"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

AL'BREKHT, Vladimir Georgiyevich, prof.; BOLOTIN, Vasiliy Ivanovich, inzh.; KARPOV, N.A., kand. tekhn. nauk, retsenzent; SERGEYEVA, A.I., inzh., red.; VERINA, G.P., tekhn. red.

[Small-scale mechanization of the operations in track maintenance and repair]Malaia mekhanizatsiia v putevom khoziaistve. Moskva, Transzheldorizdat, 1962. 124 p. (MIRA 16:1)
(Railroads--Track)
(Railroads--Equipment and supplies)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, Vasiliy Ivanovich; ZHEREBIN, Mikhail Isakovich; SOROKIN, Nikolay Nikolayevich; OSIPOV, M.I., inzh., retsenzent [deceased]; POTOTSKIY, G.I., inzh., red.; USENKO, L.A., tekhn. red.

[Manual for a track foreman] Posobie brigadiru puti. Moskva, Transzheldorizdat, 1962. 346 p. (MIRA 15:6)
(Railroads—Maintenance and repair)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, V.I.

Make wider use of the snow thawing method. Put' i put.khoz. 6 no.12:4 '62. (MIRA 16:1)

1. Nachal'nik distantsii puti, st. Moskva-Savelovskaya.
(Railroads--Snow protection and removal)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

ULYUYEV, D.I., inzh.; POLOTIN, V.I., inzh., retsenzent; BELETSKIY, V.V., inzh., retsenzent; SERGEYEVA, A.I., inzh., red.; KHITROVA, N.A., tekhn. red.

[Handbook for the track maintenance worker] Posobie putevomu rabochemu. Moskva, Transzheldorizdat, 1963. 322 p. (MIRA 16:8)

(Railroads--Track)
(Railroads--Equipment and supplies)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

ULYUYEV, D.I., inzh.; BOLOTIN, V.I., inzh., retsenzent; BELETSKIY, V.V., inzh., retsenzent; SERGEYEVA, A.I., inzh., red.

[Manual for a track worker] Posobie putevomu rabochemu. Moskva, Transzheldorizdat, 1963. 322p. (MIRA 17:5)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, V.I.; LEKHNO, I.B.; LIDERS, G.V.

Book on track overhauling. Put' i put. khoz. 8 no.1:39 '64. (MIRA 17:2)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, V.I., inzh.

Effect of tie tamping on the control of splashes. Vest. TSNII MPS 23 no.6:44-46 '64. (MIRA 17:10)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, V.V., doktor tekhn nauk, prof.

Survey of studies on the statistical dynamics of elastic systems. Rasch. na proch. no.10:211-260 '64. (MIRA 18:1)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, V.V. (Moskva)

Vibrations of multilayer curvilinear rods. Inzh. zhur. 4 no.4:
705-712 '64 (MIRA 18:2)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, Vladimir Vasil'yevich, prof., doktor tekhn. nauk;

[Statistical methods in structural mechanics] Statisticheskie metody v stroitel'noi mekhanike. Izd.2., perer. i dop. Moskva, Stroiizdat, 1965. 278 p.
(MIRA 18:5)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, V.V., prof., red.; RABINOVICH, I.M., prof., red., SMIRNOV, A.F., prof., red.; LUZHIN, O.V., kand. tekhn. nauk, nauchn. red.

[Problems of stability in structural mechanics] Problemy ustoichivosti v stroitel'noi mekhanike; trudy. Moskva, Stroiizdat, 1965. 474 p. (MIRA 18:5)

1. Vsesoyuznaya konferentsiya po problemam ustoychivosti v stroitel'noy mekhanike, Moskva, 1963.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, V.V. (Moskva)

Theory of reinforced bodies. Izv. AN SSSR. Mekh. no.1:74-80 Ja-F '65. (MIRA 18:5)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

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L 61710-65 EWT(d)/EWT(l)/EWP(m)/EWT(m)/EWP(w)/EWA(d)/EWP(v)/EPR/EWP(k)/EWA(h)/
FCS(k)/EWA(l) Pd-1/Pf-4/Peb/Pi-4 WW/EM

ACCESSION NR: AP5016233 UR/0373/65/000/003/0077/0083

AUTHORS: Bolotin, V. V. (Moscow); Makarov, B. P. (Moscow)

TITLE: Approximate solution of certain statistical dynamics problems

SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 3, 1965, 77-83

TOPIC TAGS: Markov process, boundary value problem, reliability

ABSTRACT: The authors find an approximate solution of determination of the mean time for attaining the boundary of a multidimensional Markov process by applying the method of Galerkin to Pontryagin's boundary value problem. The accuracy is estimated by comparison with known exact solutions. The problem is of interest in reliability and lifetime fatigue problems. They apply their method to a study of a simplified model of an elastic shell subject to random forces of white noise type. Orig. art. has: 6 figures and 34 formulas.

ASSOCIATION: none

SUBMITTED: 21Dec64 ENCL: 00 SUB CODE: MA

NO REF SOV: 009 OTHER: 000

Card 1/1 ee

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, V.V. (Moskva); KURANOV, B.A. (Moskva); MAKAROV, B.P. (Moskva)

Oscillations of circular transformer windings. Izv.AN SSSR.Energ.i transp. no.4:86-90 Jl-Ag '65. (MIRA 18:10)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, V.V., doktor tekhn. nauk, prof.; MAKAROV, B.P., kand. tekhn. nauk; MISHENKOV, G.V., kand. tekhn. nauk; NAGORNOV, L.N., inzh.; POMAZI, L., aspirant

Some problems of dynamic stability of elastic rings subjected to sudden loading. Izv. vys. ucheb. zav.; mashinostr. no.6: 78-82 '65. (MIRA 18:8)

1. Moskovskiy energeticheskiy institut.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

L 32736-66 EWP(w) EM

ACC NR: AT6015982 (N) SOURCE CODE: UR/2572/65/000/011/0031/0063

AUTHOR: Bolotin, V. V. (Doctor of technical sciences, Professor)

ORG: none

34
B+1

TITLE: Strength, stability and oscillations of multilayered plates

SOURCE: Raschety na prochnost'. Teoreticheskiye i eksperimental'nyye issledovaniya prochnosti mashinostroitel'nykh konstruktsiy. Sbornik statey, no. 11, 1965, 31-63

TOPIC TAGS: sandwich structure, flat plate, stress analysis, plate vibration, variational method, Lagrange equation, Hamilton equation

ABSTRACT: The theory of sandwich structures consisting of soft and rigid layers is analyzed. The condition for a rigid and soft layer is given respectively by the set of inequalities

$$\varphi > \delta, \quad \frac{\eta^2}{\psi} < \delta, \quad \frac{\eta^4}{\varphi_z} < \delta$$

and

$$\varphi < \delta, \quad \frac{\eta^2}{\psi} > \delta, \quad \frac{\eta^4}{\varphi_z} < \delta,$$

where

$$E = \varphi \bar{E}, \quad E_z = \varphi_z \bar{E}, \quad G = \psi \bar{E},$$

and δ is a small positive number. The analysis is generalized to an arbitrary

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

sequence of soft and rigid layers which are constant in thickness and are elastic. The governing equations are derived from Lagrange's variational principles, and the following expression is derived for the potential energy of the structure

$$\tilde{U}_\alpha = \frac{1}{2}\iint_\Omega B_\alpha\left[\left(u_{\alpha+1} - u_\alpha + r'_\alpha \frac{\partial w_{\alpha+1}}{\partial x} + r'_\alpha \frac{\partial w_\alpha}{\partial x}\right)^2 + \right.$$

$$\left. + \left(v_{\alpha+1} - v_\alpha + r'_\alpha \frac{\partial w_{\alpha+1}}{\partial y} + r'_\alpha \frac{\partial w_\alpha}{\partial y}\right)^2\right] dxdy + \frac{1}{2}\iint_\Omega C_\alpha (w_{\alpha+1} - w_\alpha)^2\, dxdy.$$

