

USSR/Human and Animal Physiology - Nervous System.

V-12

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4423

prevailed for several days after polarization.
When the current was boosted (up to 15 μ v) the dominant
state was transformed into a pessimal state which, in
turn, was accompanied by a reduction in the electroacti-
vity (up to 10 μ v) in C.

Card 3/3

PAVLYGINA, R.A.

Electrical activity of the cortex, thalamus, hypothalamus, and the reticular formation of the brain stem in rabbits following the combination of sound with rhythmic light. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 5:39-48 '60. (MIRA 13:10)

1. Iz Laboratorii obshchey fiziologii tsentral'noy nervnoy sistemy (zav. - V.S. Rusinov) instituta vysshey nervnoy deyatel'nosti.
(ELECTROPHYSIOLOGY) (CEREBRAL CORTEX) (CONDITIONED RESPONSE)
(LIGHT—PHYSIOLOGICAL EFFECT) (SOUND—PHYSIOLOGICAL EFFECT)

PAVINGINA, R.A.

Study of the excitation focus of the "single tetanic contraction"
type developed in the cerebral cortex. Trudy Inst.vys.nerv.deiat.
Ser.fiziol. 7:39-48 '62. (MIRA 16:2)
(CONDITIONED RESPONSE) (ELECTROENCEPHALOGRAPHY)

PAVLYGINA, R.A.; POZDNYAKOVA, R.A.

Creation of a dominance focus in the motor analyzer with a
pulsating constant current. Trudy Inst. vys. nerv. deiat.
Ser. fiziol. 5:49-57 '60. (MIRA 13:10)

1. Iz Laboratorii obshchey fiziologii (zav. - V.S. Rusinov)
instituta vysshey nervnoy deyatel'nosti.
(CEREBRAL CORTEX) (ELECTROPHYSIOLOGY)
(LIGHT—PHYSIOLOGICAL EFFECT) (SOUND—PHYSIOLOGICAL EFFECT)

PAVLYGINA, R.A.

Impairment and restoration of the higher nervous activity as related to the creation of a focus of excitation in the hypothalamic region of the rabbit brain. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 3:19-31 '59. (MIRA 12:3)

1. Iz laboratorii obshchey fiziologii nervnoy sistemy, zav. - V.S. Rusinov.

(HYPOTHALAMUS) (CONDITIONED RESPONSE)

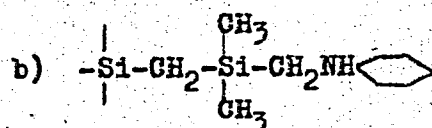
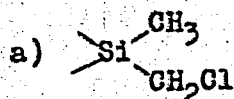
S/021/63/000/002/014/016
D405/D301

AUTHORS: Chuyko, A. A., Pavlyk, H. Ye. and Neymark, I. Ye.

TITLE: Synthesis and adsorptive properties of amino-organic silicas with Si-C bond

PERIODICAL: Akademiya nauk UkrRSR. Dopovidi. no. 2, 1963, 230-233

TEXT: The investigation had the purpose of obtaining amino-organic silicas with Si-C bond, and of studying their adsorptive and ion exchange properties. Modified silicas were obtained, having the following chemical compounds on their surface:



Card 1/3

Synthesis and adsorptive ...

S/021/63/000/002/014/016
D405/D301c) $-\text{Si}-\text{CH}_2-\text{NH}_2$.

On the original and modified silica specimens the sorption isotherms of vapors of methanol, benzene, heptane and dry gaseous hydrogen chloride were studied at 20°C in a vacuum adsorption device with quartz spring balances. It was found that substitution of part of the hydroxyl groups of the aerosol by organic radicals leads to a decrease in absorption of methanol and benzene, as well as of heptane. The obtained results are in agreement with the data available in the literature. The fact that methanol and benzene is much more adsorbed by aniline methyl aerosol than by chloromethyl aerosol can be explained by the possible formation of a hydrogen bond of these materials with the $>\text{NH}$ -group of aminosilicas. It was found that the modification of the aerosol of the chloromethyl group leads to a sharp decrease in its adsorption as compared to the original specimen. It is established that amino-organic silicas are selective adsorbents of acidic substances. It is noted that the

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Synthesis and adsorptive ...

