane, cargo handling equipment, loading equipment, hoisting equipment, transporting equipment

ABSTRACT: This Author Certificate presents a load-lifting transom<sup>14</sup>, for example, for lifting and transporting a load in a container which has two arms with load hooks at their ends mounted on its frame. To obtain compact construction and maximum utilization of transporting space during package loading and unloading under cramped conditions, the load hook is in the form of a double-shouldered lever pinned through a lever to the push-rod of a hydraulic cylinder mounted on the frame (see Fig. 1). //

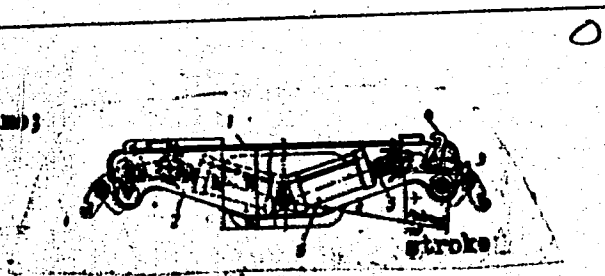
Card 1/2

UDC: 621.86.061.5:621.868.277.5

I 22460-66

ACC No. AF6002544

Fig. 1. 1 - Load-lifting transom; 2 - frame;  
3 - lever; 4 - hook;  
5 - hydraulic cylinder push-rod;  
6 - hydraulic cylinder.



Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 31Aug64

Card 2/2 BK

1. [Distant ...] Dorogobuzhskoye ...  
[Distant ...] Dorogobuzhskoye ...  
[Distant ...] Dorogobuzhskoye ...

BUSYGIN, Ivan Vasil'yevich, inzh.; PAVLOV, Yuriy Vladimirovich, inzh.;  
PAVLVSHKOV, E.D., inzh., red.; VERINA, G.P., tekhn. red.

[Organization of shop repair of locomotives; from the experience  
of the Michurinsk Locomotive Repair Shop] Organizatsiia  
zavodskogo remonta parovozov; iz opyta Michurinskogo  
parovozoremontnogo zavoda. Moskva, Gos. transp. shkol-dor. izd-vo.  
1958. 55 p. (MIRA 11:12)  
(Michurinsk--Locomotives--Maintenance and repair)

PAVLOV, Z.

Description - Leningrad

Face of the revolution. Mol. kolkh., 19, No. 8, 1952

Monthly List of Russian Accessions, Library of Congress October 1952 UNCLASSIFIED



PAVLOV, Z.

LENINGRAD - DESCRIPTION

Pace of the revolution. Mol. kolkh. 19 no. 8, 1952

Monthly List of Russian Accessions, Library of Congress October 1952 UNCLASSIFIED

PAVLOV, Z. P.

PAVLOV, Z. P. -- "Experimental Investigation of the Effect of the Loading Cycle on Fatigue Breakage of Spur Gear Teeth." Sub to Jun 52, Central Sci Res Inst of Technology and Machine Building (TsNITMash) (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Vechernaya Moskva, January-December 1952

PAVLOV Z. P.

KEDRINSKIY, Vasilii Nikolayevich; PISMANIK, Kalman Matveyevich; POLOTSKIY,  
M.S., kand. tekhn. nauk, retsenzent; PAVLOV, Z.P., red.; ML'KIND,  
V.D., tekhn. red.

[Machines for cutting bevel gears] Stanki dlia narezaniia koniche-  
skikh zubchatykh koles. Moskva, Gos. nauchno-tekhn. izd-vo  
mashinostroit. lit-ry, 1958. 534 p. (MIRA 11:9)  
(Gear-cutting machines)

25(2)

PAVLOV, I.

SOV/2095

PHASE I BOOK EXPLOITATION

Konferentsiya po voprosam rascheta, konstruirovaniya i issledovaniy zubchatykh peredach i peredach gibkoy svyaz'yu. Odessa, 1957

Raschet, konstruirovaniye i issledovaniye peredach; trudy konferentsii, [t.] 1 (Design, Construction and Analysis of Transmissions; Transactions of the Conference on Problems in Design, Construction and Analysis of Gear and Flexible Transmissions, Vol 1) [Odessa] Odesskiy politekh in-t, 1958. 199 p. 5,000 copies printed.

Sponsoring Agencies: Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti, Odesskoye oblastnoye pravleniye, and Odesskiy politekhnicheskoy institut.

Ed.: I.P. Nikiforov, Engineer; Tech. Ed.: A. R. Komissarenko; Editorial Board: L.S. Borovich, Candidate of Technical Sciences, M.S. Belyayev, Engineer, M.D. Genkin, Candidate of Technical Sciences, K. I. Zablonskiy, Candidate of Technical Sciences (Resp. Ed.), P. S. Zak, Candidate of Technical Sciences, Ya.G. Kist'yan, Candidate of Technical Sciences, V. N. Kudryavtsev, Doctor of Technical Sciences, V.F. Mal'tsev, Candidate of Technical Sciences, M. S. Polotskiy

Card 1/8  
APPROVED FOR RELEASE: Tuesday, August 01, 2000

Design, Construction and Analysis of (Cont.)

SOV/2095

Candidate of Technical Sciences, and L.B. Erlich, Candidate of Technical Sciences.

COVERAGE: This book is the first of three volumes dealing with the transactions of the conference. This first volume contains articles on the design and construction of gearings and worm gearings. The second volume treats flexible transmissions and the third, theoretical and experimental analysis of transmissions. References follow several of the articles.

TABLE OF CONTENTS:

Foreword

Kudryavtsev, V.N., Ways of Decreasing the Outer Dimensions and Weight of Gear Transmissions

The author discusses the system of gearing designed by M.L. Novikov. He claims that it is the most efficient way of increasing load capacity while minimizing tooth chipping. Various other methods of increasing the load capacity of a gearing are also discussed.

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Design, Construction and Analysis of (Cont.)

SOV/2095

Diker, Ya. I., Design of Internal Straight Involute Gearing With a Small Difference in the Number of Teeth of [Meshing Gears]  
A method of design based on use of the rack-type form for the generating cutter gear is presented.

25

Pavlov, Z.P., Effect of the Tooth Hardness of Meshing Gears on the Load Capacity of a Gearing

The author presents results of tests on a gearing and underlines the importance of the difference in hardness of pinion and wheel. He states that hardness is not a measure for allowable contact stresses and durability.

31

Zak, P.S., Friction in Worm Gearing Trains

The friction in various periods of gearing life (running-in, regular operation) is analyzed, and fluid friction in gearing and coefficients of friction are discussed.

45

Yudin, V.A., Some Problems of the Geometry of Planetary Speed Reducers With Out-of-centrode Involute Gearing

57

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Design, Construction and Analysis of (Cont.)

SOV/2095

The geometric basis of design of toothed reducers and the general theory of out-of-centrode involute gearing are presented, and the selection of geometric parameters for gear trains of planetary speed reducers is discussed.

Pyatnitskiy, A.A., Weight Characteristics of Toothed Gears and Gear Trains  
The author derives equations for coefficients which can be used as criteria for "Weight quality" of gears and gear trains. He also compares steel gears with nonmetallic ones, and straight-tooth gears with gears with helical teeth.

67

Zablonskiy, K.I. Investigation of Load Concentration Along Tooth Bearings of Gears  
The essentials of tooth loading, deformation, and design are analyzed. The author concludes that in order to obtain a correct solution for load concentration, the local rigidity of teeth should be considered.

