SOFRONOV, B.N.

Mechanism and use of Boyden's reaction. Lab. delo no.9: 542-545 '64. (MIRA 17:12)

1. Otdel mikrobiologii (zaveduyushchiy - chlen-korrespondent AMN SSSR prof. V.I. Ioffe) Instituta eksperimental'noy meditsiny (direktor - deystvitel'nyy chlen AMN SSSR prof. D.A. Biryukov), Leningrad.

Engelia, B.E.: Distant, V.A.

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DIL'MAN, V.M.; SOFRONOV, B.N.

Induction of immunological tolerance to protein hormones. Vop. onk. 11 no.3:61-63 '65. (MIRA 18:6)

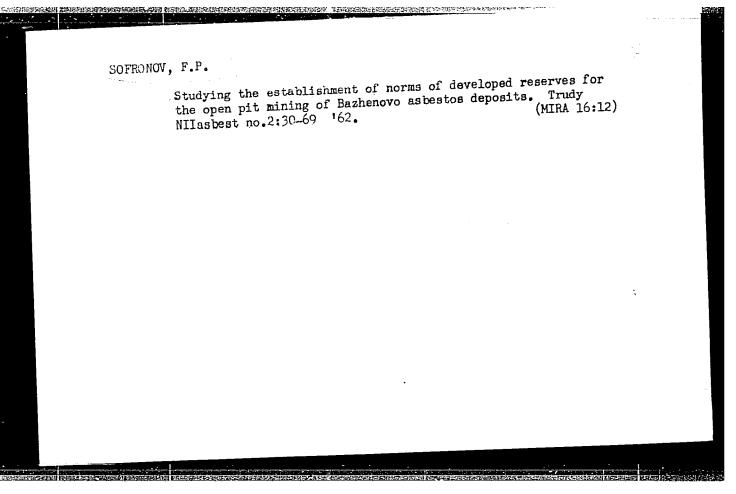
1. Iz laboratorii endokrinologii Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov) i otdela mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. V.I. Ioffe) Instituta eksperimental'noy meditsiny AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. D.A. Biryukov).

KOROLEV, A. A.; SOFRONOV, F. P.

Asbestos

Mechanization of laborious processes at asbestos concentrating plants. A. A. Korolev, F. P. Sofronov. Mekh. trud. rab 6 No. 6 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.



**第三次,在1980年,1980年,1980年,1980年,1980年,1980年,1980年,1980年,1980年,1980年,1980年,1980年,1980年** 

SOFRONUV, F.P.; TITARENKO, P.Ya.; TUTOV, M.P.; LISIN, G.Ya.; SONIN, B.A.

"Deep open-pit mines" by M.G.Hovozhilov, V.G.Selianin. Gor. zhur no.4:
(MIR 16:4)
77-78 Ap '63.
(Strip mining) (Novozhilov, M.G.) (Selianin, V.G.)

TITARENKO, Petr Yakovlevich; TEREKHIN, Vyacheslav Nikolayevich; REMENNIK, Lev Moiseyevich; SUKHANOV, Afanasiy Filimonovich; NAZAROV, Petr Petrovich; KUTUZOV, Boris Nikolayevich; TOKAR', Moisey Grigor'yevich; SONIN, Boris Aleksandrovich; SOFRONOV, Fedor Petrovich; GEYMAN, L.M., red.izd-va; LAVRENT'YEVA, L.G., tekhn. red.

。 《表现是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,

[New developments in boring and blasting operations in asbestos open pit mines] Novoe v burovzryvnykh rabotakh na asbestovykh kar'erakh. Moskva, Gosgortekhizdat, 1963. 68 p. (MIRA 16:10)

(Asbestos mines and mining) (Blasting)

4091 SOFRONOV, G. A.

Vliyanie intensivnosti vtorichnogo progreva pressovannoy drevesiny na prochnost' ee pri nekotorykh vidakh deystviya sil. L., 1954 18 c. 20 cm. (Leningr. ordea Lenina lesotekhn. Akad. im. S. M. Kirova). 100 ekz. Bespl. - (54-56591)

SOFRONOV, G. A.

"Influence of Intensity of Secondary Heating of Compressed Lignin on Its Strength in the Presence of Certain Kinds of Forces." Cand Tech Sci, Leningrad Order of Lenin Forestry Engineering Acad imeni S. M. Kirov, Leningrad, 1954. (KL, No 3, Jan 55)

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

AGEYEV, L.M., kand. tekhn. nauk, dotsent; BABIN, F.P., kand. tekhn. nauk, dotsent; SMIRNOV, V.A., doktor tekhn. nauk, prof.; SOFRONOV, G.F., kand. tekhn. nauk, dotsent, red.; IVANOV-RECHNOY, I.Ya., red.; NAUMOV, K.M., tekhn. red.

[Technology of the main branches of industry] Tekhnologiia vazhneishikh otraslei promyshlennosti; uchebnoe posobie dlia vysshikh partiinykh shkol. Pod red. G.V.Sofronova. Moskva, Izd-vo VPSh i AON pri
Tsk KPSS. Part 4. [Food industry] Pishchevaia promyshlennost. 1961.

(MIRA 14:6)

(Food industry)

FISHMAN, Mark Veniaminovich; GOLDIN, Boris Alekseyevich; SOFRONOV, G.P., kand. geol.-miner. nauk, otv. red.; ZHUKOVA, T.P., red.izd-va; BOCHEVER, V.T., tekhn.red.

[Granitoids of the central part of the subarctic Ural Mountain region] Granitoidy tsentral noi chasti Pripoliarnogo Urala. Moskva, Izd-vo AN SSSR, 1963. 105 p. (MIRA 17:1)

24579

s/137/61/000/005/032/060 A006/A106

2240

AUTHORS:

Kudryavtsev, V. I., and Sofronov, G. V.

TITLE:

Accurate determination of the periods of a boron carbide lattice composed of B<sub>2.75</sub>C - B<sub>6.75</sub>C from roentgenograms obtained in the range of large dispersion angles (0  $\rightarrow$  90°)

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 5, 1961, 11-12, abstract 5Zh85 ("Tr. Seminara po zharostoykim materialam" [In-t metallokeramiki i spets. splavov AN USSR, no. 5] Kiyev, 1960, 52-64)

A roentgenographical investigation was made of solid solutions on B-carbide base. Acicular designs of collimators are suggested for a Debye camera and a camera with rear exposure on a flat container, so that lines may be obtained through angles 9 approaching 90°. Exposure conditions are found (on Cu-Co, Ni, and Cr radiation) where the lines are obtained through  $\theta > 85^{\circ}$ . The accuracy of determining the periods is 0.001% (without any extrapolation precision). In the B<sub>2.75</sub>C - B<sub>4.55</sub>C range the periods are practically constant (a 5.5883 - 5.5905, c 12.044 - 12.055 kX). It is supposed that in this zone solid solutions with vacancies are formed in the boric or carbon portions of the lattice. Within the

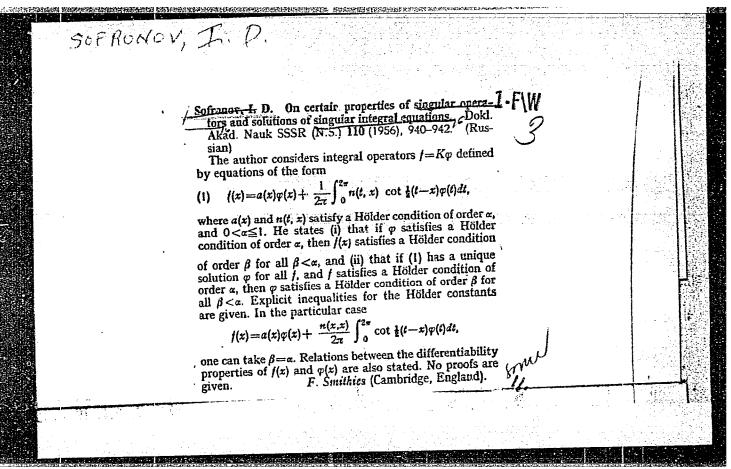
Card 1/2

SOFRCKOV, I. D.

SOFRCNOV, I. D. -- "Approximate Solution of Singular Integral Equations." Moscow State U imeni M. V. Lomonosov, Moscow, 1955. (Dissertations for the Degree of Candidate in Physicomathematical Science)

SO: Knizhnaya Letopis: No. 39, 24 Sept 55

SEFRENCY, I.D.	
Transactions of the Third All-union Mathematical Congress ( Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel stvo AN SSSR, Moscow,	1108825 Cont. Moscow, 1956, 2370pp
Sofronov, I. D. (Moscow). On Approximate Boltonov Singular Integral Equations.	102-103
Stechkin, S. B. (Moscow). Problem of Absolute Convergence of the Orthogonal Series.	103
There is 1 USSR reference.	
Suvorov, G. D. (Tomsk). On the Continuity of Univalent Mappings of Arbitrary Closed Regions.	103-104
Mention is made of Lavrent'yev, M. A.	
Suyetin, P. K. (Ural'sk). On Polynomials, Which are Orthogonal in Area.	105
Talalyan, A. A. (Yerevan). On the Convergence Almost Everywhere of Orthogonal Series.	105
Card 32/80	



SOFRONOV, I.D.