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concentration of the amino-groups in the aminomethyl aerosol, obtained by ion exchange, is nearly equal to the amount of irreversibly chemisorbed hydrogen chloride; this is not the case with aniline methyl aerosol. There are 2 figures.

ASSOCIATION: Instytut fizychnoyi khimiyi AN URSR (Institute of Physical Chemistry of the AS UkrRSR)

PRESENTED: by Academician O. I. Brods'kyi of the AS UkrRSR

SUBMITTED: July 19, 1962

Card 3/3

L 23242-66 EWT(1)

ACCESSION NR: AP6009067

SOURCE CODE: UR/0185/66/011/003/0271/0279

AUTHORS: Pavlyk, B. M. (Paylik, B. M.)

ORG: Chernovtsy State University (Chernivets'kyi derzhuniversytet)

TITLE: Scattering of light by impurity centers in a solid with account of the deviations from the Franck-Condon principle

SOURCE: Ukrayins'kyi fizychnyy zhurnal, v. 11, no. 3, 1966, 271-279

TOPIC TAGS: light scattering, Raman scattering impurity scattering, impurity center, spectral distribution, spectral line, line width, absorption band, distribution function

ABSTRACT: A general expression is obtained for the probability of ^{21.44.55}Rayleigh and Raman scattering of light with account of deviations from the Franck-Condon principle in the harmonic approximation in the oscillations of the nuclei of a solid solution. The correction to the spectral distribution of the scattered light, due to deviations from the Franck-Condon principle, is calculated. The resultant expression is considered in the special case when the spectral intensity distribution of the incident light is Lorentzian and consists of a narrow spectral line, and under

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ACCESSION NR: AP6009067

the assumption that the maximum of the Lorentz curve is far from the absorption band of the impurity molecule. It is concluded that in general in regions far from the impurity absorption band the indicated deviations from the Franck-Condon principle do not contribute to the spectral distribution function of the scattered light and the spectral distribution function is given by the term which does not include the effects due to the deviations. The form of the scattering spectrum as a function of the light frequency is obtained in the region of absorption by the impurity centers. A general correction to the integral scattering intensity due to inclusion of the deviations from the Franck-Condon principle is obtained. Author thanks A. F. Lubchenko for valuable advice and a discussion of the results. Orig. art. has: 19 formulas.

SUB CODE: 20/ SUBM DATE: 16Apr65/ ORIG REF: 009/ OTH REF: 003/

Card 2/2 *mjs*

LUBCHENKO, A.F.; PAVLIK, B.M. [Pavlyk, B.M.]

Law of mirror symmetry in spectra of light absorption and
emission by impurity centers in solids. Ukr. fiz. zhur. 9
no.11:1221-1232 N '64 (MIRA 18:1)

1. Institut fiziki AN UkrSSR, Kiev.

S/169/62/000/001/008/083
D228/D302

AUTHORS: Bykhovskiy, V. A., Korchinskiy, I. L. and Pavlyk, V. S.

TITLE: The earthquake of May 4, 1959, at the town of Petro-pavlovks-na-Kamchatke

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 1, 1962, 15-16, abstract 1A158 (Tr. Tsent. n.-i. in-ta stroit. konstruksiy, Akad. str-va i arkhitekt. SSSR, no. 6, 1961, 5-38)

TEXT: The earthquake's epicenter was situated in the ocean at a distance of 170 km from the coast. The coordinates of the epicenter were 53°45'N and 161°E, the focal depth being 30 km. The (SBM) seismometer showed a deflection of 4.8 mm. More than 100 shocks with a force of 2 - 4 points were noted in the period from May 1 to July 1. The areas of strong damage are located in lowlying localities with a datum of from +10 to +20 m. The groundwaters stand relatively high in these districts. Considerable nature was noted, too, on dredged water-saturated ground. Buildings located

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The earthquake of May 4 ...