77

Beloborodov, V.A. The Problem of Developing Mechanical Marine Transmissions  
The use of gear trains in marine drives is discussed, and the construction of a reversible speed reducer is described.

87

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Design, Construction and Analysis of (Cont.)

SOV/2095

Bolotovskiy, I.A., Rational Selection of Displacement Coefficients and Distribution of Displacements Between Gears at Angular Correction With the Use of Limiting-contour Diagrams

95

The article discusses correction of involute gears by displacing the profile (angular correction) for obtaining the maximum contact strength, bending strength, and wear resistance with the aid of limiting-contour diagrams.

Smirnov, V.E. Limiting-contour Diagrams and Methods of Their Construction. Change in Contour Form Due to a Change in Certain Geometrical Parameters

103

Components of nonlimiting-contour diagrams, such as interference, overlapping coefficient, radial clearance, and changes of tooth height, and corner radii of the hob tooth are discussed.

Belyanin, A.I. Investigation of the Load Capacity of Helical Gears

111

Theoretical investigation, and data from experiments show that the load capacity of helical gears can be 50 percent greater than that of straight gears.

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Design, Construction and Analysis of (Cont.)

SOV/2095

Krivenko, I.S. Basic Results of a Theoretical and Experimental Investigation of New Types of Worm Gear Trains

The use of worms with concave profiles is discussed. The results of the investigation show the advantages of worm gears of this type.

119

Fedyakin, R.V. M.L. Novikov's Gearing System

A brief synopsis of Novikov's system for concave and convex teeth, including construction of profiles for this system has a load capacity is presented. The author claims that this system has a load capacity 2 to 3 times greater than standard involute gearing systems. He further states that this fact has been confirmed by exhaustive tests at various plants.

129

Solov'yev, A.I. Theoretical Fundamentals of the Friction Analysis of Automobile Transmissions and Experimental Methods of Investigating Friction in Automobile Mechanisms

The efficiency of gearings, universals and the whole transmission is analyzed. Friction in roller contact bearings and in the differential, friction losses in the transmission during unsteady motion, and experimental methods of investigating friction losses in automobile mechanisms are discussed.

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Design, Construction and Analysis of (Cont.)	SOV/2095	
Sigov, I.V. Some Problems in the Organization of Centralized Production of Speed Reducers and Gear Drives		153
Tsfas, B.S. Design for Strength of a Solid Toothed Gear, Weakened by Key or Spline Slots		163
Formulas are derived for forces and moments acting on sections of a gear weakened by spline ( 6 slots) and key ( one slot) joints.		
Blokh, O.T. Increase in the Accuracy of Kinematic Worm Gear Trains Used for Reading Mechanisms of Instruments		177
The author analyzes the accuracy of cylindrical worms and wheels for high-precision instruments. He makes recommendations for reducing the margin of error in the gear trains in order to reduce the total margin of error of the mechanism.		
Belyayev, M.S., and K. I. Zablonskiy. Consideration of Simultaneous Engagement of Two Pairs of Teeth in Gearing Design		187
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Design, Construction and Analysis of (Cont.)

SOV/2095

The distribution of load between two pairs of meshing teeth is basically determined by the rigidity of teeth and by the errors in engagement, chiefly the accumulated error of the circular pitch, causing the cyclic character of stresses. The author states that for a pair of gears of a given type the characteristic diagram for distribution of errors can be determined. He further states that this determination has been confirmed by inspection of several lots of gears manufactured by different methods.

Resolution of the Conference on the Problems of Design, Construction, and Analysis of Transmissions

195

The resolution stresses both the progress made and the deficiencies noted in design, construction, and manufacture of gearings and worm gear trains, and in the fields of continuous speed control, chain drives, and flexible shafts.

AVAILABLE: Library of Congress

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GO/fal  
8-9-59

Pavlov, Z.P.

TITLE: Books (Knigi)

121-2-19/20

PERIODICAL: "Stanki i Instrument" (Machine Tools and Tools), 1957,  
No.2, p. 44 (U.S.S.R.)

ABSTRACT: Gurevich, B.G., "The strengthening of threads by surface rolling" (Uprocheniye rez'by obkatkoy), AN SSSR, Moscow, 1956, 14 pages.

Ivanov, G.P. et al., "The effects of the electric spark hardened layer on the wear resistance and the fatigue strength of components" (Vliyaniye sloya elektroiskrovoy obrabotki na iznosostoykost' i ustalostnuyu prochnost' detaley). "The improvement of the cavitation resistance of components by electric spark hardening" (Povysheniye kavitatsionnoy stoykosti detaley elektroiskrovym uprochneniyem). "The thermal stability of the electric spark hardened layer in tempering" (Teploustoychivost' sloya elektroiskrovogo uprochneniya pri otpuske), AN SSSR, Moscow, 1956, 24 pages.

Davidenkov, N.N. (Editor). "Problems of design, manufacture and service of springs" (Voprosy proyektirovaniya, izgotovleniya i sluzhby pruzhin). Collection of articles. Mashgiz, Moscow-Leningrad, 1956, 267 pages.

1/4 Pavlov, Z.P. et al. "Machine for the testing of cylindrical

Books (Cont.)

121-2-19/20

rollers for fretting fatigue" (Mashina dlya ispytaniya tsil-indricheskikh rolikov na kontaktnuyu ustalost'). "A recording instrument for the tracing of compression, tension and relaxation diagrams" (Registriruyushchiy pribor dlya zapisi krivikh szhatiya, rastyazheniya i relaksatsii), AN SSSR, Moscow, 1956, 15 pages.

Polyakov, D.G. and Meyerovich, I.M. "Machines for strength tests of gear couplings and universally hinged shafts" (Mashiny dlya isputaniya na prochnost' zubchatykh muft i universal'nykh shpindel'ey), AN SSSR, Moscow, 1956, 13 pages.

Sergeyev, N.A. "Improvement of the productivity of labour in fitting and assembly work" (Povysheniye proizvoditel'nosti truda pri slesarnykh i sborochnykh rabotakh), Mashgiz, Moscow-Leningrad, 1956, 288 pages.

Proshin, G.A. "The electric spark treatment of machine components in repair work" (Elektroiskrovaya obrabotka detaley mashin pri remonte), Mashgiz, Kiev, Moscow, 1956, 111 pages.

Anfimov, M.I. "Designs of reducing gears" (Konstruktsii reduktorov). Album. Mashgiz, Moscow-Sverdlovsk, 1956, 220 pages.

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Books. (Cont.)

121-2-19/20

Belyayed, P.G., "A universal fixture for the centreless grinding of cylindrical components" (Universal'noye prispobleniye dlya shlifovaniya tsilindricheskikh detaley bez tsentrov), AN SSSR, Moscow 1956, 15 pages.

Bykov, P.B. and Khankin, L.D., "The reduction of auxiliary time in lathe work (Sokrashcheniye vspomogatel'nogo vremeni pri rabote na tokarnykh stankakh), Mashgiz, Moscow, 1956, 167 pages.

Nadeinskaya, E.P., "Investigation of cutting tool wear by means of radio-active isotopes" (Issledovaniye iznosa reznushchego instrumenta s pomoshch'yu radioaktivnykh izotopov), 2nd edition Mashgiz, Moscow, 1956, 164 pages.

Shal'nov, V.A. "High speed grinding of structural alloy steels" (Skorostnoye shlifovaniye legirovannykh konstruktsionnykh staley), Oborongiz, Moscow, 1956, 128 pages.