SUBJECT USSR/MATHEMATICS/Integral equations CARD 1/2 PG - 601

AUTHOR SOFRONOV. I.D.

TITLE On the approximative solution of integral equations.

PERIODICAL Doklady Akad. Nauk 111, 37-39 (1956)

reviewed 2/1957

Let be well-known that the singular integral equation

 $\mathbb{E}\varphi = \mathbf{a}(\mathbf{x}) \varphi(\mathbf{x}) + \frac{1}{2\pi} \int_{0}^{2\pi} \mathbf{n}(\mathbf{t},\mathbf{x}) \operatorname{ctg} \frac{\mathbf{t}-\mathbf{x}}{2} \varphi(\mathbf{t}) d\mathbf{t} = \mathbf{f}(\mathbf{x})$ 

for an arbitrary f(x) possesses a unique solution  $\varphi$ . The author's problem is to construct a simpler equation  $\overline{K} \varphi = \overline{f}$ , the solution  $\overline{\varphi}$  of which satisfies the following conditions: 1) in a certain sense  $\varphi$  is little different from  $\varphi$ ; 2)  $\varphi$  can be found by aid of modern computers. Two methods are proposed: 1. As an approximative equation  $\overline{K} \varphi = \overline{f}$  one takes a system of linear algebraic equations

 $a_{i} \widetilde{\varphi}_{i} + \sum_{k=0}^{n-1} a_{ik} \varphi_{k} = f_{i} \quad (i=0,1,...n-1)$ 

where  $x_{i} = ih$ ,  $h = \frac{2\pi}{n}$ ,  $a_{i} = a(x_{i})$ ,  $f_{i} = f(x_{i})$ ,

Doklady Akad. Nauk 111, 37-39 (1956)

$$\mathbf{a}_{\mathbf{i}\mathbf{k}} = \frac{1}{2\pi} \int_{\mathbf{x}_{\mathbf{k}-1}}^{\mathbf{x}_{\mathbf{k}+1}} \mathbf{n}(\mathbf{f}, \mathbf{x}_{\mathbf{i}}) \operatorname{ctg} \frac{\mathbf{t} - \mathbf{x}_{\mathbf{i}}}{2} \, \eta_{\mathbf{k}}(\mathbf{t}) \operatorname{dt}; \qquad \eta_{\mathbf{k}}(\mathbf{t}) = \begin{cases} \frac{\mathbf{t} - \mathbf{x}_{\mathbf{k}-1}}{h}, & \mathbf{t} \leq \mathbf{x}_{\mathbf{k}} \\ \frac{\mathbf{x}_{\mathbf{k}+1} - \mathbf{t}}{h}, & \mathbf{t} \geq \mathbf{x}_{\mathbf{k}} \end{cases}.$$

$$\gamma_{k}(t) = \begin{cases} \frac{t-x_{k-1}}{h}, & t \leq x_{k} \\ \frac{x_{k+1}-t}{h}, & t \geq x_{k} \end{cases}$$

For the computation of a the principal value of the integral is taken.

2. One takes the system

$$a_{i} \varphi'_{i} + \frac{2}{2n+1} \sum_{k=0}^{2n} n_{ik} \operatorname{ctg} \frac{x_{k} - x_{i}}{2} \varphi'_{k} = f_{i}$$
 (i=0,1,...2n-1),

where 
$$x_i = ih$$
,  $h = \frac{\pi}{n}$ ,  $n_{ik} = n(x_i, x_k)$ ,  $a_i = a(x_i)$ ,  $f_i = f(x_i)$ .

Z'means that the summation runs with respect to those k only for which k-i

The second method is commended to be more suitable, the solvability for  $\widetilde{\varphi}$ is proved and the appearing error is estimated.

INSTITUTION: Lomonossow University, Moscow.

moscow State Pelagogical Inst. in V. 1. Lenin

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S/208/62/002/003/010/011 I040/I219

**AUTHOR** 

Sofronov, I. D. (Moscow)

TITLE .

On the problem of motion of a tangential discontinuity in an ideal incompressible fluid

PERIODICAL

Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 2, no. 3, 1962, 494-499

TEXT: The equation of motion of a curve L of tangential discontinuity in an ideal incompressible fluid is obtained in the complex form

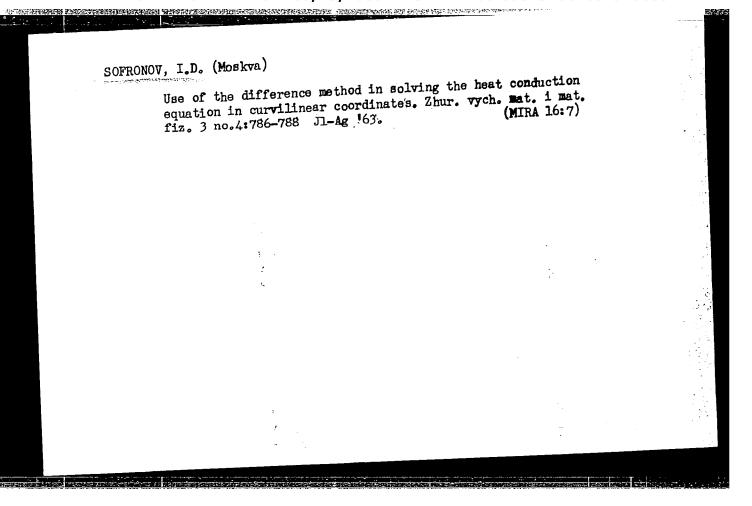
$$\frac{\partial \bar{z}_0}{\partial t} = -\frac{1}{2\pi_i} \int_L \frac{\Gamma(\sigma) d\sigma}{z - z_0}$$

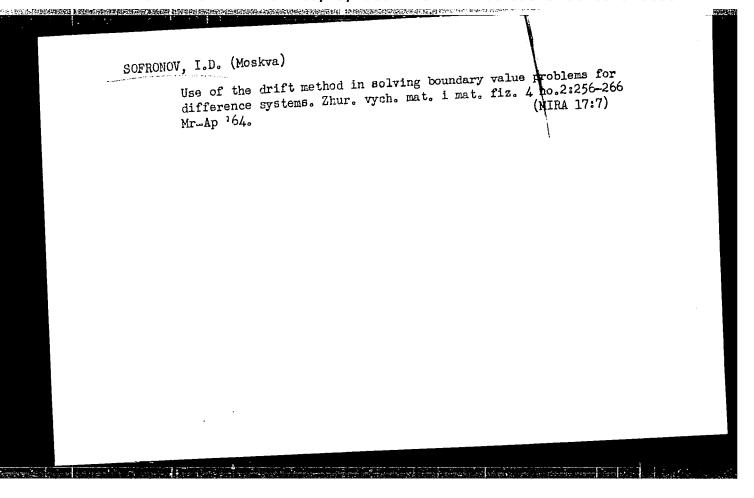
where  $\sigma$  is a parameter along the curve and  $\Gamma(\sigma)$  is the intensity of the whirls distributed on L. The particular cases treated are those when  $\Gamma$  is constant and L is either a straight line parallel to the x axis or a circle with center at the origin, and when the initial data are periodic. In the latter case examples are given when L is sinusoidal, elliptical, or quadratic based on the reduction of the singular integro-differential equation (1) to a system of difference equations. There are 6 figures.

SUBMITTED

November 24, 1961

Card 1/1





L 56470-65 ENT(d) IJP(c) ACCESSION NR: AP5009398

\$/0208/65/005/002/0347/0350 518:517.944/.947

AUTHOR: Sofronov, I. D. (Moscow)

16 B

TITLE: A difference method using diagonal paths for the solution of the heat

equation

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v.5, no. 2,

1965, 347-350

TOPIC TAGS: heat conduction equation, parabolic equation, approximation method, numerical solution

ABSTRACT: A usual method for the numerical solution of the heat equation .

$$\frac{\partial a}{\partial t} = a \left( \frac{\partial^2 a}{\partial \xi^2} + \frac{\partial^2 a}{\partial \eta^2} \right) + b \frac{\partial a}{\partial \xi} + c \frac{\partial a}{\partial \eta}$$

in a curvilinear qadrilateral D with boundary  $\Gamma$ , along which m | r = h is to map the region D onto a square in plane (x,y) according to the transformation obtaining the new equation:  $\xi = \phi(x, y), \quad \eta = \psi(x, y),$ 

Card 1/2

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	$-2B\frac{\partial^3 u}{\partial x \partial y} + C\frac{\partial^2 u}{\partial y^2} + D\frac{\partial u}{\partial x} + E\frac{\partial u}{\partial y},$ is constructed. It then appear	rs that the derivative	
for which a difference method is $\frac{\partial^2 u}{\partial x^2 y}$ is either completely. This latter difficulty may some tary diagonal paths. The expansis made of its accuracy. Limit Orig. art. has: 35 formulas,	etimes be by-passed by the intended difference scheme is constantions of the method are brief	roduction of supplemen- tructed and an estimate	
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#### CIA-RDP86-00513R001651920005-2 "APPROVED FOR RELEASE: 08/25/2000

SOFRONOV, I.D. (Moskva) Difference scheme with diagonal drift directions for solving a

heat conduction equation. Zhur. vych. mat. i mat. fiz. 5 no.2: (MIRA 18:5)

347-350 Mr-Ap 165.