S/169/62/000/001/008, 0-3
D228/D302

on rocky and semirocky ground were hardly damaged. The damage to small-block buildings was expressed by oblique cracks in the walls, partitions, and bulkheads. Assembled ceilings had small cracks in the joints between the floorings. In large-block buildings the damage was expressed by horizontal cracks in the joints between the partition blocks and by vertical cracks along the facets of window openings. Framework buildings endured the earthquake better. / Abstractor's note: Complete translation. /

Card 2/2

PAVLYK, V.S.

Actual measurements of the vibrations of a large-panel apartment
house. Trudy TSNIISK no.18:124-143 '62. (MIRA 16:2)
(Apartment houses--Vibration)
(Earthquakes and building)

PAVLYK, V.S., inzh.

Calculating the seismic effect on single-story framed buildings
with rigid end walls. Prom. stroi. 41 no.6:38-40 Je '64.
(MJRA 17:9)

BYKHOVSKIY, V.A.; KORCHINSKIY, I.L.; PAVLYK, V.S.

Earthquake in Petropavlovsk-Kamchatskiy on May 4, 1959.
Trudy TSNIIISK no.6:5-38 '61. (MIRA 15:1)
(Petropavlovsk-Kamchatskiy--Earthquakes, 1959)

KORCHINSKIY, I.L., prof., doktor tekhn. nauk; BYKHOVSKIY, V.A.,
kand. tekhn. nauk; FAVLYK, V.S., inzh.; SOLOVEY, I.N.;
SUMINOV, N.A.; KOTOVA, L.S., inzh.; SHITOVA, L., red.
izd-va; KUDAKOVA, N.I., tekhn. red.

[Instructions for determining the seismic load for vertical
equipment and examples of calculation] Ukazaniia po oprede-
leniiu seismicheskoi nagruzki dlia vertikal'nykh apparatov i
primery rascheta. Moskva, Gosstroizdat, 1961. 30 p.

(MLA 15:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut
stroitel'nykh konstruksiy. 2. Tsentral'nyy nauchno-issledo-
vatel'skiy institut stroitel'nykh konstruksiy Akademii stroi-
tel'stva i arkhitektury SSSR (for Korchinskiy, Bykhovskiy,
Favlyk). 3. Gosudarstvennyy institut po proyektirovaniyu nef-
tyanykh zavedov pri Gosudarstvennom planovom komitete Soveta
Ministrov SSSR (for Solovey, Suminov, Kotova).

(Earthquakes and building)

KORCHINSKIY, I.L., prof.; POLYAKOV, S.V.; BYKHOVSKIY, V.A.; DUZINKEVICH, S.Yu.; PAVLYK, V.S.; BEGAK, B.A., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Principles of designing buildings in earthquake districts] Osnovy proektirovaniia zdaniy v seismicheskikh raionakh; posobie dlia proektirovshchikov. Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1961. 487 p. (MIRA 14:12)
(Earthquakes and building)

KORCHINSKIY, I.L., prof., doktor tekhn. nauk; POLYAKOV, S.V., doktor tekhn. nauk; BYKHOVSKIY, V.A., kand. tekhn. nauk; PAVLYK, V.S., inzh.; YUSFIN, I.M., inzh.; AVEDIKOVA, S.A., inzh.; IFTINKA, G.A., red. izd-va; GOL'EERG, T.M., tekhn. red.

[An example of earthquake design of a multi-story frame building with and without enclosure walls with attached instructions] Primer rascheta mnogoetazhnogo karkasnogo zdaniia so stenovym zapolneniem i bez nego na seismicheskie vozddeistviia i ukazaniia k primeru rascheta. Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1961. 66 p. (MIRA 14:11)

1. Tsentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktov Akademii stroitel'stva i arkhitektury SSSR (for Korchinskiy, Polyakov, Bykhovskiy, Pavlyk). 2. Proyektnyy institut No.5 Ministerstva stroitel'stva RSFSR (for Yusfin, Avedikova). (Earthquakes and building)

38846

S/185/62/007/006/009/014
D407/D301

18 8100
AUTHORS: Pidstryhach, Ya. S. and Pavlyna, V. S.