The governing Ostrogradskiy-Euler equations for $\alpha = 2,3,\ldots,n-1$ are then given by

$$D_\alpha \Delta\Delta w_\alpha + C_{\alpha-1}(w_\alpha - w_{\alpha-1}) - C_\alpha (w_{\alpha+1} - w_\alpha) - B_{\alpha-1} r'_{\alpha-1}\left[\frac{\partial}{\partial x}(u_\alpha - u_{\alpha-1}) + \frac{\partial}{\partial y}(v_\alpha - v_{\alpha-1}) + r'_{\alpha-1}\Delta w_\alpha + \right.$$

$$\left. + r'_{\alpha-1}\Delta w_{\alpha-1}\right] - B_\alpha r'_\alpha\left[\frac{\partial}{\partial x}(u_{\alpha+1} - u_\alpha) + \frac{\partial}{\partial y}(v_{\alpha+1} - v_\alpha) + r'_\alpha \Delta w_{\alpha+1} + r'_\alpha \Delta w_\alpha\right] = q_\alpha$$

$$(\alpha = 1, 2, \ldots, n).$$

For $\alpha = 1$ and n, $B_0 = C_0 = 0$ and $B_n = C_n = 0$. The analysis of the boundary conditions on the free contour of the structure permits the proper selection of the system of internal stresses. Special and limiting solutions are considered first. For example, for $B_\alpha = 0$ one obtains the equations of a plane rigid layer and $B_\alpha = C_\alpha = 0$ leads to the classical problem of plates. Next, the case of a regular sandwich is considered, composed of homogeneous soft and rigid layers with an external load given by

$$q_c = Q \sin k_1 x \sin k_2 y \left(k_1 = \frac{p_1\pi}{a},\ k_2 = \frac{p_2\pi}{b}\right).$$

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The boundary conditions for the problem are stated as

$$\left.\begin{aligned} w &= \frac{\partial^2 w}{\partial x^2} + \nu \frac{\partial^2 w}{\partial y^2} = 0 \quad (x = 0,\ x = a), \\ w &= \frac{\partial^2 w}{\partial y^2} + \nu \frac{\partial^2 w}{\partial x^2} = 0 \quad (y = 0,\ y = b), \end{aligned}\right\}$$

$$\left.\begin{aligned} &\frac{\partial u_\alpha}{\partial x} + \nu \frac{\partial v_\alpha}{\partial y} = v_\alpha = 0 \\ &(x = 0,\ x = a;\ \alpha = 0, \pm 1, \pm 2, \ldots, \pm n_1) \\ &\frac{\partial v_\alpha}{\partial y} + \nu \frac{\partial u_\alpha}{\partial x} = u_\alpha = 0 \\ &(y = 0,\ y = b;\ \alpha = 0, \pm 1, \pm 2, \ldots, \pm n_1) \end{aligned}\right\}.$$

For the case of the structure with a very large number of layers it is shown that the problem becomes equivalent to substituting the inhomogeneous plate with some uniform but anisotropic plate. Finally, Hamilton's principle is used to derive the governing equations for the plate oscillation, and Trefftz's principle is used to obtain the equations of neutral equilibrium for the zero-moment case. The critical load is then determined for a regular, rectangular, and transversally rigid plate. Orig. art. has: 82 equations and 5 figures.

SUB CODE: 13,12/ SUBM DATE: none/ ORIG REF: 010/ OTH REF: 003

Card 3/3 vmb

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

AP0006398 (A) SOURCE CODE: UR/0374/66/000/001/0011/0019

AUTHOR: Bolotin, V. V.

ORG: Moscow Order of Lenin Power Engineering Institute (Moskovskiy ordena Lenina energeticheskiy institut) 56 B

TITLE: Theory of an elastic medium reinforced with layers with initial random imperfections

SOURCE: Mekhanika polimerov, no. 1, 1966, 11-19

TOPIC TAGS: layer theory, complex function, random process, mechanical stress, elastic modulus, fiberglass, reinforced plastic

ABSTRACT: An elastic medium reinforced with slightly curved elastic layers was investigated. A method suggested in papers (V. V. Bolotin, Izv. AN SSSR, OTN, Mekh. i mashinostr., 1964, 1, and V. V. Bolotin, Mekh. polim., 1965, 2, 27) is used for the evaluation of the basic equations. It is assumed that functions describing the initial imperfections are stationary random ergodic functions of the coordinates. Using the method of canonical expansions (Pugachev, V. S., Teoriya sluchaynykh funktsiy i yeye primeneniye k zadacham avtomaticheskogo upravleniy, Fizmatgiz, 1960) the formulas for statistical characteristics of the stresses, strains, and displacements are derived. The theory is applied for explaining the well-known test of lowering the elasticity moduli of laminated fiberglass reinforced plastics as

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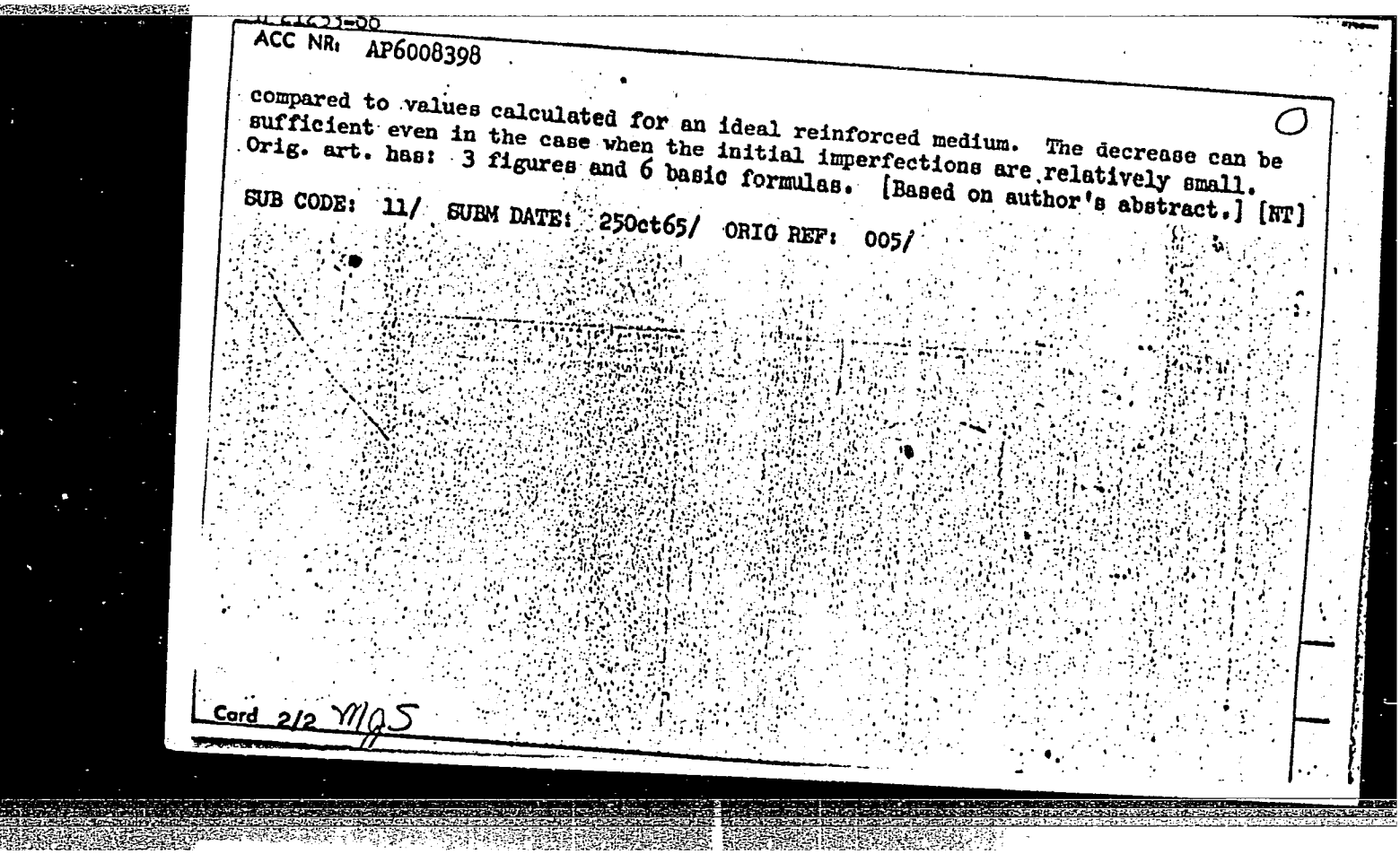