A volume indicator for frequency range from 300c/per sec. to 300 kc/per sec. p. 305

SDELOVACI TECH TKA (Ministrestro strojirenstvi), Vol. 4, No. 10, Oct. 1956
Fraha, Tzechoslovakia

SCURTE: East European List (ELAL) Library of Congress, Vol. 5, No. 1, January 1957

SOFREMOV, K,

SCFRONOV, K.

Telecommunication measuring instruments.

p. 10 (Kovoexport) Vol. 3, no. 8, 1957, Fraha, Czechoslovakia

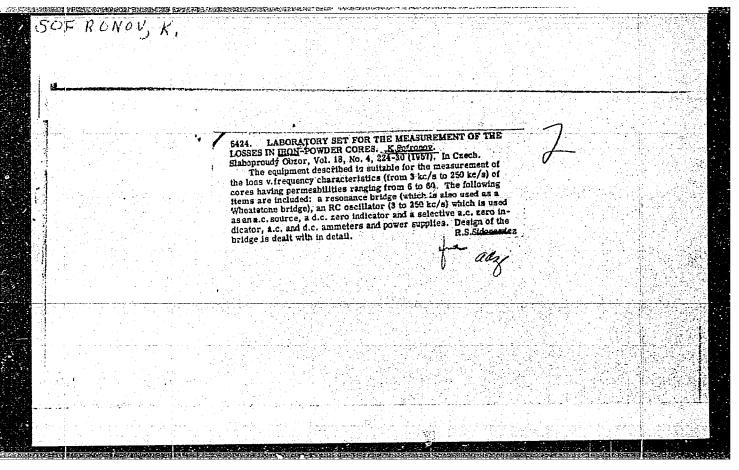
SO: MCNTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

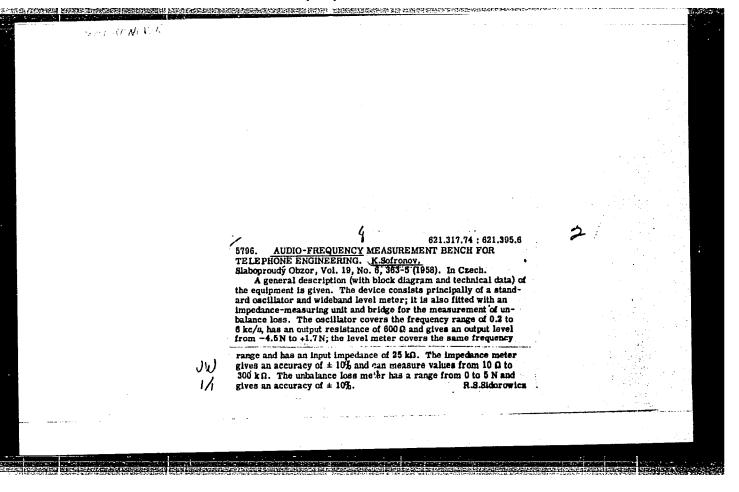
Sofronov, K.

Sofronov, K. Intermediate-frequency measurement set for communications engineering. p. 58.

Vol. 18, no. 1, Jan. 1957 SLAEOPROUDY OBZOR TECHNOLOGY Czechoslovakia

So. East European Accessions, Vol. 6, May 1957.





SOFRONOV, K.

"Instrument for measuring the h-parameters of transistors." p. 157.

SLABOPROUDY OBZOR. (MINISTERSTVO PRESNEHO STROJIRENSTVI, MINISTERSTVO SPOJU A VEDECKA TECHNICKA SPOLECNOST PRO ELEKTROTECHNIKU PRI CSAV.) Praha, Czechoslovakia, Vol. 20, no. 3, Mar. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959. Uncl.

SOFRONOV, K.

Instrument for measuring the phase shift, loss and gain, within the 20 kc/s to 5 Mc/s frequency range. P 762

SLABOPROUDY OBZOR (Ministerstvo vscobenibo strojirenstvi, Ministerstvo spoju a Ceskoslovenska vedecko-technicka spolecnost, sekce elektrotechnika) Praha, Czechoslovakia, Vol. 20, no. 12 Dec. 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 9, no. 2, Feb. 1960

Uncl.

SOFRONOV, Kvetoslav, inz.

Prague exhibition of measuring instruments. Sdel tech 10 no.6:208-210 Je '62.

SOFRONOV, Kvetoslav, inz.

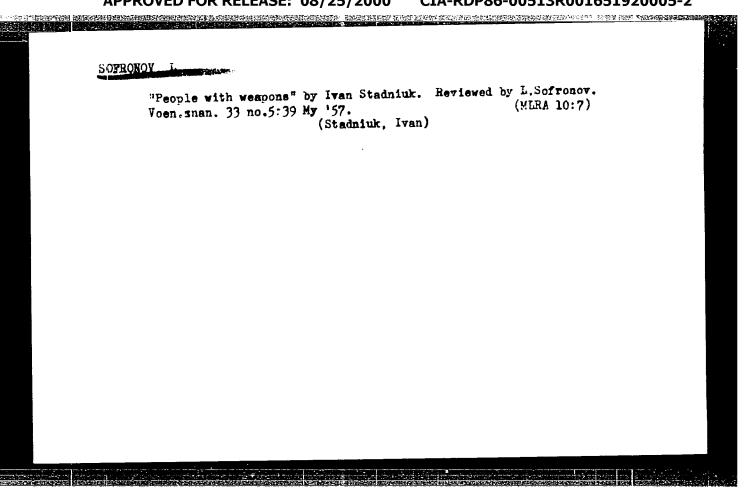
Medium-frequency characterograph. Slaboproudy obzor 24 no.10: 590-596 0 '63.

1. Vyzkumny ustav telekomunikaci, Praha.

SOFROMOV, Kvotoslav, inz.

New measu ing instruments for wire communication engineering. Cs spoje 9 no.6:21-23 D '64.

1. Research Institute of Telecommunication.

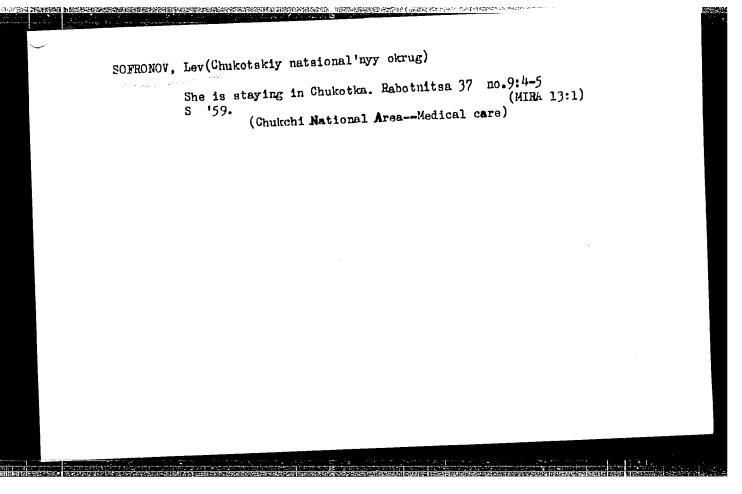


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SOFHOROV, Lev.

Competition continues. Rabotnitsa 36 no.11:1-2 N '58.

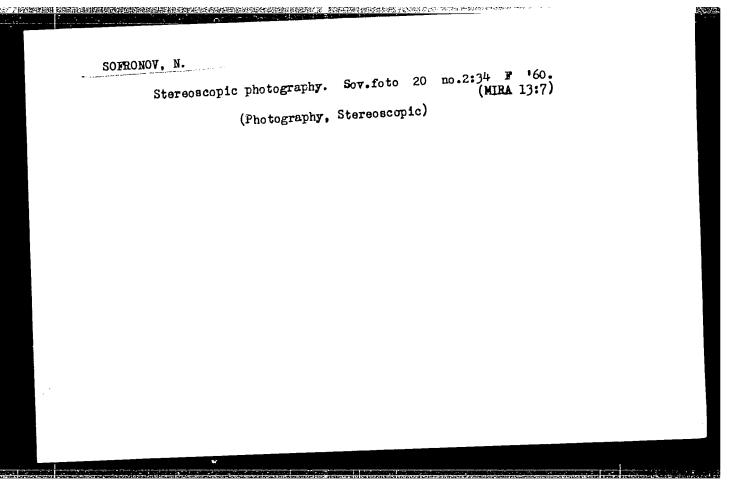
(Tiflis--Shoe industry)



SCHOULV, M.A.