Petrusevich, A.I. et al., "The dynamic loads in gear transmissions with straight spur gears" (Dinamicheskiye nagruzki v zubchatykh peredachakh s pryamozubymi kolesami), AN SSSR, Moscow, 1956, 134 pages.

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Books. (Cont.)

121-2-19/20

Gorbunov, E.K. and Kiselev, M.A. "Computation of the numerical strength of automatic screw machine setters (Raschet chislennosti naladchikov tokarnykh avtomatov), AN SSSR, Moscow, 1956, 13 pages.

"Fixtures for grinding work" (Prisposobleniya dlya shlifoval'nykh rabot). Collection of articles. AN SSSR, Moscow, 1956, 28 pages.

Raykher, S.A., "Safety engineering in heat treatment shops" (Tekhnika bezopasnosti v termicheskikh tsekhakh), Mashgiz, Moscow, 1956, 144 pages.

AVAILABLE:

4/4

PAULOV, Z.P.

25(1)<sup>P. 3</sup>

PHASE I BOOK EXPLOITATION

SOV/2931

Konferentsiya po voprosam rascheta, konstruirovaniya i issledovaniy zubchatykh peredach i peredach gibkoy svyaz'yu. Odessa, 1957

Raschet, konstruirovaniye i issledovaniye peredach; trudy konferentsii..., vyp. 3 (Design, Construction, and Analysis of Transmissions; Transactions of a Conference on Problems in Design, Construction, and Analysis of Gears and Flexible Transmissions, No. 3) [Odessa] Izd. Odesskogo politekhn. in-ta, 1959. 124 p. 3,000 copies printed.

Sponsoring Agencies: Odesskiy politekhnicheskii institut, and Nauchno-tekhnicheskoye obshchestvo mashinostroyitel'noy promyshlennosti. Odesskoye oblastnoye pravleniye.

Ed.: I. P. Nikiforov, Engineer; Editorial Board: L. S. Borovich, Candidate of Technical Sciences; M. S. Belyayev, Engineer; M. D. Genkin, Candidate of Technical Sciences; K. I. Zablonskiy, (Resp. Ed.) Candidate of Technical Sciences; P. S. Zak, Candidate of Technical Sciences, Ya. G. Kist'yan, Candidate of Technical Sciences; V. N. Kudryavtsev, Doctor of Technical Sciences; V. F. Mal'tsev, Candidate of Technical Sciences;

Card 1/5

Design, Construction (Cont.)

SOV/2931

are mentioned. References follow each article.

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Design, Construction (Cont.)

SOV/2931

Semenov, Yu. S. Study of Gear Wear of Reduction Mechanisms in Electric Rock Drills

Murashko, V. P., and K. I. Zablonskiy. Contact Wear Resistance of Heavily Loaded Gears With Stepped Load Increase

Kuznetsov, A. P. Study of the Rigidity of Certain Elements of Automobile Transmissions

Teteryachenko, V. G. Design of Teeth for the M. L. Novikov Gear Train and Some Special Features of Composite Gear Drives

Tsfas, B. S. Relationship Between Load Distribution in a Splined Joint of a Gear and Shaft and the Rigidity of Components in the Joint

Omirov, O. F. Maximum Value of the Coefficient of Overlap in Spur Gear Trains With External Engagement With Straight Involute Teeth and Angular Correction

Card 4/5

Design, Construction (Cont.)

SOV/2931

Zablonskiy, K. I. Gear-testing Installation

111

AVAILABLE: Library of Congress

Card 5/5

G0/ec  
1-25-68

PAVLOV, Z.P., kandidat tekhnicheskikh nauk.

Durability of the working surfaces of gear teeth at variable load. Vest.  
mash. 33 no.3:16-20 Mr '53. (MLRA 6:5)  
(Gearing)

PAVLOV, Z.P.

Method for the summation of fatigue on the basis of equal damage  
lines. Zhur.tekh.fis. 24 no.2:227-230 V '54. (MIRA 7:5)  
(Metals--Fatigue)

PAVLOV, Z.P., kandidat tekhnicheskikh nauk.

Lead conditions and tooth-surface supporting capacity of gear  
wheels. [Trudy] TSHIITMASH 81:74-108 '56. (MLRA 9:12)  
(Gearing)

POLOTSKIY, M.S., kandidat tekhnicheskikh nauk; PAVLOV, Z.P., kandidat tekhnicheskikh nauk.

Load capacity of skew gears having off-pitch-point engagement of the second type. [Trudy] TSNITMASH 81:137-148 '56. (MLRA 9:12)  
(Gearing)

PAVLOV, Z. P.

USSR-Metals - Fatigue damage

FD- 1

Card 1.1 : Pub 153-8, 1953

Author : Pavlov, Z. P.

Title : Method for the determination of cumulative fatigue from curves of equal damage

Periodical : Zhur. tekhn. fiz., 24, No 2, 27-30, Feb 1954

Abstract : Analyzes the most widely used method by Richart and Newmark (Hypothesis for the Determination of Cumulative Damage in Fatigue). Finds it inappropriate to use, because of errors introduced and cumbersomeness. 1 reference.

Institution :

Submitted : September 1, 1953

PAVLOV, Z.P., kandidat tekhnicheskikh nauk.

Durability of the working surfaces of gear teeth at variable load. Vest.  
mash. 33 no.3:16-20 Mr '53. (MLBA 6:5)  
(Gearing)



PAVLOV, Z.P., kandidat tekhnicheskikh nauk.

Durability of the working surfaces of gear teeth at variable load. Vest.  
mash. 33 no.3:16-20 Mr '53.

(MLRA 6:5)

(Gearing)

CA

16

Use of "Oganishovo" bentonite in the clarification of wine. S. I. Pavlov-Grigina (Moscow Ptilial Inst.). *Vinodelo i Vinogradarstvo S.S.S.R.* 10, No. 7, 47 (1957).--  
Twelve wines were subjected to clarification with "Oganishovo" bentonite (I). The rate of treatment was 4-30 g. of air-dry I per decaliter of wine, applied as a 10% suspension. Results were that 3 wines were completely clarified, 4 darkened to a slight turbidity, and the remainder not clarified at all. The completely clarified wines required 2 hrs. treatment with I. After 22 days an insignificant amt. of crystal ppt. settled out. The titratable acidity (calcd. as tartaric acid) dropped 0.22% after treatment with 1-10% suspensions of I, and the pH dropped 0.03 units. The clarification of white and red wines with I and gelatin caused a decrease of coloration of 0.5 to 0.7%. No difference in taste was detd. after treatment with I. S. G.

PAVLOV-GRISHIN, S.I.

Improved process of bottling wine. N. I. Pavlov-Grishin (Inst. "Magarach," Moscow Branch). *Vinostrel's Vinogradarstvo S.S.S.R.* 11, No. 6, 32-3 (1951).--A diagram of the industrial bottling of wine is presented, the application of which reduces the amt. of O<sub>2</sub> usually absorbed during the process, to a great extent. A wine, contg. 3.28 ml. dissolved O<sub>2</sub>, after being transferred into the bottles filled with CO<sub>2</sub> or air, contained 4.66 and 6.29 ml. O<sub>2</sub>, resp.; 2.48 and 2.33 ml. O<sub>2</sub> less than when the usual bottling method was used. B. Wierbicki

PAVLOV-GRISHIN, S. I.