ACC NR: AP6008398

compared to values calculated for an ideal reinforced medium. The decrease can be sufficient even in the case when the initial imperfections are relatively small. Orig. art. has: 3 figures and 6 basic formulas. [Based on author's abstract.] [NT]

SUB CODE: 11/ SUBM DATE: 25Oct65/ ORIG REF: 005/

Card 2/2 MLS

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

Acc. Nr: AM5004541

Monograph UR/

Bolotin, Vladimir Vasil'yevich (Professor; Doctor of Technical Sciences)

Statistical methods in structural mechanics (Statisticheskiye metody v stroitel'noy mekhanike) 2d ed., rev. and enl. Moscow, Stroyizdat, 65. 0278 p. illus., biblio. 6,500 copies printed.

TOPIC TAGS: probability theory, material fracture, solid mechanical property, structure vibration, mechanical vibration, structure stability, elasticity, elastic oscillation, earthquake

PURPOSE AND COVERAGE: The book systematically presents problems of applying the probability theory and mathematical statistics to various problems of the mechanics of materials and structures. Besides the traditional problems, the book examines a number of new problems in conjunction with calculations of the durability of structural designs in machinery manufacture, aviation, and other fields of modern engineering. In particular the book devotes much attention to the problem of vibrations and stability of elastic systems in the presence of accidental disturbances and the problem of accumulated impairments in the structures. An effective solution to these problems can be obtained only in using statistical methods. The book is intended for engineers-designers, scientific workers, aspirants and students of advanced courses, specializing in the field of construction, machinery manufacture and also other fields demanding fuller knowledge on problems of material and structure durability.

Card 1/2 UDC: 624.04

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

Foreword --3
Introduction --5
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Ch. II. Statistical methods of substantiating norm calculations -42
Ch. III. Statistical theory of damage --68
Ch. IV. Use of statistical methods in problems of stability --102
Ch. V. Vibration of structure under accidental forces --134
Ch. VI. Accumulation of impairments and evaluation of reliability under accidental loads 189
Ch. VII. Statistical methods in the theory of earthquakerproofness --265
Bibliography --267

SUB CODE: 20,12,13 / SUBM DATE: 27Jan65/ ORIG REF: 119/ OTH REF: 092

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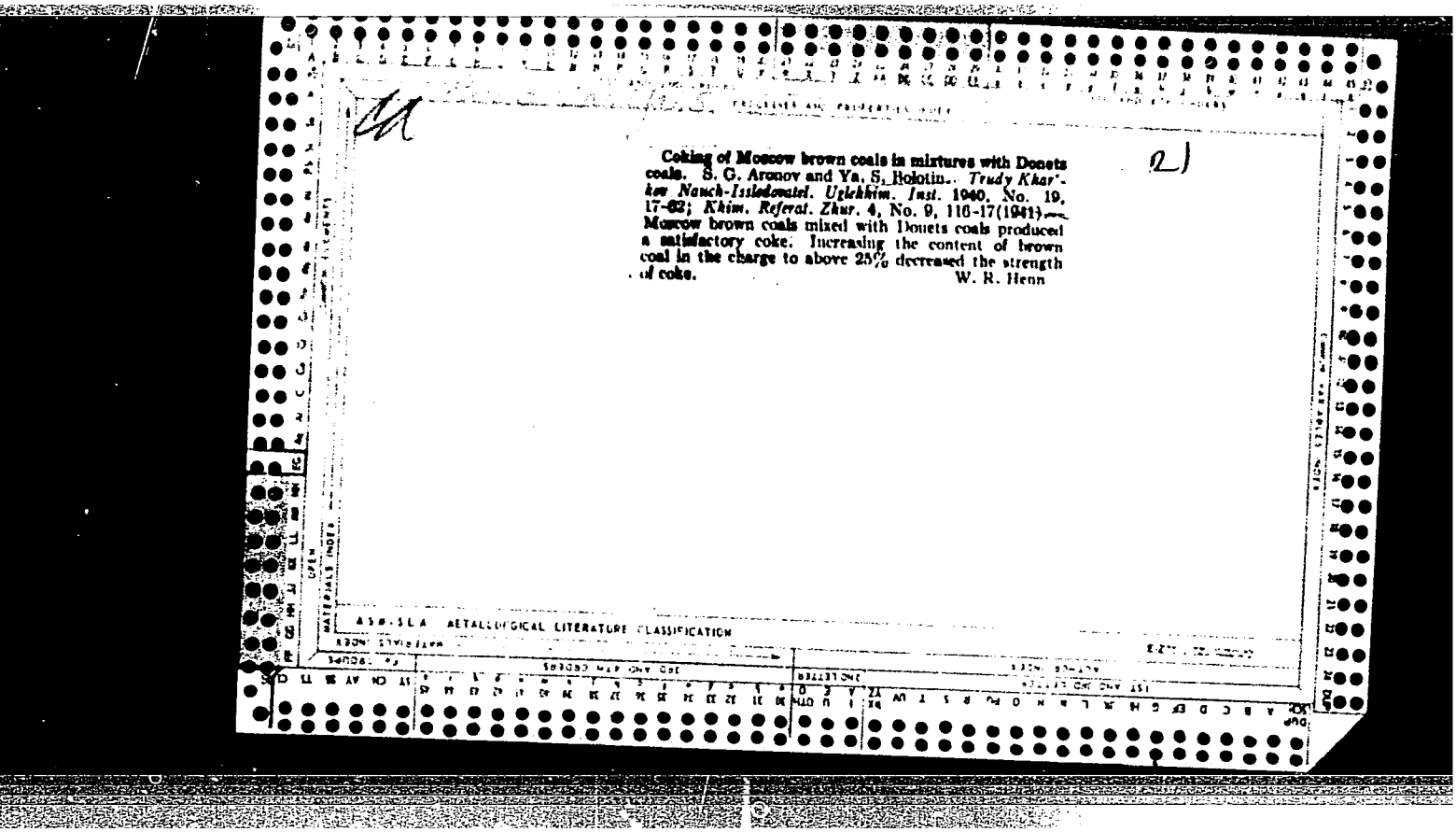

Coking of Moscow brown coals in mixtures with Donets coals. S. G. Aronov and Ya. S. Bolotin. *Trudy Khar'kov Nauch-Issledovatel. Uglekhim. Inst.* 1940, No. 19, 17-62; *Khim. Referat. Zhur.* 4, No. 9, 116-17(1941).—Moscow brown coals mixed with Donets coals produced a satisfactory coke. Increasing the content of brown coal in the charge to above 25% decreased the strength of coke.