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1. Institut less i drivesorry Statechage About maps 18 (111), Krasnoyarsk.



SOFRONOV, N. S.

"Experimental Study of Pharmacological Preparations Used in Sleep Therapy," No.I"Soporific Action of Barbamyl, Hedonal, Narcolane, Chloral Hydrate, Ethyl Alcohol, and Double Combinations of hem," Trudy Instituta fiziologii im. Pavlov, No.1, pp 243-250, 1952

Laboratory of Experimental Pharmacology

Translation No.493, 5 Dec 55

SOFRONOV, N.S.; TSOBKALLO, G.I., zaveduyushchiy.

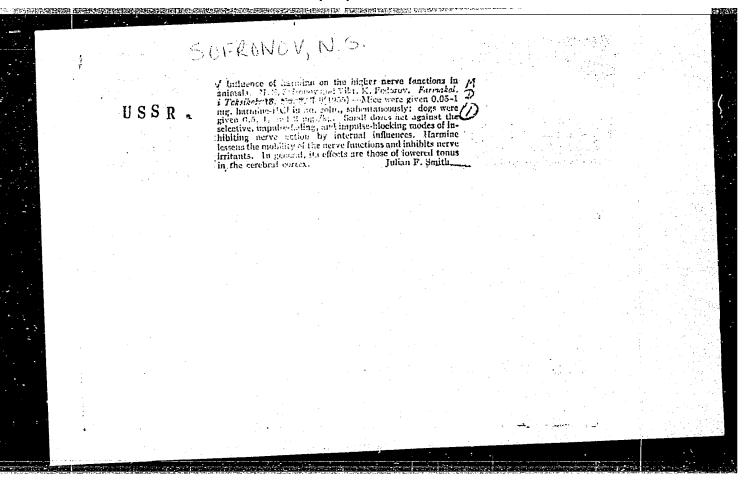
Experimental study of pharmacological agents for sleep therapy. Second report: Study of the soporific effect of three- and four-component mixtures of narcotics. Trudy Inst.fiziol. 1:251-258 \*52. (MLRA 6:8)

1. Laboratoriya eksperimental noy farmakologii.

(Narcotics)

### SOFRONOV, N.S.

Effect of narcolan (tribromoethyl alcohol) on higher nervous function in dogs. Zhur.vyssh.nerv.deiat. 5 no.4:537-546 Jl-Ag '55. (MLRA 8:11)



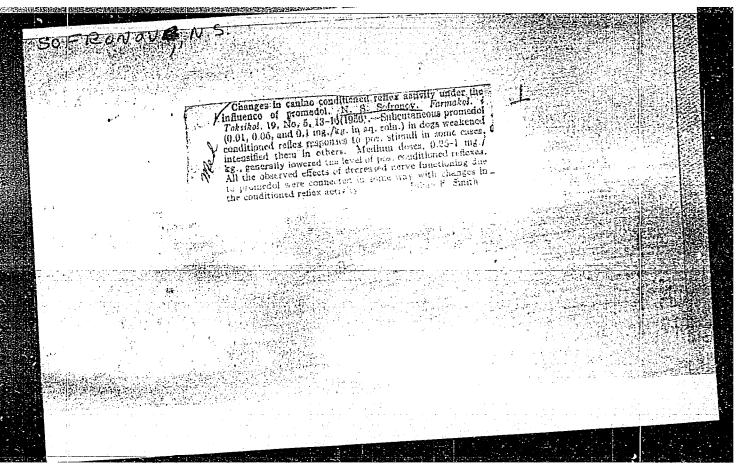
SOFRONOV, N.S.; FEDOROV, Viktor K.

Effect of harmine on conditioned reflex activity in mice. Trudy
Inst.fiziol. 5:125-130 '56.

1. Laboratoriya eksperimental'noy farmakologii, maveduyushchiy G.I.TSobkallo, i Laboratoriya eksperimental'noy genetiki vysshey
mervnoy deyatel'nosti, zaveduyushchiy - V.K.Krasuskiy
(HARMINE)

(CONDITIONED RESPONSE)

Trudy Inst. fiz101	on the duration of drug-induced sleep in rabb. 5:131-134 *56. (MIRA 1	
1. Laboratoriya e	ksperimental noy farmakologii. Zaveduyushchiy	-
G.I.TSobkallo. (HARMINE)	(SIEEP)	



<b>C</b> t do	nanges in the higher nervoys	s activity of dogs foudy Inst.fiziol. 8:4	26-432 59.	
dr	, Laboratoriya farmakologii uyushchiy - G.I. Tsobkallo)	tsentral'noy nervnoy Instituta fiziologii	(MIRA 13:5) sistemy (zave- im, I.P.	1
Pa	avlova AN SSSR. (NOSTAL)	(CONDITIONED RESPO	nsr)	

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SOFRONOV, N.S.; TSOBKALLO, G.I.

Changes in the higher nervous activity of dogs following the chronic administration of amobarbital. Trudy Inst.fiziol. 8: (MIRA 13:5) 433-440 159.

1. Laboratoriya farmakologii tsentral noy nervnoy sistemy (zaveduyushchiy - G.I. Tsobkallo) Instituta fiziologii im. I.P. Paylova (CONDITIONED RESPONSE) AN SSSR.

(AMOBARBITAL)

SOFRONOV, N.S., BOLONDINSKIY, V.K.

Received of dogs with the weak type nervous system to the effect of neurotropic substances. Zhur.vys.nerv.deiat. 14 nc.9:1013-1018
NAM 164. (MIRA 18 6)

1. Payley Institute of Physiology, U.S.S.R. Academy of Sciences, Kaltushi.

Change in conditioned reflexes in dogs after a single dose of barbamyl. Zhur.vys.nerv.deiat. 10 no.6:880-883 N-D '60. (MIRA 14:1)

1. Leboratoriya farmakologii tsentral'hoy nervnoy sistemy Instituta fiziologii im. I.P.Paylova Akademii nauk SSSR. fiziologii (CONDITIONED RESPONSE)

(AMOBARBITAL)

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Brondwich, F.M.; Assemblev, N.C.; TSUBYALLO, C.I.

First of complyish on the conditioned Programs activity. Hauch.

Loop. Inst.fiziol. SH STOR no.3191-94 175.

(AIRA 1875)

1. Inboratoriya newrofarmakologii (zav. - G.i.TCobkello) Enstituta
Fiziologii imeni Pavlova AN SCSR.
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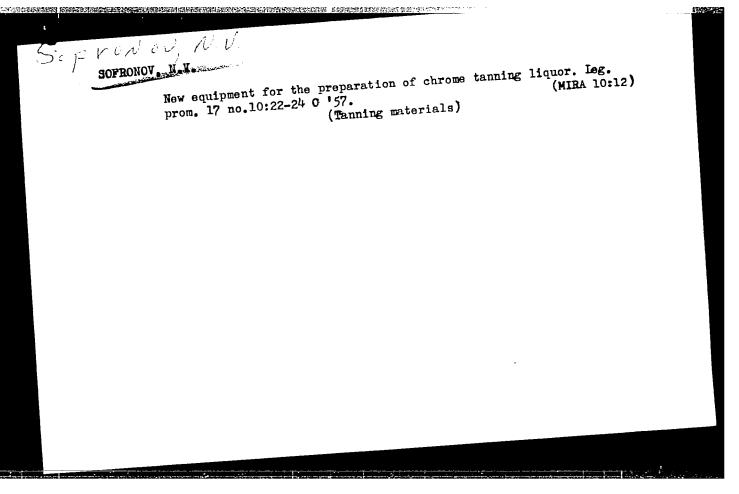
SOFRONOV, N. V

Improving working conditions in leather and fur enterprises.

Sots.trud no.2:126-127 F '57. (MLRA 10:5)

1. Nauchmyy sotrudnik Kazanskogo nauchno-issledovatel skogo instituta okhrany truda.

(Chromium compounds)
(Tanning)



SOFROMOV, H. V.; LYMOV, H. V.

Sheep Botfly

Control of larvae of the sheep botfly in karabuls, Kar. i over., 5, No. 3, 1952.

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SOFRONOV, N.V., mladshiy nauchnyy sotrudnik.

Diagnostic value of the blood drop method in brucellosis of sheep; author's abstract. Veterinariia 30 no.10:39-41 0 '53.

1. Uzbekskiy nauchno-issledovatel'skiy veterinarnyy institut.

(Brucellosis in sheep)

Our experience in immunizing sheep with vaccine from strain 19.

Veterinaria 35 no.10:28-31 0 '58.

1.Uzbekistanskiy nauchno-issledovatel'skiy veterinarnyy institut
(for Sofronov). 2. Glavnyy vetvrach sovkhoza "Ulus." (for Novayev).