PAVLOV-GRISHIN, S. I. -- "Irradiation-Resistant Potential as an Indicator in the Control of Production Quality in the Accelerated Production of Ordinary Wires." Ministry of Education USSR. Moscow Technical School, Technical Inst of the Coal Industry. Moscow, 1956.  
(Dissertation for the Degree of Candidate in Technical Sciences).

CC: Zhizhnaya Letopis', No 1, 1956

PAVLOV-GRISHIN, S. I.; CHERNOV, N. N.

~~Accelerated heat stabilizing of wines.~~ Accelerated heat stabilizing of wines. Vin.SSSR 15 no.3:12-14'55  
(MLRA 8:8)

1. Tsentral'naya nauchno-issledovatel'skaya laboratoriya VP  
Glavnogo upravleniya vinodel'cheskoy promyshlennosti (RSFSR)  
(for Pavlov-Grishin,). 2. Moskovskiy vinsavod No.2 Rosglavvino  
(for Chernov)

(Wine and wine making)

PAVLOVA, A. [Paulava, A.]

The "Student shift" is our source of labor supply. Hab. 1 sial.  
35 no.6:17 Je '59. (MIRA 12:8)  
(Grodno--Education, Cooperative)

L 32215-66

ACC NR: AP6020812

SOURCE CODE: BU/0011/65/018/006/0533/0536

AUTHOR: Paspaleev, E.; Pavlova, A.

ORG: Food Institute, Plovdiv

TITLE: Polarographic behavior of certain Schiff bases and their correlation with

LCAO-MO molecular energies

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 6, 1965, 533-536

TOPIC TAGS: Schiff base, polarographic analysis, molecular property, molecular physics

ABSTRACT: The studies concerning the correlation between the molecular properties and the structural and energy parameters calculated by quantum-mechanical means may contribute to the clarification of numerous problems of electronic and spatial structure of molecules. G. Semerano and G. Giacometti showed, for instance (*Contr. tero. e speriment. di Polarografia*, V, 1960, 177) that there exists a linear relationship between the half-wave reduction potential ( $\pi_{1/2}$ ) of certain carbonyl and halide derivatives and the energy difference between the initial and final states (see also E. Fornasari et al., *Ibid.*, V., 1960, 262; G. Rigatti, *Ibid.*, V., 1960, 310; S. Basu, J. Chauduri, *Natura*, 180, 1957, 4600, 1473). The present article contains results of polarographic studies of the reduction of certain anils (benzylidene aniline, phenylpropylene aniline, benzylidene- $\alpha$ -naphthylamine, benzylidene- $\beta$ -naphthylamine) in which the  $\pi_{1/2}$  values were compared with the energies of the first antibond MO (calculated by the Hueckel LCAO-MO method). The benzylidene- $\beta$ -naphthylamine diagram showed a considerable departure from linearity, which was confirmed in the case of the three other compounds (they agree with the  $-\pi_{1/2} = 1.253 + 0.201 E_{MO}$  curve). The eigenvalues of the Hueckel matrix were calculated at the Institute of Physical Chemistry of the Czechoslovakian Academy of Sciences. This paper was presented by Corresponding Member BAN A. Spassov on 25 January 1965. Orig. art. has: 3 figures and 1 table. [Orig. art. in German] [JPRS]

SUB CODE: 20 / SUBM DATE: 25Jan65 / OTH REF: 016

Card 1/1

ZAMLINSKIY, Vladimir [Zamlins'kyi, Volodymyr]; MIKHAYLICHENKO, B.  
[Mykhaïlychenko, B.], red.; PAVLOVA, A., red.

[The astronaut] Astronavt. L'viv, Kameniar, 1964. 123 p.  
(MIRA 18:2)



PAVLOVA, A.

IVANOVA, L.; ALEKSANDROVSKAYA, N.; PAVLOVA, A.; TIKHOMIROV, V.P., otvet-  
stvennyy redaktor; KOSTINSKIY, D.N. redaktor; NOGINA, N.I., tekhnicher-  
skiy redaktor

[Thailand, Federation of Malaya, Singapore] Tailand, Malaiskaja Fe-  
deratsiia, Singapur. Moskva, Gos. izd-vo geogr. lit-ry, 1956. 28 p.  
(Malay Peninsula--Geography) (Thailand--Geography) (MLBA 10:4)

L 01748-67 T DS

ACC NR: AP6035629

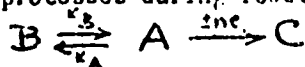
SOURCE CODE: BU/0011/65/018/011/1027/1030

PASFALEEV, E., PAVLOVA, A., Department of Physical Chemistry, College for  
Food Chemistry, Plovdiv (Original-language version not given)

"Kinetics of Electrode Processes during Reactions in Mixed Solvents"

Sofia, Doklady Bolgarskoy Akademii Nauk, Vol 18, No 11, 1965, pp 1027-1030

Abstract: [German article] The authors investigated the influence of water-alcohol mixtures (used during the polarography of organic depolarizers) on the kinetics of electrode processes during reactions of type



Here B becomes electroactive for sufficiently negative potentials only. An expression has been derived in the form

$$\log \frac{i_1}{i_2} = \text{const} - \frac{1}{2} [b [C_1] + \log ([C_1] + [C_2])] ]$$

describing the influence of the solvent on the ratio of the polarographic limiting currents  $i_1$  and  $i_2$  in the case of oximes. Here b is a constant and  $C_1$  and  $C_2$  are the concentrations of the organic solvent and water, respectively. Results of tests carried out on an Orion-7-77-4/b registering polarograph are in very good agreement with the above theoretical formula which can apparently be used also for the quantitative description of the behavior of other depolarizers. This paper was presented by Academician D. Ivanov on 03 August 1965. Orig. art. has: 4 figures and 7 formulas. (JPRS: 36,002)

Card 1/2

0422 0030

L 01748-67

ACC NR: AP6035629

TOPIC TAGS: polarographic analysis, organic oxine compound, chemical kinetics

SUB CODE: 07 / SUBM DATE: 03 Aug 65 / ORIG REF: 002 / SOV REF: 004

OTH REF: 004

Card 2/2 pb

BAKULEV, A.N., akademik, glav. red.; ZAVALISHIN, N.I., prof., zam. glav. red.; TIMAKOV, V.D., prof., zam. glav. red.; IL'ICHEVA, K.I., starshiy nauchnyy red.; OBYSOVA, Ye.S., starshiy nauchnyy red.; PAVLOVA, A.A., starshiy nauchnyy red.; BAKANOVA, T.D., nauchnyy red.; LEBEDEVA, A.K., red.; GRISHINA, L.A., tekhn. red,

[Large medical encyclopedia]Bol'shaia meditsinskaya entsiklopediya. Glav.red. A.N.Bakulev. Moskva, Gos.nauchn. izd-vo "Sovetskaya entsiklopediya." Vol.27. Profilaktika - Revorden. Izd.2. 1962. 1224 columns. \_\_\_ [List of articles and terms for the letters "P" and "R"]Perechen' statei i terminov na bukvy "P" i "R" (dvadtsat'sed'moi tom) 4 p. \_\_\_ [Phonorecord appended to the article "Heart defects" (Combined heart defects)]Gramofonnaia plastinka k stat'e "Poroki serdtsa" (Kombinirovannye poroki serdtsa). Vol.28. Revmatizm - Rumyniia. Izd.2. 1962. 1248 columns. \_\_\_ [List of articles and terms for the letter "R"]Perechen' statei i terminov na bukvu "R" (dvadtsat' vos'moi tom) 4 p. \_\_\_ [Phonorecord appended to the article "Psychogenia"] Gramofonnaia plastinka k stat'e "Psikhogenii" (psikhogennye psikhozy) (MIRA 15:12)

(MEDICINE--DICTIONARIES)

KANTOR, O.A.; PAVLOVA, A.A.

