L 11292-67   EWT(d)/EWT(m)/EWP(k)/EWP(h)/EWP(l)/EWP(v)   IJP(c)

ACC NR: AP6030247   SOURCE CODE: UR/0147/66/000/003/0011/0022

AUTHOR: Kochevnikov, Yu. V.

ORG: none

TITLE: Averaging the controls of discontinuous stochastic systems with a Poisson flux of discontinuities

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 3, 1966, 11-22

TOPIC TAGS: aircraft control equipment, stochastic process, poisson equation

ABSTRACT: The author discussed, in a previous work the optimal averaging of the controls of dynamic systems, and gave an approximate solution of the problem. In the more recent papers, a rigorous approach was suggested. The author gives solutions of problems such as the choice of programming of the motion of an aircraft for a most probable delivery of a payload to a given destination. In the present paper, the method is extended to systems with discontinuous characteristics, in particular, for a nonstationary Poisson flux of discontinuities. Orig. art. has: 56 equations.

SUB CODE: 12// SUBM DATE: 24Apr65/ ORIG REF: 005

UDC: 519.217.31

Card 1/1 jb

ACC NR: AP6034044   SOURCE CODE: UR/0103/66/000/010/0062/0070

AUTHOR: Kozhevnikov, Yu. V. (Kazan')

ORG: none

TITLE: Optimality principle on the average for discontinuous stochastic systems

SOURCE: Avtomatika i telemekhanika, no. 10, 1966, 62-70

TOPIC TAGS: stochastic control system , discontinuous stochastic system , optimality
principle, optimal control system, stochastic process, vector function, random process

ABSTRACT: An analysis is made of the control system described by the stochastic
equation

$$X_i = \varphi_i{}^j(t, X, u, a, B^j), t_{j-1} \leqslant t \leqslant t_j \quad (i = 1, \ldots, n; \quad j = 1, \ldots, k), \quad (1)$$
$$X_i(t_0) = E_i{}^0,$$

where $X = (X_1, \ldots, X_n)$ is a random vector function continuous on the every partial
interval $[t_{j-1}, t_j]$ except for the end points, $u = (u_1, \ldots u_r)$ is a piece-wise con-
tinuous nonrandom control vector-function, $a = (a_1, \ldots, a_m)$ is a nonrandom control
vector which does not depend on time but determines the nominal structural param-
eters of the control system, and B_j is a random variable. It is assumed that con-

Card_1/3   UDC: 62-505.7

ACC NR: AP6034044

trol parameters and phase coordinates are constrained by equations

$$M[f_s(a, T, P, X_1, \ldots, X_h)] = 0 \quad (s = 1, \ldots, q), \tag{2}$$

and the performance of the system is evaluated by the functional

$$J = M[f_0(a, T, P, X_1, \ldots, X_h)], \tag{3}$$

where the symbol M stands for the mathematical expectation, P is a random vector with a given distribution density and $T = (t_0, \ldots t_k)$. These control parameters u, a, T are sought which optimize the performance functional (3). Such a control is called the optimal control on the average and the above formulated problem - the problem concerning the optimal averaging of the control. Two theorems establishing the sufficient conditions for the existence of the family of permissible controls (the first theorem), and the necessary conditions for one of these controls to be optimal (the second theorem - the optimality principle on the average) are formulated and proved. The formulated optimality principle on the average is generalized to

Card 2/3

ACC NR: AP6034044

discontinuous systems. An example illustrates the theory. Orig. art. has: 36 for-
mulas.

SUB CODE:/3,/2/ SUBM DATE: 03Mar66/   ORIG REF: 007

Card   3/3

KOZHEVNIKOV, Yu.V.

Investigating the solutions of variational problems in aeronautics.
Izv. vys. ucheb. zav.; av. tekh. no.2:3-8 '58.   (MIRA 11:6)

1. Kazanskiy aviatsionnyy institut, Kafedra aerodinamiki.
              (Aeronautics)   (Calculus of variations)

KOZHEVNIKOV, Yu.V. (Kazan')

Existence of the solution of a variational problem. Trudy KAI 45:
3-11 '59.   (MIRA 14:1)
                    (Calculus of variations)

ACCESSION NR: AP4009639   S/0147/63/000/004/0015/0024

AUTHOR: Kozhevnikov, Yu. V.

TITLE: Selection of the optimal control of aircraft

SOURCE: IVUZ.   Aviatsionnaya tekhnika, no. 4, 1963, 15-24

TOPIC TAGS: aircraft optimal control, Pontryagin maximum principle, optimality conditions, singular control, step type control, time optimal control, optimal control

ABSTRACT: The motion of an aircraft in a vertical plane and in a homogeneous gravitational field is studied under the assumptions that the resistance of the aircraft and the performance of the motor are given functions of time. The equations of motion and the kinematic relations are written in terms of δ, u, ω, x, y, ψ, k_1, k_2, and τ; where δ is the rudder deflection; u, ω the horizontal and vertical components of the velocity; x, y the coordinates of the center of mass; ψ the angle of thrust with the horizon; k_1, k_2 are known functions of time; and τ is a function for which $\dot{\tau} = 1$. The problem of selecting that control function $\delta(t)$ insuring the optimal value of

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ACCESSION NR: AP4009639

one of the motion characteristics, with certain definite constraints imposed upon the other characteristics, is defined. The optimality conditions are determined through applying Pontryagin's maximum principle. In order to formulate these optimality conditions, an auxiliary function H is constructed in terms of the motion parameters and auxiliary functions $\lambda_i(t)$ ($i = 1, \ldots 7$), which are determined from a given set of equations. Optimality conditons for the control function $\delta(t)$ are derived for the general case and the so-called singular case. As a concrete example of the control, the motion of an aircraft from one point in a vertical plane to another point in the shortest time is investigated under the assumption that the initial values and final values of the motion parameters are known, and the problem of optimization is reduced to minimization of a certain performance functional. Optimality conditions for the control function $\delta(t)$ are written in terms of λ_i functions. It is shown that, depending on initial conditions, the optimal control can be realized: a) in the form of a step-type control if $\delta_{max}, \delta_{min}$ alternate during the entire controlled flight of the aircraft, or b) in the form of a singular control, when $\psi = const.$, and $\delta = 0$. The necessary and sufficient conditions for

Card 2/3

ACCESSION NR: AP4009639

the realization of these controls are presented in a table. Orig.
art. has: 60 formulas, 1 figure, and 1 table.

ASSOCIATION: none

SUBMITTED: 25Oct62   DATE ACQ: 12Feb64   ENCL: 00

SUB CODE: AI, AC, AE   NO REF SOV: 004   OTHER: 002

Card 3/3

KOZHEVNIKOV, Yu.V.

Optimization of flight conditions and the parameters of stage rockets. Izv.vys.ucheb.zav.; av.tekh. 6 no.3:11-20 '63.

(MIRA 16:10)

ACCESSION NR: AP4040580   S/0040/64/028/003/0537/0541

AUTHOR: Kozhevnikov, Yu. V. (Kazan)

TITLE: Optimization of controllable systems with random paramters

SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 3, 1964, 537-541

TOPIC TAGS: optimal control, random parameter, dynamic system, control function, mathematical expectation, random variable

ABSTRACT: The author considers the problem of optimal control in the case in which the system is dependent on certain random variables. Optimal control is then defined in the usual statistical sense. The author transforms the problem to one in classical variational calculus, which he solves in the classical way, and also gives an example. Orig. art. has: 22 formulas.