TITLE: Diffusion in a non-uniformly heated strained layer
in the presence of mass-exchange with the ambient
medium

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 6, 1962,
652-659

TEXT: The relation between the processes of diffusion, heat con-
duction and deformation in a binary isotropic solid solution is
considered for the case of an infinite layer of thickness $2l$. The
differential equations and the boundary conditions for these pro-
cesses are set up; thereby certain simplifying assumptions are
made. The infinite layer is subjected to stretching and bending;
it is heated by convection with the ambient medium; an exchange of
atoms may take place between layer and medium. The system of equa-
tions reduces to two:

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Diffusion in a ...

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$$D_c^* \frac{\partial^2 c}{\partial x^2} + D_t^* \frac{\partial^2 t}{\partial x^2} = \frac{\partial c}{\partial \tau}$$

$$K \frac{\partial^2 t}{\partial x^2} = \frac{\partial t}{\partial \tau} \quad (5)$$

where $K = \lambda/c$ is the coefficient of heat conductivity and D_c^* and D_t^* are the reduced diffusion coefficients. The stress-strain relations are set up. In order to determine the stressed-strained state of the layer, it is necessary to find the distribution $c(x, \tau)$ of the solute and the temperature distribution $t(x, \tau)$. These are obtained by solving system (5) and the corresponding boundary conditions. The formula for $c(x, \tau)$, thereby obtained, is considerably simplified by assuming that the settling time of the thermal regime is considerably smaller than that of the diffusion process.

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Diffusion in a ...

The simplified formula shows that the change in the concentration of the solute is a result of 3 different diffusion processes: The first process is due to the difference in chemical potentials, the second to the strain gradient (due to the force P and moment M) and to the strain due to the temperature variation, the third is thermodiffusion. In the case of vacuum evaporation of the solute the obtained formulas are modified (by setting the chemical potentials equal to zero). In a stationary process, the stresses in the layer arise as a result of the external forces only. The strain components consist of three terms; the first is related to the force P and the moment M, and the other two to the diffusion processes and the non-uniform heating. From the strain tensor, corresponding to the state following the removal of the applied load, it is possible to calculate the radius of curvature of the middle surface of the layer; two formulas are obtained for the radius of curvature, corresponding to the residual strain. These formulas can be used in the experimental determination of the physico-mechanical constants of materials.

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S/185/61/006/005/008/019
D274/D303

AUTHORS: Pidstryhach, Ya.S., and Pavlyna, V.S.

TITLE: General thermodynamical relationships for solid solutions

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 6, 1961, 655 - 662

TEXT: A thermodynamic system, represented by a single-phase n-component solid solution, is considered. The principal thermodynamic equation for this system is

$$dU = TdS + \sum_{i=1}^6 \sigma_i de_i + \sum_{k=1}^n \mu_k dc_k. \quad (1) \quad \checkmark$$

The system is characterized by five groups of thermodynamic constants, namely those relating to elasticity moduli, linear expansion, stress, diffusion and heat capacity. These constants constitute a complete system of physico-mechanical characteristics. By means of these characteristics and equations of type (1), it is possible
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General thermodynamical ...

to set up tables of all possible first derivatives of the parameters of the thermodynamic system, as well as tables of the characteristic functions with respect to the independent variables. This is done by the Jacobians method (Ref. 6: F.A. Crawford, Am. J. Phys., 17, 1, 1949). Thus, the derivative $(\partial c_l / \partial T)_{e, \mu}$ can be written as follows:

$$\begin{aligned} \frac{\partial(c_l, \mu, e, c')}{\partial(T, \mu, e, c')} &= \sum_k \frac{\partial(c_l, \mu_k, \mu', e, c')}{\partial(c_l, T, \mu', e, c')} \cdot \frac{\partial(T, \mu_k, \mu', e, c')}{\partial(c_l, T, \mu', e, c')} = \\ &= - \sum_k \left(\frac{\partial \mu_k}{\partial T} \right)_{e, c'} : \left(\frac{\partial \mu_k}{\partial c_l} \right)_{T, e, c'} \end{aligned}$$

Hence, by using a formula involving the constants of the fourth group, one obtains

$$\left(\frac{\partial c_s}{\partial T} \right)_{e, \mu} = - \sum_k \frac{d_{k, s}^{\mu, e}}{d_{k, l}^{\mu, e}}.$$

Analogously, other derivatives of characteristic functions and s.