W. R. Henn

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

AUTHORS: Bolotin, Ya.S. and Belousov, S.P. SOV/68-59-4-17/23

TITLE: On the Operation of Combustion Chambers on the Khanzhenkovo Coking Works (O rabote kamer dozhiganiya na Khanzhenkovskom koksokhimicheskom zavode)

PERIODICAL: Koks i Khimiya, 1959, Nr 4, pp 56-60 (USSR)

ABSTRACT: On the above works the carbonisation of pitch is carried out without collection of the volatile products which were let into the atmosphere causing excessive air pollution. As a preventative measure special combustion chambers were built on the path of the waste gas from the main flue to the stack of the battery. The design and operation of these combustion chambers is designed and illustrated (fig 1 to 4). The distribution of temperatures and draught along the path of waste gases is given in tables 1 and 2 respectively. The above measure considerably decreased the atmospheric pollution and is recommended for other works operating

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On the Operation of Combustion Chambers on the Khanzhenkovsk Coking Works

SOV/68-59-4-17/23

without the collection of volatile carbonisation products. There are 4 figures and 2 tables.

ASSOCIATION: Teplotekhstantsiya; and Khanzhenkovskiy Koksokhimicheskiy Zavod (Khanzhenkovo Coking Works)

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, Ya.S.

Brick lining of coke-oven doors. Koks i khim. no.1:37 '60. (MIRA 13:6)

1. Teplotekhstantsiya, Kaliningrad.
(Kaliningrad--Coke ovens)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, Ya.S.; NADGOL'NYY, V.F.

Rapid firing of wide-chamber, small size Dinas brick coke ovens. Koks i khim. no.2:31-33 '60. (MIRA 13:5)

1. Koksokhimstantsiya.
(Kaliningrad--Coke ovens)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, Ya.S.; NADGOL'NYY, V.F.

Methods for determining the air flow sections of gas and air valves. Koks i khim. no.5:29-31 '60. (MIRA 13:7)

1. Koksokhimstantsiya.
(Coke ovens)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, Ya.S.; LITMANOVICH, I.M.; ZAKHARCHENKO, A.P.; ROMANENKO, V.P.

Modernization of coal drying systems at the Yasinovka Coke and Coal Chemicals Plant. Koks i khim. no.11:14-17 '63. (MIRA 16:12)

1. Koksokhimstantsiya (for Bolotin). 2. Yasinovskiy koksokhimicheskiy zavod (for Litmanovich, Zakharchenko, Romanenko).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, Ye.

"Permanent Aerial Photographic Bases are Needed by Aeroflot," by Engineer Ye. Bolotin, Grazhdanskaya Aviatsiya, No 4, Apr 55, p 36

Citing the importance of aerial photography to geologists, land managers, geodesists, and topographers, the author sets forth the desirability and importance, in the continuation and perfection of this work, of permanent bases. In conjunction with the plans of the Ministries of Geology and Mineral Conservation, of the Timber and Paper Industry, of the Petroleum Industry, and others, permanent bases would be established within a radius of 300-400 km of cities having facilities to handle heavy air transports.

The economies to be gained by such an organized network of bases are set forth.

The ever-increasing demands for high-quality large scale photographic aerial prints are also cited.

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APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, Ye.

Unsystematic working methods in the meteorological service for aerial photographic subdivisions. Grazh.av.13 no.3:35 Mr '56. (Meteorology in aeronautics) (MLRA 9:7)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTIN, Yu.A.; DEVYATOV, I.Kh.

Air drilling. Razved. i okh. nedr 29 no.11:49-51 N '63.
(MIRA 17:12)

1. Bashkirskoye geologicheskoye upravleniye.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

ACCESSION NR: AP4031154 S/0056/64/046/004/1331/1334

AUTHORS: Akhiyezer, I. A.; Bolotin, Yu. L.

TITLE: On the theory of interactions between charged particles and a nonequilibrium plasma

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1331-1334

TOPIC TAGS: plasma stability, charged particle, plasma oscillation, correlation technique

ABSTRACT: In view of the possibility of anomalously large fluctuations arising in an almost unstable nonequilibrium plasma, which can lead to an anomalously large cross section for the scattering of light in such a plasma and to anomalously large coefficients for the scattering of longitudinal waves and conversion of such waves into transverse waves, the authors investigate the interaction between charge particles in a nonequilibrium plasma consisting of hot elec-

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trons moving with respect to cold ions. The analysis is confined to linear theory and no attempt is made to find any limitation on the growth of the critical fluctuations or to determine their ultimate amplitude. The energy lost by a particle interacting with the plasma traversed by a compensated beam of charge particles is also considered. A difference is found to exist in the structure of the expressions for the particle energy loss due to excitation of Langmuir oscillations when $\theta_0 \sim 1$ and $\theta_0 \ll 1$ (θ_0 is the angle between the particle and beam velocities) is explained. It is shown that the particle loss due to the excitation of plasma oscillations become anomalously large as the plasma approaches an unstable state. "In conclusion we wish to thank A. I. Akhiyezer, A. A. Vedenov, and K. N. Stepanov for valuable discussions." Orig. art. has: 10 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR (Physicotechnical Institute, Academy of Sciences UkrSSR)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

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ACCESSION NR: AP4031154

SUBMITTED: 16Sep63	DATE ACQ: 07May64	ENCL: 00
SUB CODE: ME, EM	NR REF SOV: 003	OTHER: 002

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTINA, A.

Bolotina, A. - "On the clinical treatment and therapy of peptic ulcers of the mouth region", Sbornik rabot Studench. nauch. o-va Khar'k. med. in-ta, No. 8, 1949, p. 76-82.

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTINA, A.

Bolotina, A. - "A case of chloroleukemia ", Sbornik rabot Studench. nauch. o-va Khar'k. med. in-ta, No. 8, 1949, p. 113-17.

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

EPSHTEYN, Ye.G.; BOLOTINA, A.A.; RASKIN, A.Ya.; KUDRYASHEVA, Ts.G.

Vernal anti-recurrent treatment of tertian malaria with acrichine. Sovet. med. no.5:19-21 May 1951. (CLML 20:9)

1. Of the Institute of Malaria, Medical Parasitology, and Helminthology (Director--Prof. P.G. Sergiyev).

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTINA, A. L.

"The Problem of Penicillin Therapy in Pneumonia of Young Children." Cand Med Sci, Khar'kov Medical Inst, Khar'kov, 1954. (RZhBiol, No 8, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

GITTIK, L.S., kand.med.nauk; BOLOTINA, A.L., kand.med.nauk

General clinical characteristics of cerebral rheumatism.
Vop.revm. 1 no.3:79-86 Jl-S '61. (MIRA 16:4)

1. Iz nevrologicheskogo otdeleniya (zav. - kand.med.nauk L.S. Gittik) Volynskoy oblastnoy bol'nitsy (glavnyy vrach A.N. Krayzman) i Volynskogo oblastnogo otdela zdravookhraneniya (zav. P.I.Levashko).
(RHEUMATIC FEVER) (BRAIN--DISEASES)