ASSOCIATION: none

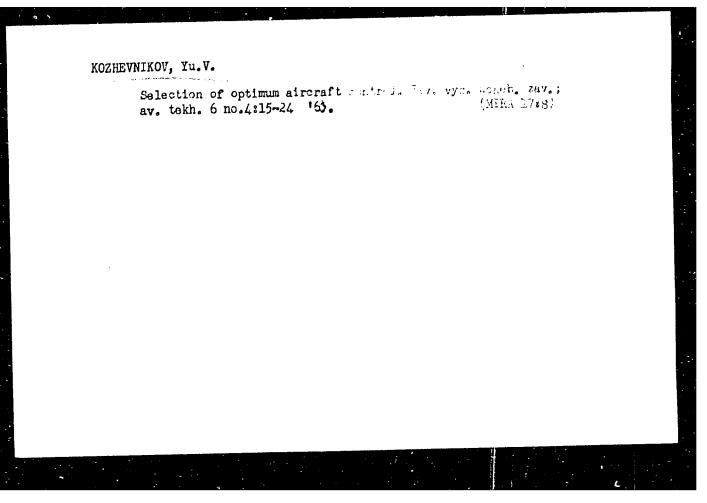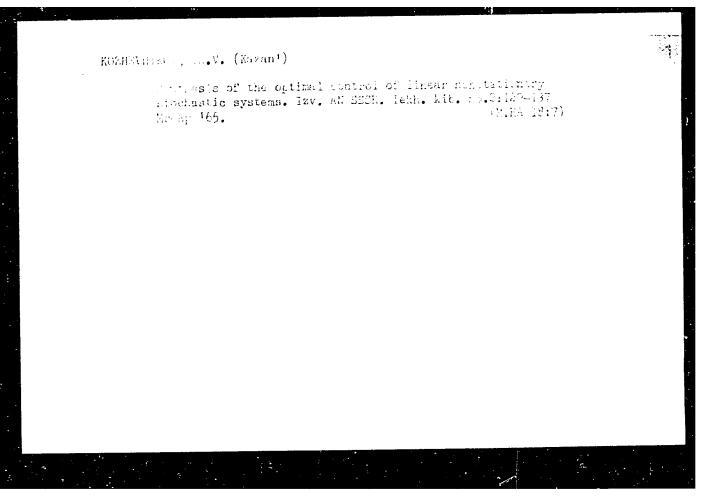SUBMITTED: 28Oct63   DATE ACQ: 19Jun64   ENCL: 00

SUB CODE: MA   NO REF SOV: 011   OTHER: 002

Card 1/1

KOZHEVNIKOV, Yu.V.

Selection of optimum aircraft . . . . vyc. ...... zav.;
av. tekh. 6 no.4:15-24 '63.
(MIRA 17:8)

KOZHEVNIKOV, ...V. (Kazan')

  ...sis of the optimal control of linear nonstationary
stochastic systems. Izv. AN SSSR. Tekh. kit. no.3:129-137
Mr-Ap '65.   (MIRA 18:7)

L 25451-66   EWT(d)   IJP(c)

ACC NR: AT6007333   SOURCE CODE: UR/2529/63/000/080/0042/0050

AUTHOR: Kozhevnikov, Yu. V. (Docent)

ORG: Kazan Aviation Institute (Kazanskiy aviatsionnyy institut)

TITLE: Solution of discontinuity optimal problems with parameters

SOURCE: Kazan. Aviatsionnyy institut. Trudy, no. 80, 1963. Matematika i mekhanika
(Mathematics and mechanics), 42-50

TOPIC TAGS: function, parameter, optimal control, successive approximation,
functional operator, boundary value problem, differential equation, integral equation

ABSTRACT: The problem of selecting control functions and parameters that are in
general bounded for certain discontinuous systems which supply a maximum value of
one of their characteristics is examined. Necessary conditions for the maximum
are obtained, and a method of successive approximations is presented. The work is
based on earlier work by L. S. Pontryagin et al. (Matematicheskaya teoriya
optimal'nykh protsessov, Fizmatgiz, 1961). The problem of determining the maximum
of a functional of the form

$$I = \Phi(l_j, \; x^j_{l_1}, \; x^j_{l_0}, \; x^{k+1}_{\infty}, \; a_q)$$
$$(i = 0, \; \ldots n; \; j = 1, 2, \ldots k; \; q = 1, 2, \ldots p)$$

Card 1/2

L 25451-66

ACC NR: AT6007333 O

is considered. The necessary conditions of the maximum for the case of k = 2 are
found in the form of inequalities:

$$b_{io}^2 \eta_{io}^2 > 0 \quad (l = 0\ 1,\ldots n - m_1),$$

$$b_{io}^1 \eta_{io}^1 > 0 \quad (l = 0\ 1,\ldots n - m_0),$$

$$A_q \alpha_q \leqslant 0 \quad (q = 1,\ 2,\ldots p),$$

$$b \eta_{so}^+ \leqslant 0,$$

$$\omega_j \xi > 0.$$

Orig. art. has: 20 formulas.

SUB CODE: 12/   SUBM DATE: 23Feb63/   ORIG REF: 002

Card 2/2 $\ell\ell$

L 10089-67   EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1)
ACC NR: AP6003178   SOURCE CODE: UR/0147/65/000/004/0007/0017

                                                                    34

AUTHOR: Kozhevnikov, Yu. V.

ORG: none

TITLE: The theory of controlled stochastic systems that are optimal in the mean

SOURCE: IVUZ. Avtatsionnaya tekhnika, no. 4, 1965, 7-17

TOPIC TAGS: stochastic process, automatic control theory, optimal automatic control

ABSTRACT: The control of a system in which the initial and final control times are random is discussed. The motion of the system is described by the equations

$$\dot{X} = \varphi(t, X, X_0, B, T_0, x_0, t_0, u_0, u, a), \quad T_0 \leqslant t \leqslant T_1, \quad X(T_0) = X_0, \qquad (1.1)$$
$$\dot{u} = f(t, u, x, x_0, t_0, u_0, a, \omega), \quad T_0 \leqslant t \leqslant T_1, \quad u(t_0) = u_0.$$

where φ and f are n- and m-dimensional, continuous, sufficiently differentiable vector functions; X and u are n- and m-dimensional continuous vector functions; ω is an r-dimensional controlling vector function of a class of piecewise continuous, piecewise smooth bounded functions; T_0 are random vectors with mathematical expectations,

$$x_0 = (x_{10}, \ldots, x_{n0}), \quad b = (b_1, \ldots, b_k),$$

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L 10039-67

ACC NR: AP6003178

O

t_0 (where the b_i are unknown) and with given centralized random values

$$X_0^0 = (X_{i0}^0 = X_{i0} - x_{i0}), \quad B^0 = (B_i^0 = B_i - b_i); \quad T_n^0 = T_0 - t_0; \quad u_0 = (u_{i0}), \quad a = (a_i)$$

are determined vectors; and $x = (x_1, \ldots, x_n)$ is a continuous vector function defined by equations

$$X = x + \Delta X, \quad \Delta X = AC^0, \quad T_0 < t < T_1,$$

Equations (1.1) are solved by linearizing the right hand sides and the expressions for the initial and final states of the system. The solution of the following particular case is considered

$$\dot{X} = \varphi(t, X, u, a, B), \quad T_0 < t < T_1, \quad X(t_0) = X_0, \quad X(T_1) = X_1,$$
$$T_0 < t < T_1.$$

Orig. art. has: 30 formulas.