"Silvery fissure" in AlSi alloy. Lit.proizv. no.6:16-17 S '54.  
(Aluminum alloys--Testing) (MIRA 7:10)

L 46912-66 EMT(1)/EMT(m)/FMP(t)/ETI IJI(c) JD/JJ/KT

ACC NR: AP6015505

SOURCE CODE: UR/0181/66/008/005/1641/1643

AUTHOR: Kanicheva, I. R.; Pavlova, A. A.

ORG: Leningrad Polytechnic Institute im. M. I. Kalinina (Leningradskiy politekhnicheskiy institut)

TITLE: Electron scattering in thin copper and gold films

SOURCE: Fizika tverdogo tela, v. 8, no. 5, 1966, 1641-1643

TOPIC TAGS: particle scatter, electron scattering, copper film, microelectronic thin film

ABSTRACT: Conventionally prepared Cu (300-1500 Å) and Au (200-600 Å) films were used to examine the electron backscattering and the angular distribution of electrons in the 1.5 to 16 keV energy range. The obtained results are recorded on polar diagrams. Based on experimental data, it seems that in the course of multiple scattering, some electrons scatter at larger angles than other electrons. This may be a result of close interactions which are capable of abruptly changing the direction of motion of an electron. Moreover, it appears that the motion of the electron beam is not necessarily diffuse, as believed to be by other authors. The authors thank A. R. Shul'man for his continued attention and discussions of the work.

SUB CODE: 20/  
09/

SUBM DATE: 18Dec65/

ORIG REF: 002/

OTH REF: 004

Card 1/1 sv

BARKAN, D.D.; TIKUNOV, P.R.; SHEKHTER, O.Ya.; PREOBRAZHENSKAYA, N.A.;  
SAVINOV, O.A.; LUSKIN, A.Ya.; GREBENNIIK, A.A.; MERZLYAK, TS.N.;  
ALEKSANDROV, M.A.; TSAPLIN, S.A.; PAVLOVA, A.B.; DITRIKH, Yu.V.;  
KHAVIN, B.N., red.izd-va; TEMKINA, Ye.L., tekhn.red.

[Instructions for driving and extracting steel pile planks using  
SN 59-59 vibrators] Instruktsiia po pogruzheniiu i izvlecheniiu  
stal'nogo shpunta vibropogruzhateliami SN 59-59. Moskva, Gos.  
izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959.  
46 p. (MIRA 13:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam  
stroitel'stva. 2. Nauchno-issledovatel'skiy institut osnovaniy  
i podzemnykh sooruzheniy Akademii stroitel'stva i arkhitektury  
SSSR (for Barkan, Tikunov, Shekhter, Preobrazhenkaya). 3. Vse-  
soyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i  
sanitarno-tekhnicheskikh rabot (VNIIGS) (for Savinov, Luskini).
4. Fundamentproyekt (for Grebennik, Merzlyak). 5. Vsesoyuzhnyy  
nauchno-issledovatel'skiy institut stroitel'nogo i dorozhnogo  
mashinostroyeniya (VNIISTroydormash) (for TSaplin). 6. Gidropro-  
yekt (for Pavlova). 7. Gidrospetsfundamentstroy (for Ditrikh).  
(Vibrators) (Piling (Civil engineering))

PAVLOVA, A.F.

Vascularization of bone transplants lodged in the osseous bed.  
Sbor. nauch. trud. GIDUV no. 14:123-129 '58. (MIRA 13:10)

1. Iz kafedry operativnoy khirurgii Gosudarstvennogo instituta  
dlya usovershenstvovaniya vrachey (zav. kafedroy prof. A.P.  
Nadein).

(BONE GRAFTING) (BLOOD VESSELS)



PAVLOVA, A. F.

"The revascularization of bone seedlings planted in the bone bed."  
Leningrad State Order of Lenin Inst for the Advanced Training of  
Physicians imeni S. M. Kirov. Leningrad, 1956. (Dissertations  
for the Degree of Candidate in Medical Science)

So: Knizhaya letopis', No. 16, 1956

PAVLOVA, A.I.

Afferent innervation of the trachea. Zhur. ush., nos. i gorl.  
bol. 21 no.2:12-17 Mr-Apr '61. (MIRA 14:6)

1. Iz kafedry normal'noy anatomii (zav. - prof. F.A.Volynskiy) i  
kafedry bolezney ukha, gorla i nosa (zav. - prof. L.A.Zaritskiy)  
Odesskogo meditsinskogo instituta.  
(TRACHEA--INNERVATION)

PAVLOVA, Aleksandra Ivanovna

Treatment of Trachoma According to the Academic Method of V.P. Filatova

Dissertation for candidate of a Medical Science degree. Chair of Eye Diseases (head, Prof. I.A. Belyayev) Saratov Medical Institute, 1942

PAVLOVA, A.I. Prinsipialni uchastiye: LYUSTIKH, Ye.N., nauchnyy sotr.,  
kand. fiz.-mat. nauk; VEYTSMAN, P.S., nauchnyy sotr.; NIKOLAYEVA,  
L.K., red. izd-va; SUSHKOVA, L.A., tekhn. red.

[Structure of the crust and the upper part of the earth's mantle  
according to geophysical data; biographical index, 1937-1961]  
Stroenie kory i verkhnei chasti mantii Zemli po geofizicheskim dan-  
nym; bibliograficheskii ukazatel', 1937-1961. Moskva, Izd-vo Akad.  
nauk SSSR, 1962. 92 p. (MIRA 15:6)

1. Akademiya nauk SSSR. Institut fiziki Zemli. Biblioteka. 2. In-  
stitut fiziki Zemli Akademii nauk SSSR (for Veytsman, Lyustikh)  
(Bibliography--Earth--Surface)

VYZGO, V.S.; PAVLOVA, A.I.; NABIYEV, M.N.

Possible intensification of the process of manufacturing fertilizers with the use of fluidization. Uzb. khim. zhur. 9 no.4: 5-10 '65. (MIKA 18:12)

1. Institut khimii AN UzSSR. Submitted April 8, 1965.

VOLYNSKIY, F.A.; POPOVKIN, Ye.M.; MAKARENKO, I.V.; PAVLOVA, A.I.; SHEVCHUK,  
P.Ye.; KATKHE, V.L.

Profound study of afferent (spinal) innervation of the internal  
organs. Arkh. anat., gist. i embr. 47 no.12:64-76 D '64.

(MIRA 18:4)

1. Kafedra normal'noy anatomii (zav. - zasluzhennyy deyatel'  
nauki prof. F.A.Volynskiy) Odesskogo gosudarstvennogo meditsinskogo  
instituta imeni Pirogova.

PAVLOVA, A. I.

- Chemistry - Naval Med. Acad., Leningrad.

"Hydroxyfuchstone Dyes. III. 4' - Hydroxyfuchstone

(Benzaurin), J. Gen. Chem., 17, 1947.

ACC NR: AP7006231

(A)

SOURCE CODE: UR/0078/67/012/001/0213/0215

AUTHOR: Berg, L. G.; Malkova, T. I.; Pavlova, A. K.