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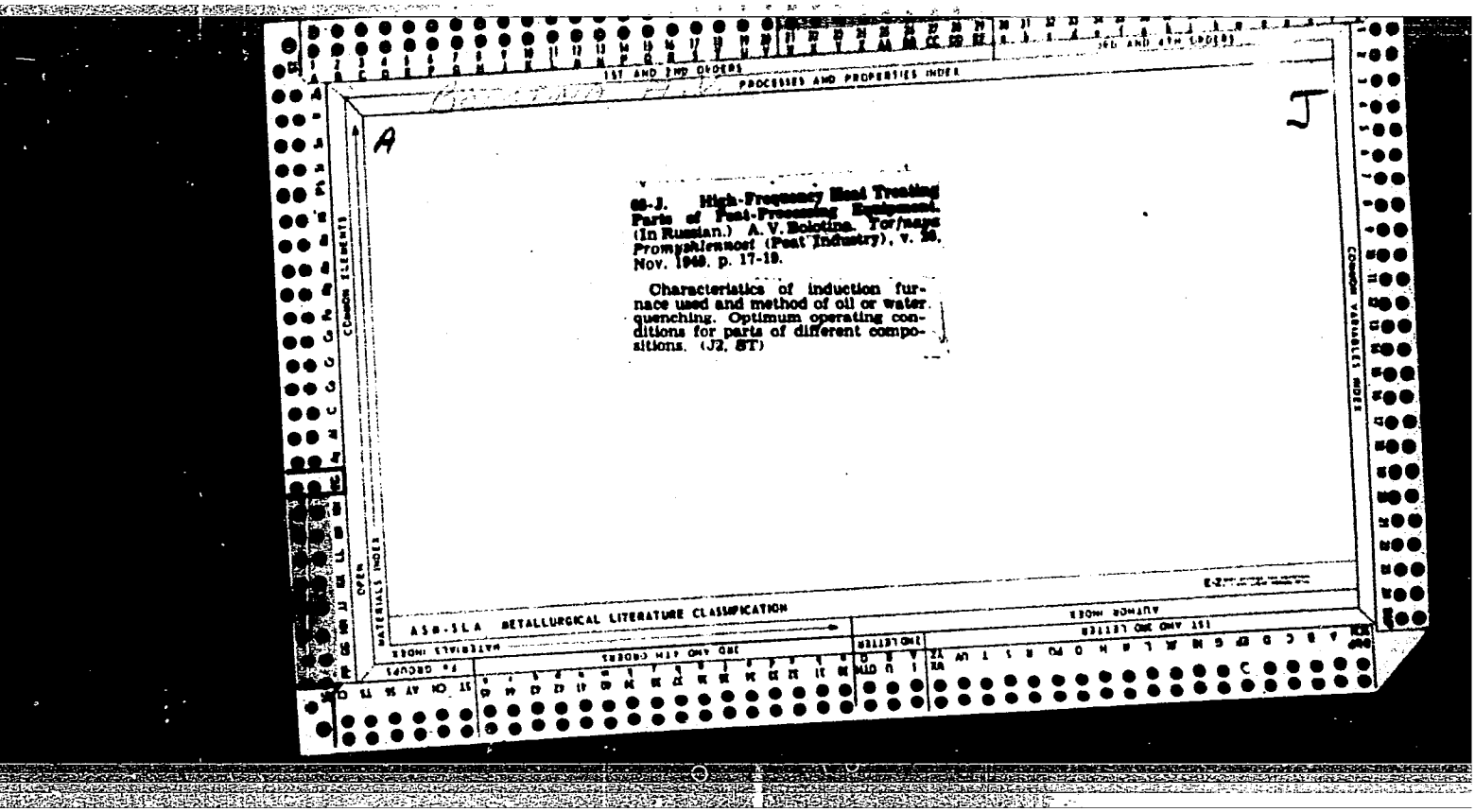

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BROUDE, Zinoviy Il'ich; LYAPIN, Aleksey Grigor'yevich; TOPILIN, Nikolay Vasil'yevich; BOLOTINA, A.V., red.

[Structures made of aluminum alloys; reference materials] Konstrukteli iz aluminiovykh splavov; spravochnye materialy. Moskva, Stroiizdat, 1964. 193 p.

(MIRA 17:12)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

ZABOROV, V.I.; KLYACHKO, L.N.; ROSIN, G.S.; BOLOTINA, A.V., red.

[Noise control by sound insulation] Bor'ba s shumom metodami zvukoizoliatsii. Moskva, Izd-vo lit-ry po stroit., 1964. 121 p. (MIRA 17:5)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

STAROVEROVA, A.G.; BOLOTINA, A.V.; MILOVANOVA, V.I.; EL'BERG, S.I.

Effect of nonspecific activity of folic acid on the state of immunity against diphtheria. Zhur.mikrobiol.epid.i immun. 30 no.10:28-32 O '59. (MIRA 13:2)

1. Iz Moskovskogo instituta epidemiologii, mikrobiologii i gigiyeny i Detskoy ob"yedinennoy bol'nitsy No.12.
(DIPHTHERIA immunol.)
(FOLIC ACID ther.)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

VAKHURKIN, V.M.; GLADSHTEYN, L.I.; KARMILOV, S.S.; KLIMOV, S.A.; LEVITANSKIY, I.V.; MALININ, B.N.; NOSOV, A.K.; PAL'M, Yu.A.; POLYAK, V.S.; POPOV, G.D.; RASSUDOV, V.M.; KRASYUKOV, V.P.; SOKOLOV, A.G.; Prinimali uchastiye: GORBATSKIY, Ye.I.; MATVEYEV, S.S.; STRELETSKIY, N.S., prof., retsenzent; MUKHANOV, K.K., dots., retsenzent; BOLOTINA, A.V., red.; MIKHEYEVA, A.A., tekhn. red.

[Light-weight supporting metal structures] Oblegchennye nesushchie metallicheskie konstruktsii. Moskva, Gosstroiizdat, 1963. 282 p. (MIRA 17:2)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

KORNEV, N.A., kand.tekhn.nauk,red.; BOLOTINA, A.V.,red.; KASIMOV, D.Ya., tekhn. red.

[Large-panel elements of lightweight concrete for buildings] Krupnopanel'nye konstruktsii zdanii iz legkikh betonov. Pod red. N.A.Korneva. Moskva, Stroiizdat, 1964. 144 p. (MIRA 17:3)

1. Moscow. Nauchno-issledovatel'skiy institut betona i zhelezobetona.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

NIKOLAYENKO, N.A., kand. tekhn. nauk, dots.; BOLOTINA, A.V., red.; KASIMOV, D.Ya., tekhn. red.

[Dynamics and seismic stability of structures supporting tanks] Dinamika i seismostoikost' konstruktsii nesushchikh rezervuary; posobie dlia rascheta. Moskva, Gosstroiizdat, 1963. 155 p. (MIRA 16:8)
(Tanks--Plastic properties)
(Earthquakes and buildings)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

POLYAKOV, S.V., doktor tekhn. nauk, prof., red.; BOLOTINA, A.V., red.; RODIONOVA, V.M., tekhn. red.

[Seismic stability of precast large-panel buildings] Seismostoikost' sbornykh krupnoelementnykh zdanii. Pod obshchei red. S.V.Poliakova. Moskva, Gosstroiizdat, 1963. 205 p. (MIRA 16:11)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut stroitel'nykh konstruktsii.
(Precast concrete construction)
(Earthquakes and building)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

OSTRETSOV, Valeriy Mitrofanovich; BRILING, Yevgeniy Romanovich; LEVONTIN, N.B., inzh., nauchn. red.; ZUBKOVA, M.S., red.; BOLOTINA, A.V., red.

[Examples of calculations of elements for large-panel apartment houses] Primery rascheta konstruktsii sovremennykh krupnopanel'nykh zhilykh zdanii. Moskva, Stroiizdat, 1964. 191 p. (MIRA 17:7)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

YUDIN, Ye.Ya., doktor tekhn. nauk, prof., red.; KOVRIGIN, S.D., kand. tekhn. nauk, nauchn. red.; BOLOTINA, A.V., red.; ZUBKOVA, M.S., red.

[Noise control] Bor'ba s shumom. Moskva, Stroiizdat, 1964. 700 p. (MIRA 17:7)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTINA, A.Ye.