(Brucellosis in sheep)

SOFRONOV, N.V., kand.veterin.nauk

Thermal apparatus for the disinfection of sewage contaminated with brucella. Veterinariia 36 no.10:58 0 '59.

(MIRA 13:1)

1. Nauchno-issledovatel'skiy institut veterinarii Uzbekskoy Akademii sel'skokhozyaystvennykh nauk. (Sewage--Purification) (Brucella)

SOFRONOV, N.V., kand.veterinarnykh nauk

Vaccination of farm animals against brucellosis on collective and state farms of the Uzbek S.S.R. Trudy Uz.nauch.-issl.inst. vet. 14:73-80 '61. (MIRA 16:2) (Uzbekistan-Brucellosis-Preventive inoculation)

SOFRONOV, N.Y., kand.veterinamykh nauk

Effectiveness of a thermal unit in disinfecting waste water contaminated with Brucella. Trudy Uz.nauch.-issl.inst.vet.

(MIRA 16:2)

(Sewage--Purification) (Brucella)

ACCESSION NR: AP4018390

5/0120/64/000/001/0190/0193

AUTHOR: Vasil'yeva, I. A.; Sofronov, P. A.

TITLE: Measuring the speed of hot-gas flow by photographing a spark mark

SOURCE: Pribory\* i tekhnika eksperimenta, no. 1, 1964, 190-193

TOPIC TAGS: hot gas, hot gas flow, spark mark, SFR photorecorder, combustion chamber

ABSTRACT: A method for measuring the speed of a high-temperature gas flow is described. An electric spark excites the gas and forms a comet-shaped gas mark. The motion of the spark is recorded on a photofilm by mirror scanning. The method is suitable for recording the speed fields both along and across the hot gas stream. As the layout (see Enclosure 1) shows, the gas flow is upward and the spark gap is horizontal. The gas region optically excited by this spark is carried along in the gas flow. The image is scanned horizontally by a mirror so that the inclined trace of the luminous mark is formed on the photofilm. Then, the speed of the gas flow can be determined from the known scanning speed and

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ACCESSION NR: AP4018390

the enlargement. A Soviet-make SFR photorecorder was used in the experiments. It was estimated that the minimum measurable flow speed is 40 m/sec and the maximum speed is 25,000 m/sec. The error depends on the speed measured; at extreme speeds, the error is as high as 30%, in the middle it is 3% or less. Speeds from 280 to 880 m/sec were measured in the experiments at an estimated flow temperature of about 3,000C. "The authors are deeply thankful to V. L. Granovskiy for his constant attention and valuable advice. E. V. Py\*senkov, B. N. Samodelov, and A. M. Kopy\*lova took part in preparing and conducting the experiments, for which the authors wish to thank them." Orig. art. has: 5 figures, 1 formula, and 1 table.

ASSOCIATION: Vsesoyuzny\*y elektrotekhnicheskiy institut (All-Union \_\_\_

SUBMITTED: 04 Dec62

DATE ACQ: 18 Mar64

ENCL: 01

SUB CODE: PH, PR

NO REF SOV: 002

OTHER: 009

Card 2/3'

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SOFRONOV, P.A.; KRAYTSBERG, M.I.; MYL'NIKOV, I.I.; SMIRNOV, B.V.

Silicon rectifiers for enterprises of the refractories industry. Ogneupory 29 no. 5:201-205 '64. (MIRA 17:7)

1. Moskovskiy inzhenerno-stroitel'nyy institut imeni V.V. Kuybysheva (for Sofronov, Kraytsberg). 2. Chasov-Yarskiy kombinat ogneupornykh izdeliy (for Myl'nikov).

SOFRONOV, P.A.; MYL'NIKOV, I.I.

Thyristor controlled rectifier for feeding magnetic separators.

Ogneupory 29 no.12:541-544 164. (MIPA 18:1)

1. Moskovskiy inzhenerno-stroitelinyy institut im. V.V.Kuybysheva for Sofronov). 2. Chasov-Yarskiy kombinat ogneupornykh izdeliy (for Mylinikov).

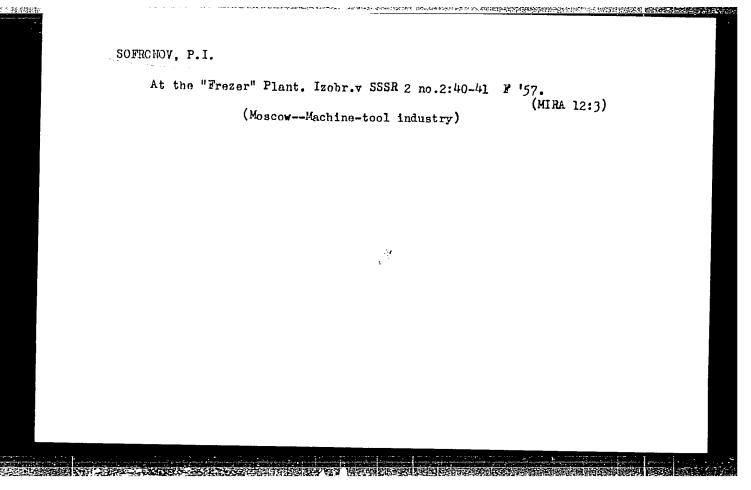
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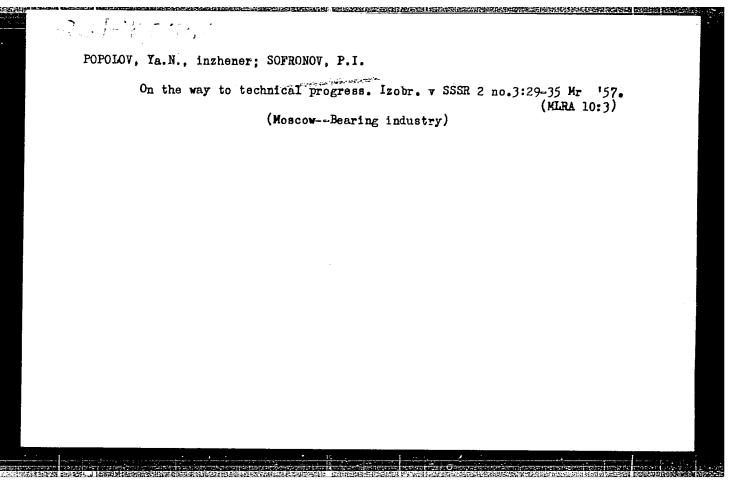
SOFRONOV, P.A.; GLUSHKOV, G.V.; MYL'NIKOV, I.I.; SMIRNOV, B.V.

Substation with semiconductor rectifiers for current supply of electric trucks. Ogneupory 30 no.10:7-9 '65.

(MIRA 18:10)

1. Moskovskiy inzhenerno-stroitel'nyy institut im. V.V. Knybysheva (for Sofronov, Glushkov). 2. Chasov-Yarskiy kombinat cgneupornykh izdeliy (for Myl'nikov).





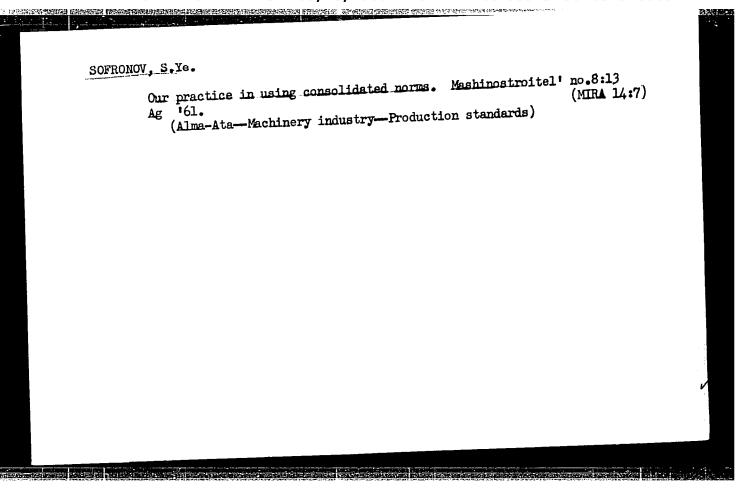
**电影观众时间,这**是这种情况的,但是是是是是是是是是是是是一种的一种,也是是是一种的人,我们是是是是是这些人的,我们是是是是是是是是是是是是是是是是我们的,我们就

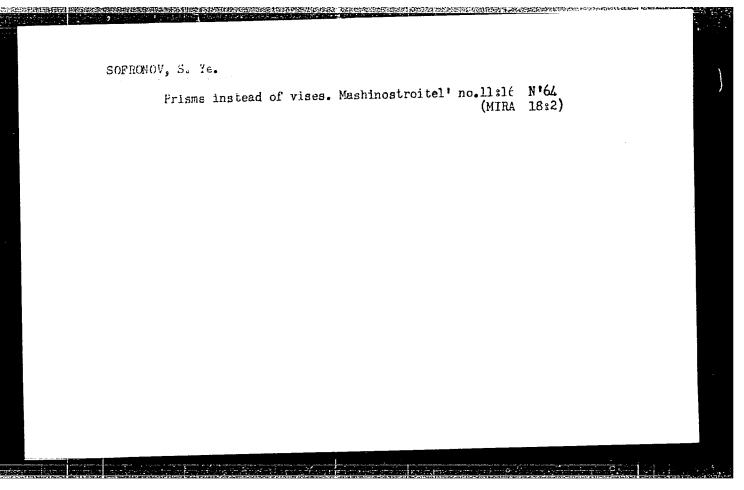
SOFRONOV , P.S.; FEDOROV , V.K.