ORG: none

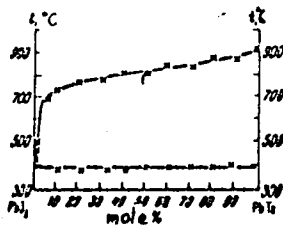
TITLE: The PbTe-PbI<sub>2</sub> system

SOURCE: Zhurnal neorganicheskoy khimii, v. 12, no. 1, 1967, 213-215

TOPIC TAGS: lead alloy, tellurium alloy, iodide, lead compound

ABSTRACT: The PbTe-PbI<sub>2</sub> section in the ternary system Pb-Te-I<sub>2</sub> was studied by differential thermal analysis. The thermograms showed two distinct and characteristic endothermic effects. The first effect is at 380-385°C; the temperature of the second effect drops from 917°C (melting point of pure PbTe) to 425°C at 0.5 mole % PbTe and 99.5 mole % PbI<sub>2</sub>. A phase diagram of the PbTe-PbI<sub>2</sub> system (Fig. 1) was plotted from

Fig. 1. Phase diagram of the PbTe-PbI<sub>2</sub> system



Card 1/2

UDC: 541.123.2



ACC NR: AP7006231

these thermographic data. It is a diagram with a degenerate eutectic. In order to detect traces of a liquid phase in the system during heating of the alloys, a thermogram was recorded with simultaneous recording of the electric conductivity. The results of differential thermal analysis were checked by x-ray phase analysis, which confirmed the presence of only two phases, PbTe and  $PbI_2$ . Measurement of the thermal emf showed that all the alloys in the system were of n type, except pure PbTe, which had a p-type conductivity. Hence, a gradual addition of  $PbI_2$  to PbTe causes a change in the conductivity sign (which occurs at 3%  $PbI_2$  + 97% PbTe). Orig. art. has: 5 figures.

SUB CODE: 07,20/ SUBM DATE: 27Mar65/ ORIG REF: 004/ OTH REF: 001

Card 2/2

LEONOV, V.A., professor; PAVLOVA, A.K., kandidat meditsinskikh nauk.

Cobalt, copper and iron content of a healthy child's blood.  
Izv.AN BSSR. no.5:125-134 S-0 '55. (MLRA 9:2)

1.Deyatvitel'nyy chlen Akademii nauk BSSR (for Leonov).  
(BLOOD--ANALYSIS AND CHEMISTRY)

Padova, A.K.

The amounts of cobalt, copper, and iron in blood of healthy children. V. A. Leonov and A. K. Pavlova. *Izvest. Akad. Nauk Beloross. S.S.R.* 1955, No. 5, 125-34 (in Russian). — The amt. of Co in the blood of healthy children from birth to 15 years of age fluctuates within the range of 3.7-18.8  $\gamma$ /100 ml. blood. The smallest amt. is in the newborn children and the greatest at the age of 1-3 years. Above this age the amt. of Co gradually decreases. There is no difference with sex, except for the girls at puberty when the Co concn. in blood slightly decreases. There is a seasonal variation of the Co concn. in the blood: more in summer-autumn and less in winter-spring period (11.6-13.1, and 7.7-11.38  $\gamma$ /100 ml., resp.). The blood plasma of the children of 3-6 years of age contains more Co than the erythrocytes. The amt. of Cu in blood from children from 7 to 15 years of age is 115-180  $\gamma$ /100 ml.; the Cu content in the blood slightly decreases with the age and the amt. of Cu in the blood of boys is 145.2, 143.5, and 132.9; girls: 145.4, 135.5, and 127.5  $\gamma$ /100 ml. for the ages of 7-9, 9-12, and 12-15 years, resp. The amt. of Fe in the blood of children of 7-15 years of age is from 30.5 to 66.5 mg. %. B. Wierbicki

*Med*

2

PAVLOVA, A. K.

1722. Soderzheniye Kobal'ta I Medi V Krovi U Peter: Zdorovykh I Pri Anemicheskikh Sostoyaniyakh. Minsk. 1954. 19s. 19sm. ( MincKii Gos Med. In-t ). 100 EKZ. B. Ts. (54-52190)

S0: Knizhnaya Letopis', Vol. 1, 1955

MIROSHNICHENKO, I.I.; PAVLOVA, A.M.; LEONT'YEVA, A.M., kandidat sel'skokho-  
syaystvennykh nauk, redaktor.

[Chick-pea] Mat. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1953. 111 p.  
(MLBA 7:1)  
(Gram (Grain))

ADOL'F, V.A.; PODRIGALO, A.I.; KOLENKO, A.N.; BELINSKAYA, N.N.; PAVLOVA,  
A.N.; LEBEDINSKIY, G.B., red.; KASPEROVICH, N.S., red.izd-va;  
KL'KIND, V.D., tekhn.red.

[Catalog of spare parts for the DSSh-14, DSSh-14M, and DVSSh-16  
(automotive chassis-type) tractors] Katalog zapasnykh chastei  
traktorov DSSh-14, DSSh-14M i DVSSh-16 (tipa samokhodnykh shassi)  
(MIRA 13:3)

1. Khar'kovskiy traktorosbornochnyy zavod. 2. Otdel glavnogo  
konstruktora Khar'kovskogo traktorosbornochnogo zavoda (for Adol'f,  
Podrigalo, Kodenko, Belinskaya, Pavlova). 3. Glavnyy inzhener  
Khar'kovskogo traktorosbornochnogo zavoda (for Lebedinskiy).  
(Tractors--Catalogs)

PAVLOVA, A.T.; SOLOV'YENVA, O.I.; CHERNOVA, V.N.; KHEYSINA, S.N.

The diagnostic value of Widal's test in acute dysentery of early childhood. Vop.okh.mat.i det. 2 no.3:14-21 My-Je '57. (MLRA 10:7)

1. Iz kafedry mikrobiologii (zav. - prof. V.M.Berman) Leningradskogo pediatricheskogo meditsinskogo instituta i detskoj infektsionnoy bol'nitsy imeni K.Libknekhta.  
(DYSENTERY)

PAVLOVA, A.V.

Decreasing the incidence of dysentery among children in children's hospitals. Zhur.mikrobiol.epid.i immun. no.8:87 Ag '54. (MLRA 7:9)  
(DYSENTERY)



PAVLOVA, A.I.

Suppurative skin diseases and their prevention during summer farm  
work. Med.sestra, Moskva no.6:3-6:6-12 June 1951. (CML 20:9)

PAVLOVA, A.I.; GUNEYEV, G.S., inzh.-ekon. retsenzent; TEPLOV, G.V.,  
doktor ekon. nauk, red.; Salyanskiy, A.A., red. izd-va

[Planning by individual orders in machinery manufacturing]  
Planirovanie po individual'nym zakazam v mashinostroenii.  
Moskva, Mashgiz, 1963. 70 p. (MIRA 16:10)  
(Machinery industry)

CHEVELEVA, Nina Alekseyevna; PAVLOVA, A.I., red.

[Correction of speech in stammering preschool children]  
Ispravlenie rechi u zaikayushchikhsia doshkol'nikov.  
Moskva, Prosveshchenie, 1965. 85 p. (MIRA 18:12)

PAVLOVA, A.I.

Changes in the intramural nervous system of the trachea in cancer  
of the larynx. Zhur.ush., nos.1 gorl.bol. 21 no.6:42-49 N-D '61.  
(MIRA 15:11)

1. Iz kafedry otorinolaringologii (zav. - prof. L.A.Zaritskiy)  
i kafedry normal'noy anatomii (zav. - prof. F.A.Volynskiy)  
Odesskogo meditsinskogo instituta imeni N.I.Pirogova.  
(TRACHEA---INNERVATION) (LARYNX---CANCER)

GORBACHEV, S.S., inzh.; PAVLOVA, A.I., inzh.