Some factors determining the effectiveness of seasonal preventive bicillin theraphy in recurrences of rheumatic fever. Sov. med. 28 no.9:21-25 S '65. (MIRA 18:9)

1. Institut revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I.Nesterov) AMN SSSR, Moskva.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTINA, A.Yu.; GALACH'YANTS, O.P., kand.med.nauk; BORODIYUK, N.A., kand. med.nauk

Immediate results of bicillin prevention of rheumatic fever exacerbations. Sov.med. 23 no.12:94-99 D '59. (MIRA 13:4)

1. Iz 1-y kafedry terapii (zaveduyushchiy - deystvitel'nyy chlen AMN SSSR prof. M.S. Vovsi) TSentral'nogo instituta usovershenstvovaniya vrachey, bol'nitsy No.52 (glavnyy vrach P.S. Petrushko) i laboratorii streptokokkovykh infektsiy Instituta epidemiologii i mikrobiologii imeni N.F. Gamalei (direktor - deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I. Lenina (VASKhNIL) (prof. S.N. Muromtsev).
(PENICILLIN rel.cpds.)
(RHEUMATIC FEVER ther.)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

LYAMPERT, I.M.; BORODIYUK, N.A.; AGABABOVA, E.R.; SHCHEGLOVA, A.S.; BOLOTINA, A.Yu.; YARESHKO, N.T.

Streptococcal antigens in patients with rheumatic fever at various stages of the disease. Zhur.mikrobiol., epid. i immun. 32 no.10: 58-64 O '61. (MIRA 14:10)

1. Iz Instituta epidemiologii i mikrobiologii im. Gamalei AMN SSSR, I Moskovskogo ordena Lenina meditsinskogo instituta im. I.M.Sechenova i Revmatologicheskogo kabineta Leningradskogo rayona, Moskva.
(RHEUMATIC FEVER) (STREPTOCOCCAL INFECTIONS)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

LYAMPERT, I.M.; GALACH'YANTS, O.P.; AGABABOVA, E.R.; RAL'F, N.M.; SMIRNOVA, M.N.; YARESHKO, N.T.; BOLOTINA, A.Yu.; SOSHKINA, N.M.

Diagnostic significance of certain immune reactions in rheumatic fever. Zhur.mikrobiol.epid.i immun. 32 no.3:35-43 Mr '61. (MIRA 14:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR, fakul'tetskoy terapevticheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova i revmatologicheskogo kabineta Leningradskogo rayona Moskvy.

(RHEUMATIC FEVER) (ANTIHEMOLYSINS)
(HYALURONIDASE)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

LEYTES, B.G., prof.; BOLOTINA, A. Yu.

Out-of-town ten-day courses as a form of improvement of the qualifications of rheumatologists. Vop. revm. 2 no.2:78-79 Ap-Je'62 (MIRA 17:3)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BORODIYUK, N.A.; GALAGUZANTS, O.P.; SMIRNOVA, M.N.; BOLOTINA, A.Yu.

Determination of streptococcal antigens in the blood of patients with rheumatic fever during the interparoxysmal period by the complement fixation reaction with rabbit antistreptococcal serum. Vop. revm. 3 no.4:8-14 O-D '63. (MIRA 17:2)

1. Iz otdela streptokokkovykh infektsiy (za. -- doktor med. nauk I.M. Lyampert) Instituta epidemiologii i mikrobiologii imeni N. F. Gamalei (dir. -- prof. A.P. Vershilova) AMN SSSR i revmaticheskogo kabineta Leningradskogo rayona Moskvy (nauchnyy rukovoditel' - prof. M.S. Vovsi [deceased]).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

SVERDLOV, L. M.; BOLOTINA, E. N.

Calculation of the thermodynamic functions of gaseous 1,3-butadiene from spectroscopic data. Zhur. fiz. khim. 36 no.12: 2765-2767 D '62. (MIRA 16:1)

1. Saratovskiy politekhnicheskiy institut.

(Butadiene—Thermodynamic properties)
(Spectrum analysis)

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L 49780-65 EPF(c)/EPR/EWP(j)/EWA(c)/EWT(1)/EWT(m) Pc-4/Pr-4/Ps-4
IJP(c)/RPL WW/RM

ACCESSION NR: AR5012234 UR/0058/65/000/003/D015/D015

SOURCE: Ref. zh. Fizika, Abs. 3D100

AUTHORS: Bolotina, E. N.; Kapshtal', V. N.; Kraynov, Ye. P.; Klochkovskiy, Yu. V.; Kikina, V. S.; Sverdlov, L. M.

TITLE: Calculation and interpretation of vibrational spectra of molecules of various classes

CITED SOURCE: Tr. Komis. po spektroskopii. AN SSSR, vyp. 1, 1964, 120-124

TOPIC TAGS: vibrational spectrum, organic molecule, isotopic substitute, force field, double bond

TRANSLATION: A calculation was made of the normal vibrations, and a complete interpretation is presented for the vibrational spectra of 25 molecules: cyclobutane, spiropentane, thiphane, cis-trans-dimethyldiborane, trimethylborane, C_2F_4, C_2Cl_4, C_2Br_4, Fe_2C-CHF, ClFC-CH_2, F_2C-CHCl, cis-trans-$C_2H_2F_2$, cis-trans-$C_2H_2Br_2$, and certain isotopic substitutes. The features of the force field of these mole-

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ACCESSION NR: AR5012234 O

cules are clarified. In particular, the strength of the C=C double bond increases upon successive substitution of the H atoms in ethylene by F atoms.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTINA, F.Ye.; GAMBARYAN, Kh.P.; DENISOVA, G.A.; DUBROVINA, L.I.; KOZHINA, I.S.; KYURKCHAN, V.N.; MAKAROVA, T.I.; PAVLOVA, U.G.; REZVETSOV, O.A.; SMIRNOVA, V.V.; SURZHIN, S.N., kand. tekhn. nauk; TAMAMSHYAN, S.G.; TRUSOVA, S.A.; FILOGRIYEVSKAYA, Z.D.; CHINENOVA, E.G.; SHISHKINA, N.N.; IL'IN, M.M., zasl. deyatel' nauki RSFSR, doktor biol. nauk prof., red.; PRITYKINA, L.A., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Spice and aromatic plants of the U.S.S.R. and their use in the food industry] Priano-aromaticheskie rasteniia SSSR i ikh ispol'zovanie v pishchevoi promyshlennosti. Moskva, Pishchepromizdat, 1963. 430 p. (MIRA 17:2)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

USSR, Chemical Technology. Chemical Products and Their Application--Water treatment. Sewage water I-12

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 9144

Author : Trusova, S. A., Bolotina, F. Ye., and Potapova, A.A.
Inst : Not given
Title : On the Composition of Water Softened by Cation Exchange for Utilization in Vodka Production

Orig Pub: Spirt. prom-st, 1955, No 4, 17-18

Abstract: Experimental data on the effect of the alkalinity of water on the permissible concentration of Ca^{2+} in alcohol-water solution of strength 40, 50, and 56% permit a rational selection of a treatment scheme to be applied to the water used in vodka production depending on the quality of the untreated water. For water of alkalinity < 5.0 and total hardness < 15 me/liter, the use of the Na cycle is recommended; for water of alkalinity > 5.0

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USSR, Chemical Technology. Chemical Products and Their Application--Water treatment. Sewage water

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 9144

Abstract: me/liter, mixed H-Na cation exchange or lime-soda softening followed by Na cation exchange are recommended.

Card 2/2

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

TRUSOVA, S.A.; FAYERSHTERN, Ya.D.; BOLOTINA, F.Ye.