Mechanism of the action of harmine on the higher nervous activity in animals. Trudy Vses. ob-va fiziol.; biokhim. i farm. 4:175-179
158. (MIRA 14:2)

1. Laboratoriya eksperimental'noy farmakologii (zav. prof. G.I., TSobkallo) i laboratoriya eksperimental'noy genetiki vysshey nervnoy deyatel'nosti (zav. V.K. Krasusskiy) Institut fiziologii imeni I.P. Pavlova AN SSSR.

(HARMINE) (NERVOUS SYSTEM)





SOFRONOV, V., geolog; MAUMOV, V., inzh.

Construction in regions of the Far North. Sel'. stroi. 15 no.11:5-8 N '60.

1. Dal'stroyproyekt.
(Arctic regions—Foundations) (Frozen ground)

PHASE I BOOK EXPLOITATION

sov/5136

Tereshin, Aleksey Il'ich, and Vladimir Aleksandrovich Sofronov

Spravochnik po ekspluatatsii radioizmeritel'nykh priborov (Manual for the Operation of Radio Measuring Instruments) 2d ed., unrev. Kiyev, Gostekhizdat UKrSSR, 1960. 319 p. 10,000 copies printed.

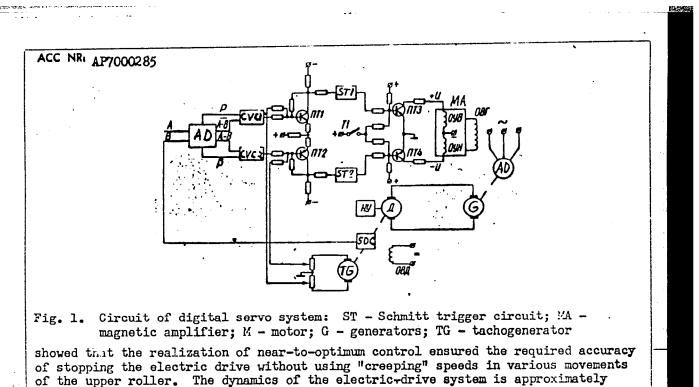
Ed.: L. Polyanskaya; Tech. Ed.: S. Matusevich.

PURPOSE: This manual is intended for technical personnel concerned with the design, operation, and maintenance of radio engineering equipment and radio measuring apparatus.

COVERAGE: The manual presents the basic technical characteristics and operating principles of radio measuring instruments in general use. Procedures for readying them for use and basic problems of their operation are discussed. No personalities are mentioned. There are 7 references, all Soviet.

TABLE OF CONTENTS:

Foreword Card-1/5



described by a second-order linear differential equation. The time constant is 1.2

sec. Orig. art. has: 1 diagram and 1 graph.
SUB COLE: 09,13/SUBM DATE: 26Apr65/ ORIG REF: 003
.Card 2/2

KOGAN, V.B., kandidat tekhnicheskikh nauk; SOFRONOV, V.M.

Calculation of gas content in an electrolyte in selecting electrolytic cell sizes. Khim.prom. no.2:94-96 Mr 154.

(MLRA 7:6)

是一个人的人们,这个人的,这个人的现在分词,但是这个人的人,但是这个人的人的人,但是是一个人的人,也是是这个人的人的人,不是一个人,他们也是一个人,我们是一个人

1. Gosudarstvennyy institut prikladnoy khimii, Laboratoriya fizicheskoy khimii. (Electrolytes--Conductivity)

SOFRONOV, V.S.

(From Material Received by the Edetor on the Treatment and Prevention of Pneumonia).

2. Extract: "Treatment of Infectious Catarrh of the Upper Respiratory Passages" by Assistant V.S. Sofronov (Ul'yanov Agricultural Institute).

Tests of a solution of streptocide -- according to the following prescription: streptocide -- h grams, caffeine -- 2 grams, ethyl alcohol -- 70 grams, glucose -75 grams, distilled water -- 500 grams, for one intravenous injection did not give positive results. Of 30 horses with infectious catarrh of the upper respiratory passes and subject to treatment with this solution (27 in the course of 1-2 months), 27 recovered and 3 died. Page 35 (Veterinariya, No.5, 1952).

SO: U-5638;10 March 1954;p.19;

s/196/62/000/009/015/018 E114/E184

Yermolin, N.P., and Sofronov, V.V. AUTHORS:

Peculiarities of the design and means of improving TITLE:

the accuracy of work of single phase selsyns

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika,

no.9, 1962, 16-17, abstract 9 185. (Izv. Leningr. elektrotekhn. in-ta, no.45, 1961, 208-220)

In the design of single phase selsyns the following TEXT: are specified: voltages of the field U1 and synchronizing windings  $U_2$ , the frequency of field current  $f_1$  c/s, specific synchronizing torque  $m_y$  (g.cm/deg.), the working condition and the completion. The design begins by determining the internal diameter of the stator from the formula

and the length of the stack of laminations Card 1/6

$$\ell_o = 5 D_o \text{ cm}$$

where  $\lambda = 0.78-0.88$  - ratio of the synchronizing winding pitch to the pole pitch;  $\S = 0.8-1.8$ ;

$$K = 2.8 f_1 \left( \frac{k_w \alpha_5 \cdot B_5}{10000 \cdot K_4} \right)^2 \frac{k_M \cdot k_7}{k_r \cdot k_9} \cdot \frac{\beta_q}{1 + \beta_r^2} \quad (g/\deg \cdot cm^4),$$

where B<sub>0</sub> = 3000-6000 - amplitude value of magnetic induction in the air gap, gauss;  $k_W$  = 0.86-0.94 - winding factor of the synchronizing winding;  $k_m$  = 0.20-0.24 - slot filling factor;  $k_r$  = 1.4-2.0 - coefficient of resistance increase of the synchronizing winding on the quadrature axis due to the action of the damping winding on the rotor; in the absence of a damping winding,  $k_r$  = 1;  $k_0$  = (1-0.004)(V-20) - coefficient of resistance increase of the synchronizing winding when the temperature increases from 20° to V0° C;  $\beta_r$  = 0.8-2.4 - ratio of the quadrature axis reactance of the equivalent circuit of Card 2/6

Peculiarities of the design and ... S/196/62/000/009/015/018 E114/E<sub>1</sub>84

the selsyn to its resultant resistance;  $k_{\Pi} = S_{\Pi} \ q/100D_q^2 - 0.10-0.14$ , where  $S_{\Pi} = \text{slot}$  area, mm<sup>2</sup>; q - number of slots per pole per phase. The design coefficient of pole overlap  $\alpha_{\delta} = 0.45-0.55$  for salient pole machines; and  $\alpha_{\delta} = \frac{2}{3} \frac{3}{\sqrt{K_3}}$  for cylindrical machines.  $k_3 = 1.1-1.3$  - saturation coefficient of stator and rotor teeth.

 $k_{\frac{1}{2}} = \frac{\pi c^2 \alpha \delta}{8 \sin \frac{\alpha \delta}{2}}$  - magnetic flux coefficient.