Manufacture of multilayer wall panels and requirements for the  
materials used to make them. Stroi. mat. 7 no.9:3-5 S '61.  
(MIRA 14:11)

(Precast concrete) (Walls)

PAVLOVA, A.K. [Paulava, A.K.], kand. med. nauk

Amount of cobalt, copper, and iron in the blood of children  
suffering from leucosis. Vestsi AN BSSR. Ser. biol. nav. no. 2:93-  
102 '58. (MIRA 11:8)

(LEUCOSIS)  
(METALS IN THE BODY)  
(CHILDREN--DISEASES)

USSR/Human and Animal Physiology - Blood.

V-3

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18042

Author : A.K. Pavlova

Inst : -

Title : The Amount of Nickel in the Blood of Donors.

Orig Pub : Vestsi AN BSSR. Ser. biyal. n., 1956, No 3, 83-89

Abstract : Using dimethylglyoxime, a study was made of blood nickel content with a Pulfrich photometer. Among 14 men the values ranged between 15.9 and 48.7 /100 ml, with an average value of 27 /100 ml. The range among 25 women was 13.8 to 38.4 /100 ml, with an average value of 24.7 /100 ml. The corresponding peripheral blood Hb levels were 78 to 95% among the men and 65 to 80% among the women. No relationship was manifested between Ni content and age. During the spring and winter the Ni level was less than in the fall: among men the springtime range of values was 15.9 to 38.3 /100 ml, while in the fall it

Card 1/2

PAVLOVA, A. K.

2598. Content of cobalt, copper, and iron in blood of healthy children. V. A. Leontyev and A. K. Pavlova. *Izv. Akad. Nauk SSSR, S.S.R., 1953, No. 5, 125-127. *Tr. Vsesoyuzn. Nauch. Biol. 1958. Abstr. No. 12882.**

The Cu content of blood of healthy children from the moment of birth up to 15 years varies within the limits of 3.7 to 16.6  $\mu\text{g}/100$  ml. The Cu content depends on age. The very lowest amount of Cu is in the blood of the newly born, the highest is for children from 1 to 3 years. The Cu content of the blood gradually decreases with age. Puberty variations in child growth are not discussed. Attention is drawn to the fact that the amount of puberty in girls is somewhat greater than in boys. The Cu content in blood of children from 1 to 3 years is 15.4  $\mu\text{g}/100$  ml. With increased ml. blood and dependent on growth and puberty, the Cu growth the amount of Cu in the blood gradually increases. The Cu content of the blood of children is somewhat greater than in girls of the same age. The amount of Cu in the blood of children from 7 to 15 years varies from 5.9 to 13.8  $\mu\text{g}/100$  ml.

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turnace; Cu content was determined with a diffusion electrometer. The Cu level ranged from 5.9 to 13.8 % (5.9 to 7.0 with an average value of 6.3 % among the men and 6.6 to 13.8 with an average value of 8.3 % among the women). The Cu content of the women in the fall was 7.4 to 13.8, with an average value of 10.4. In the spring the Cu level was 6.6 to 10, with an average value of 7.7 %. The Hb level of the women in the fall ranged from 70 to 77%, and



U.S. Army and Human and Animal Physiology - Blood.

V-3

So Jour : Ref Jour - Blood, No 4, 1958, 18045

in the spring 69 to 75%. The seasonal differences are explained by the fact that in the fall products containing more cobalt are used in the diet.

Card 2 2

М.В.В.У.В.Н., Н.К.

12504. Cobalt, copper, and iron content of blood of normal children.  
 V. A. Lomonov and A. K. Pavlova. *Izv. Akad. Nauk, Belorus S.S.R.*,  
 1957 No. 5 125. *Abstracts of the 1957 Intern. Congr. Hyg. Abstr. No.*  
 12482. The Co...  
 years of age range between 3 1/2 and 16.6 yr. 100 ml. blood and is  
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 old...  
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 and sex...  
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PAVLOVA, A. K.

"The Cobalt and Copper Content in the Blood of Healthy Children and in the Blood of Those Suffering From Anemia." Cand Med Sci, Minsk State Medical Inst, 23 Dec 54. (SB, 8 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

PAVLOVA, A.M., kand.biol.nauk

Significance of the asparagus bean in breeding. Trudy po prikl.  
bot., gen. i sel. 32 no.3:228-232 '59. (MIRA 14:5)  
(Vigna)

SOCHIVKO, L.F.; VASADZE, G.Sh.; PAVLOVA, A.M. (Leningrad)

Flow-type oxyhemograph (type POG-01), a device for the continuous recording of the degree of oxygen saturation of the blood. Pat. fiziol. i eksp. terap. 6 no.6:80-81 N-D'62  
(MIRA 17:3)

1. Iz konstruktorskogo tekhnologicheskogo byuro "Biofizpribor" (nachal'nik - glavnyy konstruktor G.V. Rusakov) i kafedry patologicheskoy fiziologii (nachal'nik - deystvitel'nyy chlen AMN SSSR prof. I.R. Petrov) Voenno-meditssinskoy ordena Lenina akademii imeni Kirova, Leningrad.

SHAYDAN, L.O.,; DUL'CHINA, B.M.; PAVLOVA, A.M.

Effect of different physical and chemical factors on the stability  
of carotene in solutions. Trudy VNIVI 5:51-64 '54. (MLRA 9:3)

1. Tekhnologicheskaya laboratoriya.  
(CAROTENE)

PAVLOVA, A. M.

Effect of various factors on stability of carotene in solutions. L. O. Shaldinn, B. M. Dul'china, and A. M. Pavlova. *Trudy Vsesoyuz. Nauch. Issledovatel. Vilamin. Inst. 6*, 61-64(1954).—The deciding factor in decompn. of carotene is atun. O; acids, light, and heat cause some acceleration of decompn., light being least, acid the most important. Alkalies have no effect. G. M. Kozolapoff

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PAVLOVA, A.M.

USSR

Prepared squash as raw material for the production of carotene. R. K. Nikolov, P. I. Belonozhko, O. I. Babcheva, and A. M. Pavlova. *Trudy Vsesoyuz. Nauch. Issledovatel. Uchenykh Inst. 4*: 116-11 (1953). The carotene content of raw squash was 16.4-17.7 mg. %. Part of the squash was ground into a pulp and part cut into pieces approx. 8 X 8 cm. The pulp was placed in glass jars (1) mixed with 2% NaCl, (2) with 6% NaCl, and (3) without NaCl. Into another set of glass jars intermittent layers of pulp and pieces were placed with the addn. of 2% NaCl. The jars were covered with paper and tied with fine cord. To simulate practical also conditions on sterility was observed. The squash-filled jars were kept in the lab. at 14° during January, at 8-12° during February, at 9-12° in March, at 11.5-17.5° in April, at 17-18° in May. Several jars of each type of squash silage were prepd. so that analysis could be made at given time intervals without the need of resealing and reopening the jars. The squash variety known as "vitamin" was used, which normally contained 6.89% of sugar, a factor favoring the formation of silage of high quality. In the early stage of silage formation lactic acid accumulated rapidly, reducing the original pH from 6.0 to 4.4-4.0, thereby serving as an important factor in silage conservation. The ratio of lactic to acetic acid was 3:1, indicating the high quality of the silage. The latter remained a golden-yellow color, had a pleasant odor, and appetizing sour fermentation taste. After 2-6 months, the silage lost 3-8.8% of its original weight. The best-quality squash silage was obtained with the pulp. After 8 months of preservation the unsalted pulp showed 14.1% gain in carotene on the original wt. basis. The salted pulp had a 16.4% carotene gain, the 2% NaCl-contg. pulp yielding higher results. At the end of 4 months only a slight loss in carotene occurred in the unsalted pulp, while a 12.0% loss occurred in the 6% NaCl pulp. In the silage consisting of intermittent layers of pulp and pieces of squash plus 2% NaCl at the end of 8-9 months there was a 18.4-23.7% loss in carotene. H. B. Levins



GORBUNOV, Vladimir Pavlovich; PAVLOVA, Anna Mikhaylovna; GLUSHENKOVA,  
Nina Ivanovna; LEBEDEV, S., red.; ABBASOV, T., tekhn. red.