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General thermodynamical ...

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tem parameters can be obtained. All these derivatives are listed in 8 tables. As an example, illustrating the use of the tables, the relation between the adiabatic- and isothermic moduli is derived. Other typical relationships between the above constants can be readily determined as well. Some of these relationships are listed in another table. It is noted that some of the constants are independent and that the other constants can be expressed in terms of the former. The system under consideration has 6 degrees of freedom. The number of independent constants decreases considerably if the system is an isotropic two-component solid solution under hydrostatic pressure. Such a system has 3 degrees of freedom and only 6 independent constants. There are 9 tables and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: Tsham Wu Ting, James C.M. Li, Phys. Ref., 106, 6, 1957; James C.M. Li, J. Chem. Phys., 26, 4, 1957; F.A. Crawford, Am. J. Phys., 17, 1, 1949. ✓

ASSOCIATION: Instytut mashynoznavstva ta avtomatyky AN URSR m. L'viv
(Institute for the Science of Machines and Automation
AS UkrSSR, L'viv)

SUBMITTED: January 2, 1961
Card 3/3

L 32095-65 FSF(h)/EWT(1)/FS(v)-3/EEC(k)-2/EWA(d) Pac-2 GW

ACCESSION NR: AR5005696

S/0313/64/000/009/0008/0008

SOURCE: Ref. zh. Issledovaniye kosmicheskogo prostranstva. Otd. 27
vyp., Abs. 9.62.54 B

AUTHORS: Kondratenko, V. M.; Pavlyniv, Ye. A.

TITLE: Procedure for visual observations of artificial satellites
at the satellite observation station of the Chernovtsy University

CITED SOURCE: Byul. st. optich. nablyudeniya iskusstv. sputnikov
Zemli, no. 35, 1962(1963), 6-8

TOPIC TAGS: artificial satellite motion, satellite observation

TRANSLATION: The authors describe in detail the organization of
visual observation of artificial satellites at the Chernovtsy
University. Working in each station are seven groups of observers,
with six observers in each group. The group, headed by an instruc-

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L 32095-55

ACCESSION NR: AR5005696

tor, carries out the observations during one night each week. The observations are carried out with the aid of TZK telescopes. The observers determine the instant of passage of the satellite through the hairline of a grid aligned with two selected stars identified by the observers by using the atlas of A. A. Mikhaylovskiy. The time of observation is fixed with the aid of chronographs, using the readings of stop-watches and a marine chronometer. A graphic method is described for estimating the quality of the satellite observations made by each observer. A. Kuznetsov.

SUB CODE: SV

ENCL: 00

Card 2/2

L 36288-66 EWT(1)/EEC(k)-2/FSS-2 TT/OW

ACC NR: AR6004323

SOURCE CODE: UR/0274/65/000/009/A021/A021

AUTHORS: Pavlyniv, Ye. A.; Safronov, Yu. I.; Melenovskiy-Grishchenko, V. A.

TITLE: Operator's panel in a station for visual observations of an artificial earth satellite

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 9A161

REF SOURCE: Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli, no. 40, 1964, 18-19

TOPIC TAGS: artificial earth satellite, artificial satellite observation, satellite tracking, *SPACECRAFT OBSERVATION STATION*

ABSTRACT: Construction and work plan for separate blocks of an operator's panel in conducting visual observation of an artificial earth satellite (AES) are described. The panel was prepared at the AES observation station No. 1062 at the Chernovtsy State Institute, and it has worked for a year without failure. 4 illustrations. A. K. [Translation of abstract]