Improvement of a standard technological system for the fruit liqueur industry. Trudy TSNIISP no.7:130-135 '59. (MIRA 13:9)
(Liquor industry)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

110-58-6-13/22

AUTHORS: Bolotina, G.M., Candidate of Technical Sciences, Al'tshuller, S.L., Engineer and Kubanova, V.G., Technician

TITLE: High-strength Enamelled Aluminium Wires (Vysokoprochnyye emalirovannyye alyuminiyevyye provoda)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, [illegible] Nr 6, pp 56 - 57 (USSR)

ABSTRACT: Aluminium wire is difficult to enamel and there is little Soviet experience in this field. Recently, Ukrkabel' has been producing enamelled aluminium wire up to 0.15 mm dia., which is being used for instrument manufacture. The enamel is Vinifleks. Also, experimental batches of wire, 1.20 dia. with this enamel have been made by Ukrkabel' and Moskabel'. This article gives the results of work carried out at Moskabel' in 1957 on enamelling aluminium wires of 0.86 - 1.50 mm dia. with Viniflex. When Isoperlon is used to enamel aluminium wire, the output is lower than with Viniflex and this enamel takes longer to apply to aluminium than to copper. Enamelled aluminium wire was made and subjected to tests, including ageing at 125 °C. The results with the wire in the initial condition are given in Table 1; the thickness and the elasticity are

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the same as on copper wire, grade PEV-1. On ageing at 125 °C, the results of which are given in Table 2, the elasticity was as good as that of PEV-1 up to 24 hrs, but was somewhat lower at 168 hrs; further ageing up to 720 hours had little effect. Experimental batches of enamelled aluminium wire of various sections are now being tested in windings manufactured under normal production conditions. There are 2 tables.

ASSOCIATION: Zavod "Moskabel'" ("Moskabel'" Works)

SUBMITTED: September 27, 1957

Card 2/2 1. Aluminum wire--Coating 2. Enamel coatings--Test results

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Optical activity and vitrification. N. M. Bazhenov, M. V. Vol'kenshtein, and I. A. Kolotina. *Zhur. Tekh. Fiz.* 25, 1861-3(1955).—In measurements of colophony an abrupt change in optical properties sets in near 24°. Measurements were made at 546 mμ from 8 to 40° in intervals of 0.1°. Over this interval n drops from about 1.550 to about 1.544, with indication of a break in the curve n vs. T at 24°, yet this is per se not the reason for the abrupt change in the φ-T curve at 24° (φ = angle of rotation), which marks the transition from the liquid to the glassy state. The true reasons are revealed by examn. of the terms of the Lorentz-Lorenz equation: $(1/\varphi)(d\varphi/dT) = [1+[(n^2-1)(n^2-2)/6n^2]][(1/\rho)(d\rho/dT)] + (1/g)(dg/dT)$, where ρ is the d. The 1st term remains almost const. at 0.04 over the temp. interval indicated; but the other 2 terms, if plotted vs. T, show a discontinuity of the curves. Both curves consist of 2 separate branches, and the point of discontinuity is near 24°.

Werner Jacobson

CH

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTINA, I.A., Cand Phys Math Sci -- (diss) "Optical activity and vitrification." Len, 1959, 16 pp (Acad Sci USSR. Inst of [illegible] Molecular Compounds) 150 copies (KL, 28-59, 122)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

VAZINA, A.A.; BOLOTINA, I.A.; VOL'KENSHTEYN, M.V.; LYASOTSKAYA, I.; FRANK, G.M.

Configuration of a polypeptide chain in G- and F-actin. Biofizika 10 no.4:567-570 '65. (MIRA 18:8)

1. Institut biologicheskoy fiziki AN SSSR, Moskva, i Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad.

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BULOTINA, I.A.; BAZHENOV, N.M.; VOL'KENSHTEYN, M.V.; SOGOMONYANTS, Zh.S.

Effect of the vitrification of polymers on their optical activity.
Fiz. tver. tela 1 no.3:489-498 Mr '59. (MIRA 12:5)

1. Institut vysokomolekulyarnykh soyedineniy, Leningrad.
(Polymers--Optical properties)

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BOLOTINA, I. N.

BOOK I PUBLICATION SOV/1925

Vsesoyuznoye soveshchaniye po steklovideniyu. M., Leningrad, 1959.

Steklovidnoye sostoyaniye; trudy Tretyego vsesoyuznogo soveshchaniya Leningrad, 16-20 noyabrya 1959 (Vitreous State; Transactions of the Third All-Union Conference on the Vitreous State, Held in Leningrad November 16-20, 1959) Moscow, Izd-vo AN SSSR, 1960. 534 p. Errata slip inserted. 3,500 copies printed. (Series: Its: Trudy)

Sponsoring Agencies: Institut khimii silikatov Akademii nauk SSSR. Vsesoyuznoye Khimicheskoye obshchestvo imeni D.I. Mendeleyeva and Gosudarstvennyy ordena Lenina opticheskiy institut imeni S.I. Vavilova.

Editorial Board: A.I. Avgustinik, V.P. Berezkovskiy, M.A. Bezborodov, O.K. Botvinkin, V.V.Vargin, A.G. Vlasov, K.S. Yevstropyev, A.A. Lebedev, N.A. Matveyev, V.S. Molchanov, R.L. Myuller, Ye.A. Porai-Koshits, Chairman, N.A. Toropov, V.A. Florinskaya, A.K. Yakhkind; Ed. of Publishing House: I.V. Suvorov; Tech. Ed.: V.T. Bochever.

PURPOSE: This book is intended for researchers in the science and technology of glasses.

COVERAGE: The book contains the reports and discussions of the Third All-Union Conference on the Vitreous State, held in Leningrad on November 16-19, 1959. They deal with the methods and results of studying the structure of glasses, the relation between the structure and properties of glasses, the nature of the chemical bond and glass structure, and the crystallochemistry of glass. Fused silica, mechanism of vitrification, optical properties and glass structure, and the electrical properties of glasses are also discussed. A number of the reports deal with the dependence of glass properties on composition, the tinting of glasses and radiation effects, and technical, technical, and chemical properties of glasses. Other papers treat glass semiconductors and soda borosilicate glasses. The Conference was attended by more than 500 delegates from Soviet and East German scientific organizations. Among the participants in the discussions were N.V. Solomin, Ye. V. Kuvshinskiy, Yu.A. Gastev, V.P. Pryanichnikov, Yu. Ya. Gotlib, O.P. Mchedlov-Petrosyan, G.P. Mikhaylov, S.M. Petrov, A.N. Lazarev, D.I. Levin, A.V. Shatilov, M.T. Ploshchinskiy, A.Ya. Kunetsov, E.V. Degtyarevm, G.V. Kuznetsova, A.A. Kalnov, M.M. Skoropakov, P.Ye. Botin, E.K. Keller, Ya.A. Eyngornovskaya, V.P. Pozdnev, R.S. Shevelevich, Z.G. Pinsker, and O.S. Molchanova. The final session of the Conference was addressed by Professor I.I. Kitaygorodskiy, Honored Scientist and Engineer, Doctor of Technical Sciences. The following institutes were cited for their contribution to the development of glass science and technology: Gosudarstvennyy opticheskiy institut (State Optical Institute); Institut khimii silikatov AN SSSR (Institute of Silicate Chemistry, AS USSR); Fizicheskiy institut AN SSSR (Physics Institute AS USSR), Fiziko-tekhnicheskiy institut AN SSSR (Physicotechnical Institute AS USSR), Institut fiziki AN BSSR, Minsk (Institute of Physics, Academy of Sciences, Belorusskaya SSR, Minsk), Laboratoriy of Physical Chemistry of Silicates of the Institut obshchey i neorganicheskoy khimii AN BSSR, Minsk (Institute of General and Inorganic Chemistry, Academy of Sciences, Belorusskaya SSR, Minsk), Institut vysokomolekulyarnykh soyedineniy AN SSSR(Institute of High Molecular Compounds, AS USSR), Gosudarstvennyy Institut stekla (State Institute for Glass), Gosudarstvennyy institut steklovolokna (State Institute for Glass Fibers), Gosudarstvennyy institut elektrotekhnicheskogo stekla (State Institute for Electrical Glass), Sibirskiy fiziko-tekhnicheskiy institut, Tomsk (Siberian Physicotechnical Institute, Tomsk),Leningradskiy gosudarstvennyy universitet (Leningrad State University), Moskovskiy khimiko-tekhnologicheskiy institut (Moscow Institute of Chemical Technology),Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Technological Institut imeni Lensoveta), Belorusskiy politekhnicheskiy institut Minsk (Belorussian Polytechnic Institute, Minsk), Novocherkasskiy politekhnicheskiy institut (Novocherkassk Polytechnic Institute), and Sverdlovskiy politekhnicheskiy institut (Sverdlovsk Polytechnic Institute). The Conference was sponsored by the Institute of Silicate Chemistry AS USSR (Acting Director - A.S. Gollib), the Vsesoyuznoye khimicheskoye obshchestvo im. D.I. Mendeleyeva (All-Union Chemical Society imeni D.I. Mendeleyev), and the Gosudarstvennyy ordena Lenina opticheskiy institut imeni S.I. Vavilova (State Order of Lenin Optical Institute imeni S.I. Vavilov). The 35 resolutions of the Conference include recommendations to organize a Center for the Purpose of coordinating the research on glass, to publish a new periodical under the title "Fizika i khimiya stekla" (Physics and Chemistry of Glass), and to join the International Committee on Glass. The Conference thanks A.A. Lebedev, Academician, Professor, and Chairman of the Organization Committee; Ye.A. Porai-Koshits, Doctor of Physics and Mathematics, Member of the Organizational Committee; and R.L. Myuller, Doctor of Chemical Sciences, Member of the Organizational Committee. The editorial board thanks G.M. Bartenev, M.V. Volkenshteyn, L.I. Demkina, D.F. Dobychin, S.K. Dubrovo, V.A. Ioffe, and B.T. Kolomiyets. References accompany individual reports.