SUB CODE: 13,12/   SUBM DATE: 31Aug64/   ORIG REF: 005

ACC NR: AP6036848   SOURCE CODE: UR/0147/66/000/004/0003/0011

AUTHOR: Kozhevnikov, Yu. V.

ORG: none

TITLE: Selection of motion program and parameters of compound aircraft for the most probable delivery of payload to a particular zone

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 4, 1966, 3-11

TOPIC TAGS: cybernetics, aircraft autopilot, aircraft guidance, automatic control, rocket aircraft, rocket guidance

ABSTRACT: The paper deals with the motion of a compound aircraft such as a multistage rocket. It is assumed that the separation of a stage occurs at the moment when the engine is turned off, so that the motion of the rest of the rocket, together with the payload, starts without propulsion. Thus the trajectory of the rocket consists of a number of sections, some of which may take place with or without propulsion, with or without regulation. The time is counted separately for each section. The motion of each consecutive part of the rocket is described by six vector equations, each dealing with different aspects of the motion: kinematic, gravitational, geometric, thermodynamic (engines), and boundary conditions. Some of the equations contain the controlling functions and the random variables with their mathematical expectations.

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ACC NR: AP6036848

The final state I_0 of the payload can be estimated through the probabilities of its arrival at the end of each section of the trajectory. By extremizing the functional I_0, the controlling functions in I_0 are determined. Orig. art. has: 33 equations.

SUB CODE: 22, 01, 19/ SUBM DATE: 04May65/ ORIG REF: 009

Card 2/2

ACC NR: AP6028319   SOURCE CODE: UR/0040/66/030/004/0650/0660

AUTHOR: Kozhevnikov, Yu. V. (Kazan')

ORG: none

TITLE: On the theory of optimal averaging of the controls of dynamic systems

SOURCE: Prikladnaya matematika i mekhanika, v. 30, no. 4, 1966, 650-660

TOPIC TAGS: optimal control, automatic control theory

ABSTRACT: The author develops and supplies a proof of his hypothesis on the optimal
averaging of dynamic system control operations. In the last analysis, optimization of
the control system must reduce to the optimal averaging of control in the sense that
the proper average value of control operations must be found which is uniform for all
states of the system so long as certain bounds (e. g., zones of measurement insensi-
tivity) are not exceeded, and also that the optimization criteria must provide for the
attainment of the extreme value of one of the averaged characteristics of the system.
Assume a control system intended to realize the functionals

$$J_i = f_i(X_1, a, a^l, T^l, P, L) \qquad (i = 0,\ldots,k_0)$$

If a set of permissible controls

$$X_i^{\cdot} = \varphi_i(t, X, v, v^l, P, L), \quad X_i(t_0^l) = \psi_i(P, L), \ \{ X_1 = [X_{i1} = X_i(t_1^l)]$$

$$(t_0^l \leqslant t \leqslant t_1^l; \ i = 1,\ldots, n)$$

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ACC NRi AP6028319

exists which satisfies the equations

$$M[f_i(X_1, a, a^l, T^l, P, L)] = 0, \quad M[f_j(X_1, a, a^l, T^l, P, L)[l] = 0$$
$$(i = 1, \ldots, k; \; j = k + 1, \ldots, k_0)$$

the problem can be posed of selecting those controls which will maximize the functional

$$J = M[f_0(X_1, a, a^l, T^l, P, L)]] \qquad \text{(A)}$$

This control is said to be "optimal on the average", and the process of finding this control amounts to a solution of the problem of optimal averaging of control. The possibility of constructing a family of permissible controls and the principle of optimal averaging of control v, v^l, T^l is established by the following two theorems:

Theorem 1--If v, v^l, T^l is a permissible control, there exists a family of permissible controls which includes v, v^l, T^l, if the ranks of the matrices

$$A = \begin{Vmatrix} B_{11} & \cdots & B_{1, \varkappa+m} \\ \cdots & \cdots & \cdots \\ B_{k1} & \cdots & B_{k, \varkappa+m} \end{Vmatrix}, \quad A^l = \begin{Vmatrix} B_{11}^l & \cdots & B_{1v}^l \\ \cdots & \cdots & \cdots \\ B_{v1}^l & \cdots & B_{vv}^l \end{Vmatrix}$$

Card 2/3

ACC NR: AP6028319

are equal respectively to k and $y = k_0-k$. *Theorem 2*--If the conditions of Theorem 1 are fulfilled, there exists a vector function $\Lambda = (\Lambda_1,\dots,\Lambda_n)$, and also multipliers $\mu_0 = 1$, $\mu_i = \text{const}$, $\mu_j = \mu_j(L)$, $(i = 1,\dots,k)$; $j = (k + 1,\dots,k_0)$, with respect to which the optimal control v, v^l, T^l maximizes (minimizes) the functional (A), and possesses certain stated properties. A possible application of the theory given in the paper is a stochastic case in which one seeks to find the reactive acceleration $u = u(t)$ of a point of variable mass moving in a forceless field with a constant expenditure of power. Also discussed is the problem of optimizing a system of programmed control "in the whole", in which unperturbated motion and the law of regulation of perturbated motion are optimized in terms of a single criterion which takes their interdependency into account. This problem has not been previously discussed in the literature. Orig. art. has: 48 formulas.

SUB CODE: 13,12/   SUBM DATE: 16Mar65/   ORIG REF: 006

Card 3/3

KOZHEVNIKOVA, A.

A duckling gets out of the egg. Nauka i zhizn' 30 no.5:112 My '63.
(MIRA 16:10)

KEDROV-ZIKHMAN, O. K., YARUSOV, S. S.,   KOZHEVNIKOVA, A. N.

Lime, Fertilizers and Manures

Time and methods for liming acid soils sown with clover and timothy. Dokl.
AK sel'khoz No. 5, 1952

Vsesoyuznyy Nauchno-Issledovatel'skiy   I Agronochvovedeniya rcd. 15 Feb. 1952

SO: Monthly List of Russian Accessions, Library of Congress, ___August___ 195**2**, Uncl.

KOZHEVNIKOVA, A.P.

       Severe burn of the esophagus from molten metal. Vest.oto-rin. 17
no.2:80-81 Mr-Ap '55.   (MLRA 8:7)

1. Iz kafedry belezney ukha, gorla i nosa (zav. chlen-korrespondent
AMN SSSR prof. V.F.Undrits) I Leningradskogo meditsinskogo instituta.
       (BURNS,
          esophagus, caused by molten metal)
       (ESOPHAGUS, wounds and injuries,
          burns caused by molten metal)

EXCERPTA MEDICA Sec.11 Vol.10/9 Oto-Rhino-Laryngo Sept57
KoZHEVNIKOVA A. P.

1682. KOZHEVNIKOVA A. P. Leningrad. *Secretory function of sali-
vary glands during inflammatory processes of the mid-
dle ear (Russian text) VESTN. OTO-RINO-LARING. 1957, 3 (24-
29)

The secretory function of the parotid and submaxillary glands in cases of otitis
media was studied h · Krasnogorsky's apparatus, an acid irritant being used. In
acute cases of otitis, hypersecretion of the parotid and submaxillary glands was
noted on the side of inflammation. During chronic epitympanitis hyposecretion of
the salivary glands on the ipsolateral side was observed, conspicuously marked
in cases of cholesteatotomy. If a sparing operation was performed the salivary
function of the parotid and submaxillary glands was usually restored after the sub-
sidence of the reactive phenomena in the operated ear.