The external diameter and length of the selsyn body can be approximately determined from the formulae  $D_k = (1.9-2.1) D_a$ ;  $L_k = (2.8-3.2) + 0.00$ 

The magnetic circuit of the selsyn is designed basically in the same way as any induction machine. The calculations for the synchronizing windings do not differ from those for a 5-phase stator winding of an induction motor. Specific synchronizing Card 3/6

Peculiarities of the design and ... \$\frac{\$\$5/196/62/000/009/015/018}{\$\$2114/\$E184}\$

torque and changes in the total synchronizing torque M of the slave selsyn as a function of the angle  $\widehat{g}$  - the angular position error with respect to the master selsyn under steady state conditions - can be determined from the formulae:

$$m_y = \frac{20}{f_1} E_q^2 = \frac{x_q}{r_q^2 + x_q^2}, \text{ g.cm/degree;}$$

$$N = \frac{5}{4} \frac{10^{5}}{9.81 \omega_{1}} E_{\phi}^{2} X \left( \frac{x_{q} \sin \theta}{\frac{r_{d}+r_{q}}{2} - \frac{r_{d}-r_{q}}{2} \cos \theta}}{\frac{r_{d}-r_{q}}{2} \cos \theta} \right)^{2} + \left( \frac{x_{d}+x_{q}}{2} - \frac{x_{d}-x_{q}}{2} \cos \theta}{\frac{r_{d}-r_{q}}{2} \cos \theta} \right)^{2}$$

where: E = phase e.m.f. of the synchronizing winding, volts;  $\omega_1 = 2\pi f_1 r_d$  and  $x_d$ ,  $r_q$  and  $x_q$  are the resulting parameters of the equivalent circuits of selsyn in the direct and quadrature axes. To improve the accuracy of the indicating selsyn, it is also useful to be guided by the following design rules: 1) Choose the value of the pole overlap coefficient Card 4/6

Peculiarities of the design and ... \$\frac{\\$5/196/62/000/009/015/018}{\\$E114/\\$E184}\$

from the equation  $\alpha mq = an$  integer, where m - number of phases. 2) Choose the number of slots in the rotor and stator of a cylindrical machine guided by the following expressions:

$$z_{R} \neq z_{s}; z_{R} \neq z_{s} \stackrel{\pm}{=} 2; z_{R} \neq 6s \stackrel{\pm}{=} 1; z_{R} \neq 6s \stackrel{\pm}{=} 2; z_{R} \neq 2z_{s};$$
 $z_{R} \neq 1/2 z_{s}; z_{R} \neq 2z_{s} \stackrel{\pm}{=} 2; z_{R} \neq 1/2 z_{s} \stackrel{\pm}{=} 1,$ 

where: g - any integer;  $z_S$  - number of stator slots;  $z_R$  - number of rotor slots.

5) Use two-layer winding with the pitch shortened by 1/5 of the pole pitch. In the cylindrical selsyn, make two-layer windings for the stator and the rotor by reducing the pitch of one winding by 1/5 and of the second by 1/7 of the pole pitch. To improve the accuracy of the transformer selsyns it is necessary:

1) to choose the angle of the inclination of stator slots from

the formulae 
$$\gamma_c = k \frac{2 \text{ TC}}{r_s + 1}$$
;  $\gamma_c = k \frac{2 \text{ TC}}{r_s}$ ;  $\gamma_c = k \frac{2 \text{ TC}}{r_s - 1}$ 

Card 5/6

Peculiarities of the design and ... S/196/62/000/009/015/018 E114/E184

where  $\gamma_c$  is the resultant angle of skewness of the slots in radians; k - any integer except zero: 2) in the choice of slots for the stator and the rotor, be guided by the same expressions as for the indicating selsyn: 3) use the cylindrical construction, etc.

[Abstractor's note: Complete translation.]

Card 6/6

SOFRONOV, Ye., inzh.

"Airplanes of the commercial aviation." Reviewed by E.Sofronov.

(MIRA 15:2)

(Airplanes)

33328

17.1151

\$/085/62/000/003/001/001 D045/D114

AUTHOR:

Sofronov, Ye., Engineer

TITLE

High-altitude aircraft equipment

PERIODICAL: Kryl'ya Rodiny, no. 3, 1962, 29-31

TEXT: Various types of high-altitude aircraft equipment are described. In conventional oxygen apparatus, either a constant or periodical oxygen flow enters the mask. Oxygen from a high-pressure cylinder pages through two reducing valves where the pressure is reduced to 10-4 and 2-1.5 atm respectively. The oxygen subsequently enters a non-hermetic mask via an oxygen flow indicator. The amount of oxygen entering the mask is automatically regulated according to height by a special aneroid box. main shortcoming of devices of this type is oxygen wastage during expiration. In oxygen apparatus with periodic flow, the oxygen enters the mask only on inspiration. During inspiration, a vacuum is created between the mask and the apparatus proper. As a result of pressure differences caused by the vacuum, an elastic diaphragm is deflected inwards, moves

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High-altitude aircraft equipment

a lever and opens the valve. Oxygen then begins to pass into the mask. During respiration, when the inspiratory valve in the oxygen mask is closed, the oxygen flow increases the pressure within the apparatus, and the diaphragm deflects to the reverse side. This deflection returns the lever to the initial position and the valve closes, thus interrupting the oxygen flow into the apparatus. Of Soviet brands of oxygen apparatus, the 1.0-18 (KP-18) and KN -28 (KP-28) non-portable and KN-19 (KP-19) and KN =21 (KP-21) portable devices are mentioned but not described. The KN-23 (KP-23) and KN = 27 M (KP-27M) parachute oxygen devices (fig.3) operate as follows: Oxygen is kept in a battery of containers linked in sequence and having a total volume of 0.85 1. The working pressure is 150 atm. An inflation valve (1) is fixed to one side of the battery, a manometer (2) and capillary tube (3) to the other. The battery is connected by the capillary tube to a stopping-and-starting device. These parachute oxygen devices are switched on automatically during ejection. High-altitude pressure suits are used in cases when the cabin becomes

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High-altitude aircraft equipment

S/085/62/000/003/001/001 D045/D114

depressurized at altitudes of more than 12-15 km. They are used in combination with an oxygen mask or hermetic headgear, the latter being used particularly in flights at altitudes of more than 15-17 km. The operational principle of the high-altitude equipment of an atmospheric hermetic cabin is as follows: Compressed hot air is fed to a reducing valve and then to the distributor of a heat regulator. Depending on the cabin temperature, the compressed air is directed along a cold or hot line, and then along a common tube into the cabin. In the heat exchanger of the cold line, the air is cooled by atmospheric air and can also be cooled below the temperature of the surrounding medium in a turborefrigerator. Cabin pressure is regulated automatically. system also includes a vacuum valve for equilibrating cabin pressure with the surrounding medium when the aircraft is in descent, a jettison valve for rapidly depressurizing the cabin, and an oxygen-breathing apparatus with a reserve oxygen supply in cylinders usually placed outside the cabin. High-altitude strato-suits are based on the same principles as a hermetic cabin. There are 7 figures.

Card 3/4 <

SOFRONOV, Ye., inzh.

Altitude equipment of airplanes. Kryl. rcd. 13 no.3:29-31 Mr
162.

(MIRA 18:5)

### "APPROVED FOR RELEASE: 08/25/2000 (

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L 10641-b3 ARG/ETR/ENG(s)-2/EPA(b)/EWT(d)/FCS(k)/ENT(1)/EWT(m)/
FBD, FEO/FCS/BIE/ES(t)-2 AFFTC/ASD/AFMDC/APGC/SSD Ps-4/Pw-4/Pd-4
TT/WW S/018/63/000/005/001/001

AUTHOR:

Labzenkov, V. and Sofronov, Ye.

TITLE:

Aerodynamics of antiaircraft rockets

FERIODICAL: Voyennyy vestnik. No. 5, 1963, 84 - 86

Modern rockets are either winged or ballistic. Antiaircraft rockets are winged. Their speed range is from 2500 - 7000 km/hr, with altitudes primarily from 10 - 30 km. During movement in an air medium, the rocket (missile) is subjected to aerodynamic forces caused by unequal distribution of pressure on the surface of the aircraft. The distribution of pressure, in turn, depends on the distribution of aircraft. The components of complete aerodynamic forces are drag and lift. Frictional forces act during the flow of air around the rocket. Moreover, in the great range of subsonic speeds the uninterrupted flow is replaced by the interruption of the stream and the formation of a vortex. The difference in pressure between the nose and tail portions of the rocket leads to a braking of the rocket. Lift is also caused by the pressure difference on the upper and lower surfaces. Lift is caused primarily by wings. Hence, this class of rocket is used at comparatively low altitudes. Ballistic rockets have no wings and are controlled by gas

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L 10641-63 Aerodynamics of ... s/018/63/000/005/001/001

vanes or special turning engines. Winged rockets are controlled by aerodynamic as well as gas dynamic vanes. The greater the speed, the more the role of air compression, expressed in machs, becomes the main role. The greater the ratio of the speed of current to that of sound, the greater the compressibility of gases. With mach less than 1 air compression is insignificant and resistance is small. With mach greater than 1, continuity of the flow's parameters is disrupted and there is great agitation, leading to the phenomenon of shock waves and pressure bounds. Continuity is disrupted as the gas parameters on one side of the shock wave differ sharply from those on the other side of its front. As a result of the braking of the air flow ahead of the rocket's nose, the temperature of the air and the rocket surface is raised. The optimum rocket shape for subsonic flight is drop-shaped. Cn supersonic rockets, the rocket nose and leading edge of the wings are sharp and the aerodynamic surfaces thin. The greater the rocket's speed, the longer its nose. The center is cylindrical. With an increase in the angle of the center part, drag increases. The tail part is either a cylinder or a truncated cone. There is no optimum aerodynamic form for all speeds. At subsonic speeds, the wing profile should have a blunt leading edge; with supersonic speeds, sharp. Depending on the locations of the support and control surfaces, the aerodynamic patterns of winged rockets may be: duck-shaped with air vanes ahead of the wings; normal, with air vanes behind the

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Aerodynamics of ...