SUB CODE: 22

Card 1/1

UDC: 621.396.946:629.198.5

ANDREYEV, A.B.; ANTONOV, A.I.; ARAPOV, P.P.; BARMASH, A.I.; BEDNYAKOVA,
A.B.; BENIN, G.S.; BERESNEVICH, V.V.; BERNSTEIN, S.A.; BITUTSKOV,
V.I.; BLYUMENBERG, V.V.; BOMCH-BRUYEVICH, M.D.; BORMOTOV, A.D.;
BULGAKOV, N.I.; VEKSLER, B.A.; GAVRILENKO, I.V.; GERDLER, Ye.S.,
[deceased]; GERLIVANOV, N.A., [deceased]; GIBSHMAN, Ye.Ye.;
GOLDOVSKIY, Ye.M.; GORBUNOV, P.P.; GORYALOV, P.A.; GRINBERG, B.G.;
GRYUNER, V.S.; DANOVSKIY, N.F.; DZEVUL'SKIY, V.M., [deceased];
DREMAILO, P.G.; DYBETS, S.G.; D'YACHENKO, P.F.; DYURBAUM, N.S.,
[deceased]; YEDORCHENKO, B.F. [deceased]; YEL'YASHKEVICH, S.A.;
ZHAKHAROV, L.P.; ZAVEL'SKIY, A.S.; ZAVEL'SKIY, P.S.; IVANOVSKIY,
S.R.; ITKIN, I.M.; KAZHDAN, A.Ya.; KAZHINSKIY, B.B.; KAPLINSKIY, S.V.;
KASATKIN, F.S.; KATSAUROV, I.N.; KITATGORODSKIY, I.I.; KOLESHNIKOV,
I.F.; KOLOSOV, V.A.; KOMAROV, N.S.; KOTOV, B.I.; LINDE, V.V.;
LEBEDEV, H.V.; LEVITSKIY, N.I.; LOKSHIN, Ya.Yu.; LUTTSAU, V.K.;
MANNERBERGER, A.A.; MIKHAYLOV, V.A.; MIKHAYLOV, N.M.; MURAV'YEV, I.M.;
NYDEL'MAN, G.E.; PAVLYSHKOV, L.S.; POLUYANOV, V.A.; POLYAKOV, Ye.S.;
POPOV, V.V.; POPOV, N.I.; RAKHLIN, I.Ye.; RZHEVSKIY, V.V.; ROZENBERG,
G.V.; ROZENTRETER, B.A.; ROKOTYAN, Ye.S.; RUKAVISHNIKOV, V.I.;
RUTOVSKIY, B.N. [deceased]; RYVKIN, P.M.; SMIRNOV, A.P.; STEPANOV, G.Yu.,
STEPANOV, Yu.A.; TARASOV, L.Ya.; TOKAREV, L.I.; USPASSKIY, P.P.;
FEDOROV, A.V.; PERE, N.E.; FRENKEL', N.Z.; KHEYFETS, S.Ya.; KHLOPIN,
M.I.; KHODOT, V.V.; SHAMSHUR, V.I.; SHAPIRO, A.Ye.; SHATSOV, N.I.;
SHISHKINA, N.N.; SHOR, E.R.; SHPICHENNETSKIY, Ye.S.; SHPRINK, B.E.;
SHTERLING, S.Z.; SHUTYY, L.R.; SHUKHGAL'TER, L. Ya.; ERVAYS, A.V.;
(Continued on next card)

ANDREYEV, A.B. (continued) Card 2.

YAKOVLEV, A.V.; ANDREYEV, Ye.S., retsenzent, redaktor; BERKEM-
 GEYM, B.M., retsenzent, redaktor; BERMAN, L.D., retsenzent, redaktor;
 BOLTINSKIY, V.N., retsenzent, redaktor; BONCH-BRUYEVICH, V.L.,
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 A.V., retsenzent, redaktor; GUDTSOV, N.T., retsenzent, redaktor;
 DEGTYAREV, I.L., retsenzent, redaktor; DEM'YANYUK, F.S., retsenzent;
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 SHURAVCHENKO, A.N., retsenzent, redaktor; ZLODEYEV, G.A., retsenzent,
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 MALOV, N.N., retsenzent, redaktor; MARKUS, V.A. retsenzent, redaktor;
 METELITSYN, I.I., retsenzent, redaktor; MIKHAYLOV, S.M., retsenzent;
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 retsenzent, redaktor; STRELITSKIY, N.S., retsenzent, redaktor;
 (Continued on next card)

ANDREYEV, A.V., (continued) Card 3.

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