KOZHEVNIKOVA, A.P.

Studies on auditory sensitivity with the aid of an acoustic sound
[with summary in English]. Vest.otorin. 20 no.6:39-43 N-D '58
(MIRA 11:12)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - chlen-korrespondent
AMN SSSR prof. V.F. Undrits) I Leningradskogo meditsinskogo instituta
(HEARING TESTS,
auditory sensitivity determ. with aid of an acoustic
sound (Rus))

KOZHEVNIKOVA, A.P.

Leprous encephalitis. Vop.psikh. i nevr. no.5:52-58 '59.
(MIRA 14:5)
1. Iz psikhonevrologicheskoy bol'nitsy No.2 "Podgornoye" NOZO
(glavnyy vrach - A.P.Kozhevnikova) i Psikhonevrologicheskogo instituta
imeni V.M.Bekhtereva (nauchnyy rukovoditel' raboty - prof. Ye.S.
Averbukh).
(ENCEPHALITIS)   (LEPROSY)

KISELEV, A. A., HELHIN, V. A., KOTSYUBINKA, A. V., E MILV, G. I. AND CHELV, E. C.

"Hydrogen Absorption and Changes in the Mechanical Properties of Zirconium and its Binary Alloys when Corroded in Water and Steam at High Temperatures and Pressures."

report presented at the Intl. Conference on the Corrosion of Reactor Materials (IAEA) Salzburg, Austria, 4-9 June 1962.

VODYANITSKAYA, Zh.; KOZHEVNIKOVA, E.

"Industrialization and mechanization in rural construction"
exhibition. Sel'.stroi. 18 no.11:15-16 N '63.   (MIRA 17:3)

1. Sotrudniki pavil'ona "Sel'skoye stroitel'stvo" na Vystavke
dostizheniy narodnogo khozyaystva SSSR.

ANDREYEVA, M.; KHEYFETS, L.S.; GOL'SKAYA, I.F., inzh.-metodist;
    VODYANITSKAYA, Zh.I.; KOZHEVNIKOVA, E.I., starshiy nauchnyy
    sotrudnik; BLIDMAN, A.I.; VORONOV, B.V.

Exhibitions and displays. Inform. biul. VDNKH no.11:10-11,15-18,
26-27,31-32 N '63   (MIRA 18:1)

1.Starshiy ekskursovod pavil'ona "Khimicheskaya promyshlennost'"
na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Andreyeva).
2. Glavnyy inzh. pavil'ona "Stroitel'nyye materialy" na Vystavke
dostizheniy narodnogo khozyaystva SSSR (for Kheyfets). 3. Pav'' 'on
"Energeticheskoye stroitel'stvo" na Vystavke dostizheniy narodnogo
khozyaystva SSSR (for Gol'skaya). 4. Direktor pavil'ona "Sel'skoye
stroitel'stvo" na Vystavke dostizheniy narodnogo khozyaystva
SSSR (for Vodyanitskaya). 5. Pavil(on "Sel'skoye stroitel'stvo"
na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Kozhev-
nikova). 6. Starshiy inzh.-metodist po khraneniyu i pererabotke
zerna pavil'ona "Khraneniye i pererabotka zerna" na Vystavke
dostizheniy narodnogo khozyaystva SSSR (for Blidman). 7. Glavnyy
metodist pavil'ona "Professional'notekhnicheskoye obrazovaniye"
na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Voronov).

GRECHKO, D.I.; KOZHEVNIKOVA, G.I., inzh.-konstruktor

Standardization of accompanying documents. Standartizatsiia
29 no.6:48-49 Je '65.   (MIRA 18:12)

1. Nachal'nik otdela standartizatsii i normalizatsii Altayskogo
motornogo zavoda (for Grechko). 2. Otdel standartizatsii i
normalizatsii Altayskogo motornogo zavoda (for Kozhevnikova).

MALKIN, Ya.Z.; SMIRNOV, M.P.; SERGIYENKO, V.Ya.; KOZHEVNIKOVA, G.I.;
KALNIN, Ye.I.; TARKHOV, N.G.; Prinimali uchastiye: MURSAITOV, Kh.I.;
ABDUGAPAROV, Sh.A.; BOVGUTA, I.D.; TKACHEV, S.P.; FILATOV, N.V.;
SVISTEL'NIKOV, A.M.; PRACHEV, V.N.; SHEYMAN, V.I.; ANTROPOV, A.D.;
SOBOLEV, Ye.D.; POPOVA, N.T.

Industrial testing of a new continuous method of copper removal
from crude lead. TSvet. met. 34 no.2:15-22 Mr '61. (MIRA 14:3)

1. Eksperimental'nyy tsekh Chimkentskogo svintsovogo zavoda (for
Mursaitov, Abdugaparov, Bovguta, Tkachev, Filatov, Svistel'nikov,
Prachev, Sheyman, Antropov, Sobolev, Popova).
        (Lead—Metallurgy) (Copper)

SMIRNOV, M.P.; TARKHOV, N.G.; MALKIN, Ya.Z.; SERGIYENKO, V.Ya.;
KOZHEVNIKOVA, G.I.

Pilot plant development of a new method of copper removal from
crude lead. Sbor. nauch. trud. Gintsvetmeta no.19;432-452 '62.
(MIRA 16:7)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh metallov
(for Smirnov, Tarkhov). 2. Chimkenskiy svintsovyy zavod (for
Malkin, Sergiyenko, Kozhevnikova).
(Lead—Metallurgy)

ZENYAKIN, L. A.; KOZHEVNIKOVA, G. V.

Insecticides

Dusting seeds of grain crops with hexachloran as a means of controlling the wheat
wireworm. Sov. agron. 10 no. 3, 1952.

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

AGALAROVA, D.A.;   KOZHEVNIKOVA, G.Ye.;   KURYLEVA, A.M.

Binomial conditions of the Akchaghykian Sea.   Izv.AN Turk.SSR
no.3:18-24 '55.   (MIRA 9:5)

1. Institut geologii AN Turkmenskoy SSR.
              (Turkmenistan--Geology, Stratigraphic)

DMITRIYEV, A.V., KOZHEVNIKOVA, G. Ye.

Eocene sediments in the region of the Gyaursdag anticline. Izv.
AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.3:91-96 '61
(MIRA 13:1)

1. Institut geologii Gosudarstvennogo geologicheskogo komiteta
SSSR.

KRASHENINNIKOV, V.A.; KOZHEVNIKOVA, G.Ye.

First find of representatives of the genus Bolivinella in Tertiary
deposits of the Soviet Union. Vop. mikropaleont. no.4:121-127 '60.
(MIRA 14:5)
1. Geolpgicheskiy institut Akademii nauk SSSR i Institut geologii
Akademii nauk Turkmenskoy SSR.
(Foraminifera, Fossil)

DMITRIYEV, A.V.; KOZHEVNIKOVA, G.Ye.

Paleogene of the central Kopetdag. Izv. AN Turk.SSR, Ser. fiz.-
tekh., khim. i geol. nauk no.2:99-107 '63.   (MIRA 17:8)

1. Institut geologii AN Turkmenskoy SSR.

KALUGIN, P.I., akademik; DMITRIYEV, A.V.; KOZHEVNIKOVA, G.Ya.;
     ALIYEV, M.M., akademik, red.; MIROYEDOVA, A., red.