[For two crops a year] Za dva urozhaiia v god. Tashkent, Gos-  
izdat UzSSR, 1963. 38 p. (MIRA 16:5)  
(Uzbekistan--Feeds)

SHVAYDMAN, L.O.; PAVLOVA, A.M.

Stability of a vitamin A concentrate from fish oil. Trudy VNIIV  
6:116-118 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
Tekhnologicheskaya laboratoriya.  
(VITAMINS--A)

ADOL'F, V.A.; PODRIGALO, A.I.; PAVLOVA, A.N.; LEBEDINSKIY, G.V., inzh.,  
red.; KASPEROVICH, N.S., red. izd-va; UVAROVA, A.F., tekhn. red.

[Catalog of parts for the T-16 self-propelled chassis] Katalog de-  
talei samokhodnogo shassi T-16. Moskva, Gos. nauchno-tekhn. izd-vo  
mashinostroit. lit-ry, 1961. 206 p. (MIRA 14:11)

1. Khar'kovskiy traktorosborochnyy zavod. 2. Otdel glavnogo konstruk-  
tora Khar'kovskogo traktorosborochnogo zavoda (for Adol'f, Podrigalo,  
Pavlova).

(Tractors)

ADOL'F, V.A.; PAVLOVA, A.N.; PODRIGALO, A.I.; LEBEDINSKIY, G.V.,  
inzh. red.; ARTYUKHIN, V.A., red.izd-va; EL'KIND, V.D.,  
tekhn. red.

[Catalog of parts for the T-16 self-propelled chassis]  
Katalog detalei samokhodnogo shassi T-16. Moskva, Mashgiz,  
1963. 182 p. (MIRA 17:2)

1. Khar'kovskiy traktorosborechnyy zavod. 2. Otdel glavnogo  
konstruktora Khar'kovskogo traktorosborechnogo zavoda (for  
Adol'f, Pavlova, Podrigalo).

PAVLOVA, A.P.

Early Devonian Fasciphylum in southern Fergana. Paleont. zhur.  
no.4:39-43 '63. (MIRA 17:1)

1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov  
Kirgizskoy SSR.

L 16510-66 EWT(m)/EWP(v)/EWP(j)/T/ETC(m)-6 WW/RM

ACC NR: AP6001494

(A)

SOURCE CODE: UR/0191/65/000/012/0012/0014

AUTHORS: Trotyanskaya, Ye. B.; Venkova, Ye. S.; Pavlova, A. P.

ORG: none

TITLE: Structural plasticization of epoxide resins

1544/5

39  
8.

SOURCE: Plasticheskiye massy, no. 12, 1965, 12-14

TOPIC TAGS: epoxy plastic, plasticizer, copolymer, adhesive / ED-6 epoxide resin

ABSTRACT: This article deals with the preparation of phorylic resins (molecular weight of 400--600) by polycondensation of monophenylphosphate dichloroanhydride with resorcinol (I), hydroquinone (II), p,p'-dihydroxydiphenylmethane, and p,p'-dihydroxydiphenylisopropane according to a method described earlier (U. S. Pat. 2616873; Brit. Pat. 679834). Preparation and properties of bulk copolymer obtained by addition of I or II to epoxide resin ED-6 are also described. The work was undertaken in order to improve the impact strength and adhesive properties of polyepoxides. It was established that phorylic resins in bulk polymers function as structural plasticizers, considerably increasing impact and tensile strength of cast products and of adhesive films, at the same time lowering their

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UDC: 678.644.42'5:678.049

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ACC NR: AP6001494

glass point. Addition of dicyandiamide (III) enhances both properties, as can be seen in Fig. 1.

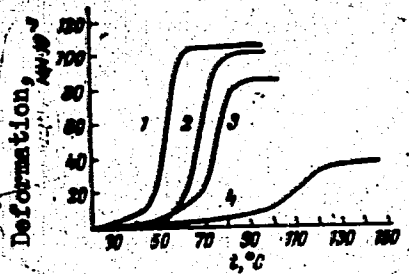


Fig. 1. Glass point of cured block polymers from epoxide and phorylic resins and epoxide resin cured with dicyandiamide:

- 1 - bulk polymer from ED-6 and II, cured at 160C for 12 hours;
- 2 and 3 - bulk polymer from ED-6 and II, cured with III (2-III added after 4 hours heating of ED-6 with II at 160C ; 3 - III added to the mixture of ED-6 and II at the start);
- 4 - ED-6 cured with III.

Orig. art. has: 3 tables, 3 figures, and 1 structure.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 004

Card 2/2 SIM

SOCHIVKO, L.F.; PAVLOVA, A.P.

Characteristics of the spectra of the absorption of blood following  
use of various anticoagulants. Lab.delo 6 no.6:35-39 N-D '60.

(MIRA 13:11)

1. Samostoyatel'noye konstruktorskoye technologicheskoye byuro  
biologicheskogo i fiziologicheskogo priborostroyeniya, Leningrad.

(BLOOD—ANALYSIS AND CHEMISTRY)

(ANTICOAGULANTS (MEDICINE))



PAVLOVA, A.P.

Find of representatives of the genus *Fasciphyllum* in Ludlow  
sediments of the Tien Shan. Izv. AN Kir. SSR. Ser. est. i tekhn. nauk  
4 no.7:95-96 '62. (MIRA 16:3)  
(Tien Shan--Corals, Fossil)

BYSTROV, B.A.; PAVLOVA, A.P.

Respiration intensity of pumpkin seeds in connection with the  
quality of fertilization. Fiziol.rast.2 no.5:444-446 S-O '55.  
(MLBA 9:2)

1.Flodovoshchnoy institut imeni I.V.Michurina, Michurinsk.  
(Pumpkin seed) (Plants--Respiration)

PAVLOVA, A.P., nauchnyy sotrudnik

Protecting the vision of adjusters of automatic machines with  
condensor electrode welding units. Gig. i san. 25 no. 5:35-38  
My '60. (MIRA 13:10)

1. Iz Saratovskogo instituta gigiyeny i profpatologii.  
(WELDING—HYGIENIC ASPECTS) (EYE—WOUNDS AND INJURIES)

TROSTYANSKAYA, Ye.B.; VENKOVA, Ye.S.; PAVLOVA, A.P.; IVANCHIKOVA, M.S.

Synthesis of hardening polyester acrylates in the presence of  
insoluble polyelectrolytes. Plast.massy no.2:12-13 '63.

(MIRA 16:2)

(Acrylic acid)

(Esters)

(Electrolytes)