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wings; with tail control, the air vanes coinciding with the supporting surfaces. In the duck-shaped rocket the lift force of the vanes and wings supplement each other and the support surfaces are less. Three figures.

card 3/3

GAMULIN, A., inzh.; SOFRONOV, Ye., inzh.

Instruments show the route (to be concluded). Kryl. rod.
15 no.1:24-25 Ja '64.

(MIRA 17:2)

GAMULIN, A., inzh.; SOFRONOV, Ye.

Instruments show the route (conclusion). Kryl. rod. 15 no.5:
20-21 My '64.

SOFRONOV, Ye. I.: Master Tech Sci (diss) -- "Theoretical and experimental investigation of the traverse of large hydraulic presses". Moscow, 1958, published by the TsENTI of Heavy Machinebuilding. 18 pp (Main Admin of Sci Res and Design Organizations of the Gosplan USSR, Central Sci Res Inst of Technology and Machinebuilding TsNIITMash), 150 copies (KL, No 6, 1959, 136)

#### CIA-RDP86-00513R001651920005-2 "APPROVED FOR RELEASE: 08/25/2000

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EWT(d)/EWP(k)/EWP(q)/EWT(m)/BDS

AFFTC/ASD

JD/HW

ACCESSION NR: AR3004201 S/0276/63/000/005/V005/V006

SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 5V24

TITLE:

AUTHOR: Sofronov, Ye. I.

Study of fatigue strength of component crossarm of a heavy press

CITED SOURCE: Tr. Vses. n.-i. proyektno-konstrukt. in-ta metallurg, mashinostr., sb. 3, 1961, 211-219

TOPIC TAGS: fatigue strength, crossarm component, heavy press, wire tensometer, loading, testing machine, GRM-2

TRANSLATION: The fatigue strength was investigated on the model of a component mobile crossarm of a heavy press. The thrust of GRM-2 pulsating machine was taken by a crossarm punchholder, and the load from press cylinders was modeled by a special hydraulic arrangement. The change in the state of stress of crossarm parts was parallelly determined by wire tensometers in the process of loading. The tensometer deformation graphical record during loading from zero to a maximum value consists of 2 sections. In the first section, at low loads deformations increase more slowly than at further increase of loading (the second section)

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ACCESSION NR: AR3004201

because of diminishing of clearances in the design. In the fatigue tests a preliminary loading is applied and the range of cycle loading changes occurs in the second section. Therefore the loading pattern must be carried out by taking into account stresses in dangerous places and not the force of the testing machine. The test was carried out at a maximum stress of the cycle amounting to 100, 140 and 175% of the given nominal force of the press, and at a frequency of 550 cycle/min. Investigation of the crossarm destroyed after 9.5 millions of cycles at a maximum cycle stress equal 164% of the nominal, disclosed that contact corrosion and edge effect caused the destruction. Conclusions were drawn from the investigations on the advantages of fatigue tests on complex composite constructions as compared with other methods for determining the most unsafe parts, particularly when the carrying capacity of constructions is determined by the corrosion-edge effect. Six figures. S. Topaler.

DATE ACQ: 21Jun63

SUB CODE: IE

ENCL: 00

Card 2/2

L 41293-65 EWT(m)/EWP(w)/EWP(v)/EWP(k) Pf-4 EM S/0276/64/000/008/V008/V008 ACCESSION NR: AR5005685 13 SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya. Svodnyy tom, Abs. 8V38 AUTHOR: Sofronov, Ye. I. TITLE: A study of the stressed state of beam walls CITED SOURCE: Tr. Vses. n.-i. i proyektno-konstrukt. in-ta metallurg. mashinostr. sb. 11, 1964, 99-156 TOPIC TAGS: hydraulic press, press design, stressed beam wall, stressed state calculation TRANSLATION: Composite structures consisting of a number of thick plates have found wide use in powerful presses. Cross bars and span beams in 30,000 and 75,000 metric ton presses consist of an assortment of short and tall plates classifiable as beam walls with side ratios of 2:4. The following conclusions were reached from approximate calculations and an analysis of the stressed state of beam walls: 1) Methods applicable to the theory of elasticity should be used to calculate beam walls stressed along a single edge or stressed by a concentrated force near the

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1	center c stressed can be c material	ross s along alcula . Str	ection; a two opposited appro- ress value fibers a	2) Beam wante edges oximately sees obtained understand	alls with his, except for from expression the lated by 40%	ions desc	ribing th	e resista xaggerat	ance of the		
	4 titles	; 13	Illustrat	ions.		L: 00					
	SUB CODE	: AS	, ME		ENC	L; OU					
	me.										

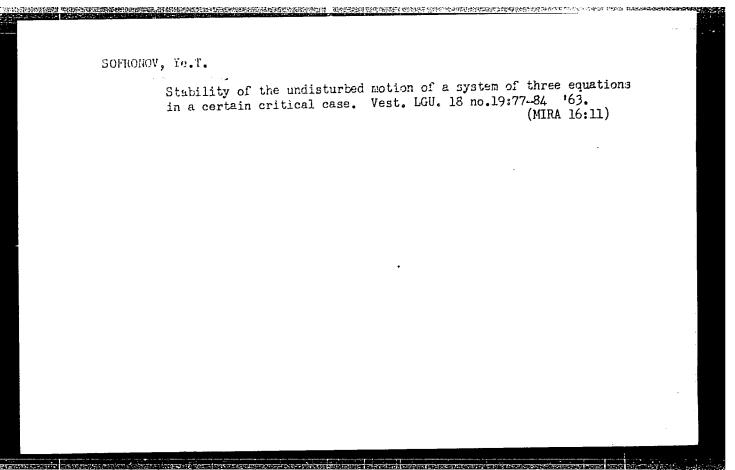
VOROVICH, I.I., doktor fiz.-matem. nauk, prof.; LYUBIMOV, V.Ya.; SAFRONOV, Yu.V., kand. fiz.-matem. nauk, dotsent; SOFRONOV, Ye.I., kand. tekhn. nauk; USTINOV, Yu.A., kand. fiz.-matem. nauk

Reliability of fitting rim bands on gear-wheel centers. Vest. mashinostr. 45 no.7:23-26 J1 '65. (MIRA 18:10)

POPKOV, Anatoliy Vasil'yevich; VERETE, A.G., inzh., retsenzent; RUKAVISHNIKOV, I.V., inzh., retsenzent; SOFRONOV, Ye.P., nauchn. red.; VASIL'YEVA, N.N., red.; NIKITINA, R.D., red.; ERASTOVA, N.V.; tekhn. red.;

THE TENNESS OF THE PROPERTY OF

[Fundamentals of hydrodynamics] Osnovy termodinamiki. Leningrad, "Sudostroenie," 1964. 181 p. (MIRA 17:3)



<u>L 54912-65 EWT(d) Pg-4 IJP(c)</u> ACCESSION NR: AR5015066	UR/0044/65/000/005/B047/B047
	517.917
SOURCE: Ref. zh. Matematika, Abs. 5B227	
AMBRIOD. Safnonov. Ya. T.	
TITLE: Sufficient conditions for stability	of the solution of a system of three
	第三十二章 1000 mm (1997年) 1997年 -
CITED SOURCE: Dokl. 3-y Sibirsk. konferen	tail po matem 1 meknam., 1904. 10mak,
mt_ie ::: +: 1963. 155=150	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
TOPIC TAGS: differential equation, stabil	
TRANSLATION: The system $\frac{dx}{dt} = g - \varphi_1(z),$	
[孝화] 이 아이지 아이는 그는 아이들이 되고 하는다. [17] 그렇게 하는 아이들이 나를 다 했다.	
$\frac{dy}{dt} = z - \varphi_0(x),$	
$\frac{dz}{dt} = -\varphi_{2}(z) - \varphi_{4}(z)$	a) - a(z, y) s
and sufficient conditions for s	tability in the large of the zero solution
of the system given.	네가 돌아온 이번째로 하면 보면도 된 것이 되면 된다. (1914년 12월 <mark>호텔</mark>

EWT(1) IJP(c) L 29122-65 s/0043/65/000/001/0145/0146 ACCESSION NR: AP5005784 AUTHOR: Sofronov, Ye. T. TITLE: Stability of unperfurbed motion in a critical case SOURCE: Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki i astronomii, no. 1, 1965, 145-146 TOPIC TAGS: differential equation, stability ABSTRACT: The author gives several theorems yielding sufficient conditions for stability of  $\frac{dx}{dt} = y, \ \frac{dy}{dt} = z + Y(x, y), \ \frac{dz}{dt} = Z(x, y, z),$ where Y and Z satisfy certain given conditions, based on the stability of (2)  $\frac{dx}{dt} = y, \ \frac{dy}{dt} = Y(x, y).$ He also gives theorems for instability of (3)Orig. art. has: 5 formulas: Card 1/2