     [Stratigraphy of Upper Cretaceous and Paleocene sediments
     in the Kopetdag and Badkhyz] Stratigrafiia verkhnemelovykh
     i paleotsenovykh otlozhenii Kopet-Daga i Badkhyza. Ashkhabad,
     Turkmenizdat, 1964. 342 p.   (MIRA 18:3)

     1. Akademiya nauk Turkmenskoy SSR (for Kalugin). 2. Akademiya
     nauk Azerbaydzhanskoy SSR (for Aliyev).

KOZHEVNIKOVA, I.A., laborant

Practical significance of a method for laboratory analysis of the cerebrospinal fluid. Med.sestra 18 no.12:32-35 '59.   (MIRA 13:3)

1. Iz laboratorii klinicheskoy ordena Lenina bol'nitsy imeni S.P. Botkina, Moskva.

(CEREBROSPINAL FLUID--ANALYSIS)

GUSEV, S.I.; SOKOLOVA, Ye.V.; KOZHEVNIKOVA, I.A.

Determination of chlorides by means of β-hydroxynaphthylal-
α-aminopyridine. Zhur.anal.khim. 17 no.4:499-501 Jl '62.

(MIRA 15:8)

1. Perm State Medical Institute.

(Chlorides) (Pyridine)

GUSEV, S.I.; KOZHEVNIKOVA, I.A.

Indirect titrimetric determination of bromides with complexon III. Zhur. anal. khim. 18 no.3:366-370 Mr '63.   (MIRA 16:5)

1. Permskiy meditsinskiy institut.

GUSEV, S.I.; KOZHEVNIKOVA, I.A.

β-Hydroxynaphthyl-2-aminopyridine complexes of lead. Zhur. neorg. khim. 9 no.10:2403-2406 O '64.

1. Permskiy meditsindkiy institut.   (MIRA 17:12)

GLADKAYA, V.F., inzh.; KOZHEVNIKOVA, I.M., inzh.; LOZHESHNIK, V.K., inzh.;
     KAPLUNOV, S.Z., inzh.

Processing of whale oil. Masl.-zhir.prom. 29 no.11:43-46 N '63.

(MIRA 16:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut maslozhirovoy
promyshlennosti (for Gladkaya, Kozhevnikova). 2. Kuybyshevskiy
zhirovoy kombinat (for Lozheshnik). 3. Kitoboynaya flotiliya
"Slava" (for Kaplunov).

KARNAUKH, A.M., inzh.; DEYNEKHOVSKAYA, Z.P.; KOZHEVNIKOVA, I.M.

Some invetigations in the field of high-molecular-weight normal
alkyl sulfates. Masl.-zhir.prom. 26 no.7:20-23 Jl '60.

(MIRA 13:7)

1. Ukrainskiy Nauchno-issledovatel'skiy institut maslozhirovoy
promyshlennosti.

(Sulfuric acid)   (Surface active agents)

SLOMINSKIY, L.I., inzh.; KOZHEVNIKOVA, I.M., inzh.

Cleaning compounds based on sulfates of incomplete esters formed by fatty acids and polyatomic alcohols. Masl.-zhir.prom. 27 no.1:21-23 Ja '61.
(MIRA 14:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut maslozhirovoy promyshlennosti.
(Cleaning compounds)

RYVNIKOV, I.L.; CHINENKOVA, V.L.

Study of the lesser circulation in patients with mitral stenosis.
Uch. trudy GMI no.19:33-36 '65.   (MIRA 18:2)

1. Iz kafedry patologicheskoy anatomii i kliniki gospital'noy
khirurgii Gor'kovskogo gosudarstvennogo meditsinskogo instituta
imeni S.M.Kirova.

UTKOV, A.A.; CHINENKOVA, V.N.; KOZHEVNIKOVA, I.N.

Roentgenological changes in the lungs immediately after a mitral
commissurotomy. Uch. trudy GMI no.19:37-44 '65.
(MIRA 18:8)

1. Iz kliniki gospital'noy khirurgii i kafedry patologicheskoy
anatomii Gor'kovskogo gosudarstvennogo meditsinskogo instituta
imeni S.M.Kirova.

KOZHEVNIKOVA, I.N.

       Characteristics of the morphological changes in the meninx and
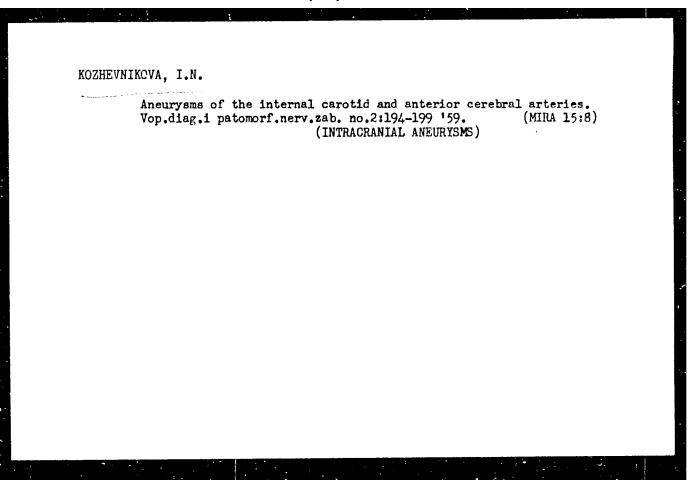ependyma in tuberculous meningitis treated with streptomycin.
Vop.diag.i patomorf.nerv.zab. no.2:147-152 '59.   (MIRA 15:8)
    (MENINGES—TUBERCULOSIS)   (STREPTOMYCIN)   (BRAIN)

KOZHEVNIKOVA, I.N.

Fibrous changes and the resorption of fibrous connective tissue in tuberculous meningitis. Vop.diag.i patomorf.nerv.zab. no.2:153-157 '59. (MIRA 15:8)

(MENINGES--TUBERCULOSIS)

KOZHEVNIKCVA, I.N.

Aneurysms of the internal carotid and anterior cerebral arteries.
Vop.diag.i patomorf.nerv.zab. no.2:194-199 '59.   (MIRA 15:8)
(INTRACRANIAL ANEURYSMS)

KAMYSHEV, N., prof.; KOZHEVNIKOVA, L.

In the Council of the All-Union Botanical Society; concerning
S.S.Stankov and V.I.Taliev's "Guide." Bot.zhur. 44 no.6:902
Je '59.   (MIRA 12:11)

1. Predsedatel' Voronezhskogo otdeleniya Vsesoyuznogo botani-
cheskogo obshchestva (for Kamyshev). 2. Sekretar' Voronezhskogo
otdeleniya Vsesoyuznogo botanicheskogo obshchestva (for Kozhevni-
kova).
          (Botany) ,(Stankov, S.S.)   (Taliev, V.I.)

S/058/61/000/012/033/0??
A058/A101

AUTHOR: Kozhevnikova, L. A.

TITLE: Concerning the effect of molecular type and elemental composition
            on the relative intensity of the chromium-molybdenum spectral line
            pair

PERIODICAL: Referativnyy zhurnal, Fizika, no. 12, 1961, 249, abstract 12G194
            ("Uch. zap. Permsk. un-t", 1959, v. 13, no. 3, 11-13)

TEXT: There are given the results of investigating the effect of the type
of molecular compounds and the effect of third components (Ca, Hg, Al and Fe) on
the relative intensity of Mo-Cr lines incident to AC-arc excitation of spectra.

[Abstracter's note: Complete translation]

Card 1/1

S/058/62/000/012/022/048
A160/A101

AUTHOR: Kozhevnikova, L. A.

TITLE: An experimental study of the effect of diluents on the relative intensity of spectral lines of chromium and molybdenum

PERIODICAL: Referativnyy zhurnal, Fizika, no. 12, 1962, 29, abstract. 12G287 ("Uch. zap. Permsk. un-t", no. 1, 1961, v.19, 131 - 133)

TEXT: An investigation was carried out of the effect of the binary-mixture diluents, $SiO_2 \cdot x\ H_2O$ + alkali-earth-metal carbonates and alkali-earth metals + Fe_2O_3, on the relative intensity of the Cr and Mo lines. It is shown that in case of a fivefold dilution of the samples with a $CaCO_3$ - SiO_2 X xH_2O mixture, the latter can be analyzed by synthetic standards made on the basis of the same mixture. A similar effect is obtained when using the mixtures $SiO_2 \cdot xH_2O$ with $CrCO_3$ and Fe_2O_3.

M. Britske

[Abstracter's note: Complete translation]

Card 1/1

KOZHEVNIKOVA, L.A.   *110*

PHASE I BOOK EXPLOITATION   SOV/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960.
   Materialy (Materials of the Third Ural Conference on Spectros-
   copy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip
   inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR.
   Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G.
   Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publish-
   ing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff
   members of spectral analysis laboratories in industry and scien-
   tific research organizations, as well as for students of related
   disciplines and for technologists utilizing analytical results.

Card 1/15

/18

Materials of the Third Ural Conference (Cont.)   SOV/6181

COVERAGE: The collection presents theoretical and practical prob-
    lems of the application of atomic and molecular spectral analy-
    sis in controlling the chemical composition of various material
    in ferrous and nonferrous metallurgy, geology, chemical indus-
    try, and medicine. The authors express their thanks to G. V.
    Chentsova for help in preparing the materials for the press.
    References follow the individual articles.

TABLE OF CONTENTS:

Card 2/15

Materials of the Third Ural Conference (Cont.)   SOV/6181

Buravlev, Yu. M., V. I. Ustinova, and G. P. Neuymina.
    Effect of carburization and nitriding on the results
    of spectral analysis of construction steels   47

Grinzayd, Ye. L., and F. D. Korobko. Effect of total com-
    position of alloy steels on results of silicon determina-
    tion   52

Shavrin, A. M., M. A. Zotin, L. A. Kozhevnikova, and Yu. A.
    Makhnev. Dependence of the relative intensity of the
    zinc line on its concentration in zinc-rich alloys of
    the copper-zinc system   57

Fishman, I. S. Experimental investigation methods of
    material admission [from electrodes into the discharge
    zone]   60

Card 5/15

KOZHEVNIKOVA, L.F.

Preparation of yeast at the Lutsk Alcohol Plant. Spirt. prom.
24 no. 4:27 '58.   (MIRA 11:7)
                              (Yeast)

KozHEVNIKOVA, L. G.

USSR/Chemistry - Metalorganic compounds

Card 1/1   Pub. 22 - 25/48

Authors   : Chernyshev, E. A., and Kozhevnikova, L. G.

Title   : Addition of lithium to alpha-trialkylsilylnaphthalines

Periodical   : Dok. AN SSSR 98/3, 419-422, Sep 21, 1954

Abstract   : The reaction of lithium addition to alpha-trialkylsilylnaphthalin was investi-
               gated. It was found that the trialkylsilyl substitute increases the rate of
               Li-addition to naphthalin. It was also established that Li attaches itself
               only to the ring which has no substitute. This fact was confirmed by the
               difference in the infrared spectra of these compounds. Detailed results of
               the investigation are presented in the table. Five USSR references (1946-
               1953)

Institution : Acad. of Sc. USSR, The N. D. Zelinskiy Institute of Organic Chemistry

Presented by: Academician B. A. Kazanskiy, May 15, 1954

KOZHEVNIKOVA, L.I.

Effect of grazing on the vegetation of steppe slopes.
Nauch.zap.Vor.otd.VBO za:46-48 '64.

Phenology of steppe slopes. Ibid.:49-53

(MIRA 18:11)

KOZHEVNIKOVA, L. M.

KOZHEVNIKOVA, L. M., "Some Data on the Role of Cotton Seeds as a Source of Infection with Hadromycosis in Central Asia," in Cotton Diseases,   All Union Scientific-Research Cotton Institute, Tashkent, 1938, pp. 109-119.   464.042 T18

SO: SIRA SI-19-53, 15 Dec 1953

KOZHEVNIKOVA, L. M.

KOZHEVNIKOVA, L. M. "New Disease of Winter Cereals in Penza Oblast (Typhula itoana),"
Sotsialisticheskue Zernovoe Khoziaistvo, no. 4, 1946, pp. 47-50.   59.8   So 72

SO: SIRA SI-19-53, 15 Dec 1953

PA 5?T6?

KOZHEVNIKOVA, L. M.

USSR/Medicine - Plants
      Medicine - Diseases

Jan 1947

"The Causes of the Death of Winter Crops in Certain Regions," L. M. Kozhevnikova, 3 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LV, No 1

Discusses death of winter crops in Penza Oblast which is an almost annual occurrence. Attributes this to presence, in the roots, of some form of fungoid sickness and states that infection of plants takes place in autumn. Submitted by Academician A. A. Rikhter, 3 Aug 1946.

58T68

KOZHEVNIKOVA, L.M.

Review of Applied Mycology.
V. XXXIII Part 1.
Jan. 1954

KOZHEVNIKOVA (Mme L. M.). Солнечное облучение семян яровой Пшеницы как мера борьбы против пыльной головни. [Solar treatment of spring Wheat seed as a control measure against loose smut.]—Агробиология [*Agrobiology, Moscow*], 1953, 3, pp. 41–46, 1953.

In studies at the Dokuchayev Agricultural Institute, Voronezh District, U.S.S.R., three and seven days' solar treatment [cf. *R.A.M.*, 32, p. 179] of spring wheat grain increased germination from 76·5 and 80·5 (controls) to 89 and 92 per cent., respectively, increased vigour, and reduced loose smut (*Ustilago tritici*) [32, p. 369] in the succeeding crop from 1 per cent. in the untreated to 0·06 per cent.

KOZHEVNIKOVA, L. M.

USSR/Plant Diseases - Diseases of Cultivated Plants.   O.

Abs Jour   :   Ref Zhur - Biol., No 8, 1957, 34934

Author   :   Kozhevnikova, L.N.

Inst   :   Bull. of Inst. for Agr. ...

Title   :   Spring Exposure to Light of the Seeds of Summer Wheat
                As a Means of Fighting Smut.

Orig Pub   :   Byul. nauchno-tekhn. inform. ... in-ta, s. kh. TSChP, 1956,
                No 1, 43-44.

Abstract   :   3-5-7 day exposure to the sun during 3,5 and 7 days in
                Spring considerably decreased the damaging effects of
                the seeds.

Card 1/1

- 4 -

USSR/Zooparasitology. Ticks and Insects--Vectors of   G
    Causative Agents of Diseases

Abs Jour   : Ref Zhur-Biol, No 13, 1958, 57957

Author   : Pavlov I. F., Kozhevnikova L. M.
Inst   : Not given
Title   : The role of the Swedish Fly in the Dissemina-
              tion of Vesicular Rust

Orig Pub   : Kukuruza, 1957, No 7, 44-45

Abstract   : Twelve to 73% of corn plants in Voronezh Oblast
              were injured by the Swedish fly, according to
              data obtained by the Scientific-Research Insti-
              tute of Agriculture imeni Dokuchayev. The plants
              injured by the fly in 1955 became rust infected
              with an intensity 3 times greater greater than
              the noninjured plants; in 1956--with an inten-
              sity 13 to 19 times greater than the noninjured

Card 1/2

KOZHEVNIKOVA, L.M., starshiy nauchnyy sotrudnik; ONUFRIYEV, A.F., aspirant

Diseases of the Jerusalem artichoke. Zashch. rast. ot vred.
i bol. 5 no. 8:56-57 Ag '60.   (MIRA 13:12)

1. Nauchno-issledovatel'skiy institut ovoshchnogo khozyaystva
TSentral'noy chernozemnoy polosy imeni V.V.Dokuchayeva.
            (Jerusalem artichoke--Diseases and pests)

SHESAREV, K.A.; KOZHEVNIKOVA, L.P.

Method of determining chlorocarboxylic acids. Zav. lab. 31 no.1:
36-37 '65.   (MIRA 18:3)

1. Gosudarstvennyy institut azotnoy promyshlennosti i produktov
organicheskogo sinteza.

/P. 9200
~~18(3)~~

67325

AUTHORS: Vasil'yev, D.M., Kozhevnikova, L.V.   SOV/181-1-8-30/32

TITLE: On the Nature of the Fluidity Area of Pure Iron and Carbon
               Steels

PERIODICAL: Fizika tverdogo tela, 1959, Vol 1, Nr 8, pp 1316-1319 (USSR)

ABSTRACT: By a method described by D.M. Vasil'yev it is possible to
               follow directly the behavior of the matrix regions and of the
               brittle skeleton in plastic deformation, and also to determine
               the structural stresses acting upon the A-region (of the
               matrix) and the B-region (grain boundaries and mosaic blocks,
               hard phases). Between the residual microstresses σ_i, the

               microstresses σ_m, and the "structural stresses", the relation

               $\sigma_{st} = \sigma_m + \sigma_i$ holds. The microstresses σ_i in turn are com-
               posed of the microstresses $\overline{\sigma}_i$. The stresses acting upon the

               ferrite of the carbon steel were experimentally measured for
               steel with 0.22%C in normalized steel and in steel tempered at
               680°. The results illustrated in a diagram show the following:
               As soon as the fluidity area is found, the structural stresses
Card 1/3   acting upon the ferrite become smaller than the macroscopic

On the Nature of the Fluidity Area of Pure Iron
and Carbon Steels

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SOV/181-1-8-30/32

stresses, and this difference is conserved up to very high
degrees of plastic deformation. When considering the disper-
sion $\Delta \sigma_{st} = \Delta \sigma_i$, the sample exhibits regions in which the
stress almost vanishes, in addition to the ferrite regions in
which the stress is somewhat larger than σ_m. For the direct
determination of the "structural stresses" acting upon cementite
the authors used U-8 steel annealed at 760°. On a sample
stretched by 10% it was possible to determine the average
structural stresses $\bar{\sigma}_{st}$ of the ferrite and cementite. Immed-
iately after the passage through the fluidity area, underloading
of the ferrite begins with a considerable overload of the
cementite, which fact sharply contradicts the Koster hypothesis.
Apart from cementite apparently also the grain boundaries and
the mosaic blocks play an important part by taking up part of
the overload. In a metal containing either no impurities or
which is subject to such conditions as prevent the formation
of "atmospheres" around the dislocations, the curves of
average structural stresses correspond to the macroscopic

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On the Nature of the Fluidity Area of Pure Iron   SOV/181-1-8-30/32
and Carbon Steels

     deformation curve. The X-ray curves of deformation are smooth.
     If there are "atmospheres", the macroscopic curve of deforma-
     tion is a straight line in the initial stage of the process,
     and the structural stresses are not necessarily equal to the
     macroscopic stresses. The plastic deformation leads to a
     skeleton fracture. This, however, is no obstacle for the
     particles scattered into the material of the boundary-near
     regions in the way of taking up also the structural overload
     stresses, and to compensate in this manner for the underload
     of the weak A-regions of the matrix. A direct experimental
     hypothesis thus contradicts the Koster hypothesis where it
     holds that the cementite skeleton in the fluidity area of
     steel is unloaded. There are 3 figures, 3 tables, and 4
     references, 3 of which is Soviet.

ASSOCIATION: Leningradskiy politekhnicheskiy institut (Leningrad Polytechnic
     Institute)

SUBMITTED: April 4, 1959
Card 3/3

BAKHVALOV, I., direktor; STEPANOV, V., zaveduyushchiy partkabinetom; ZYUZIN, S., frezerovshchik-rastochnik; KSENOKRATOV, V., inzhener; KOZHEVNIKOVA, M., nachal'nik tokarno-otdelochnogo otdeleniya, laureat Stalinskoy premii; UL'YANOV, M., predsedatel' tsekhkoma sborochnogo tsekha; NAUMOV, A., brigadir komsomol'sko-molodezhnoy brigady; DUDKIN, I., dotsent, direktor; ZHUKOV, P., tokar'.

[In a progressive plant; accounts of workers and technical engineering workers of the Moscow Order of the Red Banner of Labor Second State Bearing Plant] Na peredovom zavode; rasskazy rabochikh i inzhenerno-tekhnicheskikh rabotnikov Moskovskogo ordena Trudovogo Krasnogo Znameni 2-go Gosudarstven- nogo podshipnikovogo zavoda. [Moskva] Profizdat, 1952. 94 p. (MLRA 6:5)

1. Moskovskiy ordena Trudovogo Krasnogo Znameni vtoroy Gosudarstvennyy pod- shipnikovyy zavod. 2. Vecherniy mashinostroitel'nyy institut (for Dudkin).
(Efficiency, Industrial)

KOZHEVNIKOVA, M.I.

Fungus diseases and their prevention. Fel'dsher & akush., Moskva no.10:
13-19 Oct 1952.   (CLML 23:2)

KOZHEVNIKOVA, M.I.

[Fungous diseases and their control] Gribkovye zabolevaniia i bor'ba
s nimi. Moskva, Medgiz, 1954. 29 p.   (MLRA 9:4)
                    (MEDICAL MYCOLOGY)

KOZHEVNIKOVA, M.I. (Moskva)

Means of liquidating fungos diseases in villages. Sov.zdrav. 15
no.2:34-37 Mr-Ap '56.   (MLRA 9:7)
        (FUNGUS DISEASES, prev. and control
            in villages in Russia)

KOZHEVNIKOVA, M.I.

Epidemiology of favus and the possibility of its liquidation in
the Moscow Province; results of a 33-year observation period.
Vest.derm.i ven. 34 no.8:32-39 '60.   (MIRA 13:11)

1. Iz Moskovskogo oblastnogo mikologicheskogo kabineta.
                    (MOSCOW PROVINCE—FAVUS)

KOZHEVNIKOVA, M.I.

Observations on the clinical picture of combined dermatomycoses and the treatment of favus. Vest.derm.i ven. [35] no.2:25-30 F '61.   (MIRA 14:3)

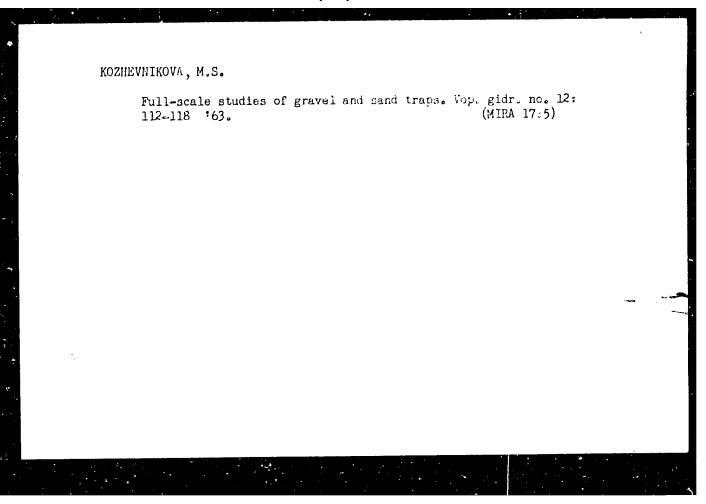1. Iz Moskovskogo oblastnogo mikologicheskogo kabineta.
(DERMATOMYCOSIS)

KOZHEVNIKOVA, M.K. (Leningrad); NOVOZHILOV, V.V. (Leningrad)

Approximate theory of the hindered torsion of closed thin-walled
reds accounting for distortions in the cross sections. Izv.AN
SSSR.Otd.tekhn.nauk. no.9:72-83 S '56.   (MLRA 9:9)
(Elastic reds and wires) (Torsion)

FROLIKOVA, Ye.Ya.; KOZHEVNIKOVA, M.S.

Supports of upstream slopes of earth dams of water reservoirs
in Central Asia. Vop. gidr. no. 12:68-79 '63. (MIRA 17:5)

KOZHEVNIKOVA, M.S.

Full-scale studies of gravel and sand traps. Vop. gidr. no. 12:
112-118 '63.   (MIRA 17:5)

KOZHEVNIKOVA, Mariya Vladimirovna; SHISHKINA, A.G., red.

[Analysis of economic activities on collective farms]Analiz
khoziaistvennoi deiatel'nosti kolkhozov. Pod red. A.G.
SHishkina, Saratov, 1960. 165 p.   (MIRA 15:10)
                    (Collective farms)

KOZHEVNIKOVA, M.V.

"An Analysis of the Economic Activity of the Kolkhozes";

dissertation for the degree of Candidate of Economic Sciences
(awarded by the Timiryazev Agricultural Academy, 1962)

(Izvestiya Timiryazevskoy Sel'skokhozyaystvennoy Akademii, Moscow, No. 2,
1963, pp 232-236)

M L

COUNTRY   : USSR
CATEGORY   : Meadow Cultivation.

ABS. JOUR. : RZBiol., No. 1, 1959, No. 1529

AUTHOR   : Kozhevnikova, N.D.
INST.   : A.S. Kirghiz SSR
TITLE   : Certain Facts on the Effect of Grazing on the
              Peashrub-Grass-Wormwood Arid Steppe of Issyk-
              Kul'skaya Hollow.

ORIG. PUB. : Izv. AN KirgSSR, 1958, vyp. 5, 149-164

ABSTRACT   : Based on studies of the stages of vegetation
              change under the influence of pasture, a
              method of synthetic ecological series has
              been advanced. Resulting from an analysis
              of the ecological factors active in the dry
              steppe at Issyk-Kul'skaya Hollow, the vege-
              tations of the individual sections of the
              pasture area studied and the intensity of
              grazing have been differentiated into six
              stages of modification. A description is
              presented of the vegetation of these stages
              and the causes of the subsequent processes

CARD: 1/2

KOZHEVNIKOVA, N.D.

Vegetation cover of the Sary-Chat River basin (central Tien Shan) and the main features of its distribution. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 2 no.10:73-89 '60.
(MIRA 17:3)

BLAGOOBRAZOV, V.A.; BONDAREV, L.G.; KOZHEVNIKOVA. N.D.; POGODINA, G.S.;
  TOKOBAYEV, M.M.; CHUMICHEVA, G.D.; SHCHERBAKOV, M.P.; ZABIROV,
  R.D., kand. geogr. nauk, red.; BLAGOOBRAZOV, V.A., red.;
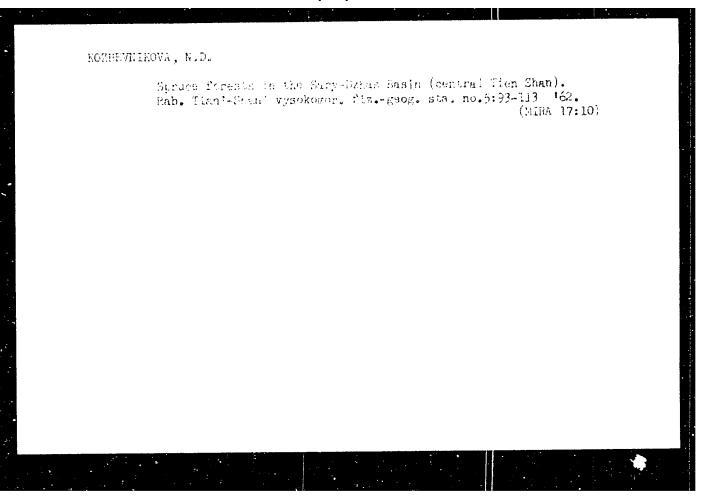 SKRIPKINA, Z.I., red.izd-va; ANOKHINA, M.G., tekhn. red.

[The Naryn River basin; physicogeographical features] Bassein reki
  Naryn;fiziko-geograficheskaia kharakteristika. Frunze, 1960. 288 p.
                                                 (MIRA 14:6)
  1. Akademiya nauk Kirgizskoy SSR, Frunze. Otdel geografii.
                (Naryn Valley—Physical geography)

KOZHEVNIKOVA, N.D.

Influecne of grazing on the aerial and underground parts of
vegetation in the arid African millet-grass-Artemisia type
steppe in the Issyk-Kul' Depression. Izv. AN Kir. SSR. Ser. est.
i tekh. nauk 3 no.5:99-114 '61.   (MIRA 15:9)
        (Issyk-Kul' region--Pastures and meadows)

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AUTHORS: Rotinyan, A. L.; Kozhevnikova, N. M.

TITLE: Electrochemistry of niobium. 1. Overvoltage of hydrogen evolution on niobium.

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TOPIC TAGS: electrochemistry, niobium, hydrogen, slow discharge theory.

ABSTRACT: The effect of surface current, temperature, and acid concentrations on overvoltage during evolution of hydrogen on niobium was studied. The relation between the degree of electrode saturation and amount of overvoltage is explained. Hydrogen overvoltage on niobium is shown to diminish and the parameter of the crystal lattice to increase as the metal is saturated with hydrogen. The hydrogen overvoltage assumes a steady value after formation of the Beta-phase with lattice parameters a = 3.44-3.45 kX. This is attained by long term cathodic polarization. The dependence of the overvoltage upon lg i_k and upon the pH of the solution is in conformity with the slow discharge theory. The temperature coefficient of hydrogen overvoltage at moderate current densities is 1-1.5 mv/degree. The

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