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SAMSONOV, G.V.; PONOMAREVA, R.B.; BOLOTINA, I.A.

Study of physicochemical characteristics of α-chymotrypsin and its B and C chains. Biofizika 10 no.3:520-522 '65.
(MIRA 18:11)

1. Institut vysokomolekulyarnykh soyedineniy, Leningrad.
Submitted Nov. 21, 1964.

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ANUFRIYEVA, Ye.V.; BOLOTINA, I.A.; VOLCHEK, B.Z.; ILLARIONOVA, N.G.; KALIKHEVICH, V.I.; KOROTKINA, O.Z.; MITIN, Yu.V.; PTITSYN, O.B.; PURKINA, A.V.; [redacted], V.Ye.

Study of synthetic polypeptides. Report No.1. Transitions-intramolecular β-strucutre-coil in poly-S-carbobenzoxymethyl-L-cysteine. Biofizika 10 no.6:918-928 '65. (MIRA 19:1)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad.
Submitted April 22, 1965.

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BOLOTINA, I.M.; RASTVOROVA, V.A.; SAKHAROVA, Ye.I.

Erosion "basins" on the Angara. Priroda 50 no.6:100-101 Je '61. (MIRA 14:5)

1. Gidroproyekt, Moskva (for Bolotina). 2. Institut fiziki Zemli imeni O.Yu.Shmidta AN SSSR, Moskva (for Rastvorova). 3. Moskovskiy gosudarstvenyy universitet imeni M.V.Lomonosova (for Sakharova).
(Angara Valley—Alluvial lands)

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BOLOTINA, I.S., redaktor; DAKHNOV, V.S., tekhnicheskiy redaktor

[Production norms for engineering plans paid on a piece work basis] Normy vyrabotki na proektnye raboty, oplachivaemye sdel'no. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture. Pt.23. [Water and sewerage systems and installation outside the house] Vneshnie seti i sooruzheniia vodoprovoda i kanalizatsii. 1954. 59 p. (MLRA 8:3)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva. (Wages) (Labor productivity) (Construction industry)

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BOLOTINA, K.S. (Moskva)

Computing flow through Lavalle nozzles taking into account viscosity and heat transfer and the transition into supersonic speed. Izv.AN SSSR.Otd.tekh.nauk no.5:3-11 My '56. (MLRA 9:8)
(Supersonic nozzles)

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BOLOTINA, K.S.

Evaluating the thickness of stationary shock waves during the flow of a viscous heat-conducting gas in pipes of variable cross section and nozzles. Nauch. dokl. vys. shkoly; energ. no.2: 157-162 '58. (MIRA 11:11)

(Shock waves)

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BOLOTINA, K.S., Cand Phy-Math Sci -- (diss) "Study of currents with friction and heat exchange in supersonic jets." Mos, 1959. 8 pp (Mos State U im M.V. Lomonosov, Physics Faculty). 150 copies (KL, 39-59,100)

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AUTHOR: Bolotina, K.S. (Moscow)

TITLE: Conditions for free convection currents in a duct of rectangular section

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Mekhanika i mashinostroyeniye, no.1, 1962, 73-76

TEXT: To determine conditions under which, in a duct filled with fluid, a transition occurs from molecular heat transfer to free gravitational convection, it is necessary to determine particular solutions of certain linear boundary problems. This article establishes general equations for a vertical duct of rectangular cross-section, generalising equations derived previously by A. Pellew and R.V. Southwell (Ref.4: On maintained convection motion in a fluid heated from below, Proc. Roy. Soc., no.176A, 1940) for the simple case of isothermal walls. The solutions are asymptotic, suitable for a wide range of boundary conditions. The analytical methods

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now employed were originally proposed by V.S. Sorokin (Ref.7: PMM, v.17, no.1, 1953). Starting with the equation for incompressible fluid, it is assumed that the function of the temperature gradient is given and it is required to find a critical value of that gradient corresponding to transition from molecular heat transfer to heat transfer by convection. An equation is derived for a vertical duct of infinite length and uniform section. This is applied to the elementary case of a rectangular channel with isothermal walls. In general, the problem does not have an exact solution, but can be solved asymptotically by means of substitutions in the form of wave equations. The solution is reduced to finding wave numbers and determining particular temperature gradients. The corresponding velocity fields and temperature fields can then be plotted. The velocity and temperature functions are obtained by adding together several functions beginning at the four walls of the duct. Curves are plotted showing the relation between wave numbers and proportions of the duct for various values of the non-dimensional coefficient of heat loss when the walls are

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insulated adiabatically and again when the walls are isothermal. A second set of curves is constructed showing the relationship between the critical Raleigh numbers and the proportions of the duct. In a practical case, in which the condition of the walls is somewhere between adiabatic and isothermal, this method will give rise to an error, the order of magnitude of which will depend on the attenuation of the exponential correction term in the wave equation. A priori, the error of this method is of the order of a few per cent.
There are 4 figures.

SUBMITTED: August 1, 1961

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Card 3/3

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DAYN, A.I., dotsent; KACHEROVA, B.A., mladshiy nauchnyy sotrudnik; BOLOTINA, N.B., starshiy inzh.; LOGINOV, P.F., inzh.

Ways to lower the net cost of stone, crushed stone, gravel, and sand for construction. Sbor. trud. NIIZHelezobetona no.3:147-158 '60. (MIRA 15:2)
(Building stones) (Stone, Crushed) (Sand and gravel industry)

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BOLOTINA, N.D., inzh.

Survey of wholesale prices. Sbor. trud. NIIZHelezobetona no.8: 177-179 '63 (MIRA 18:1)

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BOLOTINA, Nina Grigor'yevna, doyarka; KHUDYAKOV, G.V., red.; TSYURKO, M.I., tekhn. red.

[Five thousand kilograms of milk per cow] 5000 kilogrammov moloka ot korovy. Orenburg, Orenburgskoe knizhnoeizd-vo, 1960. 10 p. (MIRA 14:9)

1. Kolkhoz "Zavety Lenina" Aleksandrovskogo rayona (for Bolotina).
(Orenburg Province—Dairying)

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BOLOTINA, N.I.

Condition of nutrients in virgin deep Chernozems. Pochvovedenie no. 7:61-72 Jl '65 (MIRA 19:1)

1. Pochvennyy institut imeni V.V. Dokuchayeva, Moskva. Submitted November 1, 1963.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

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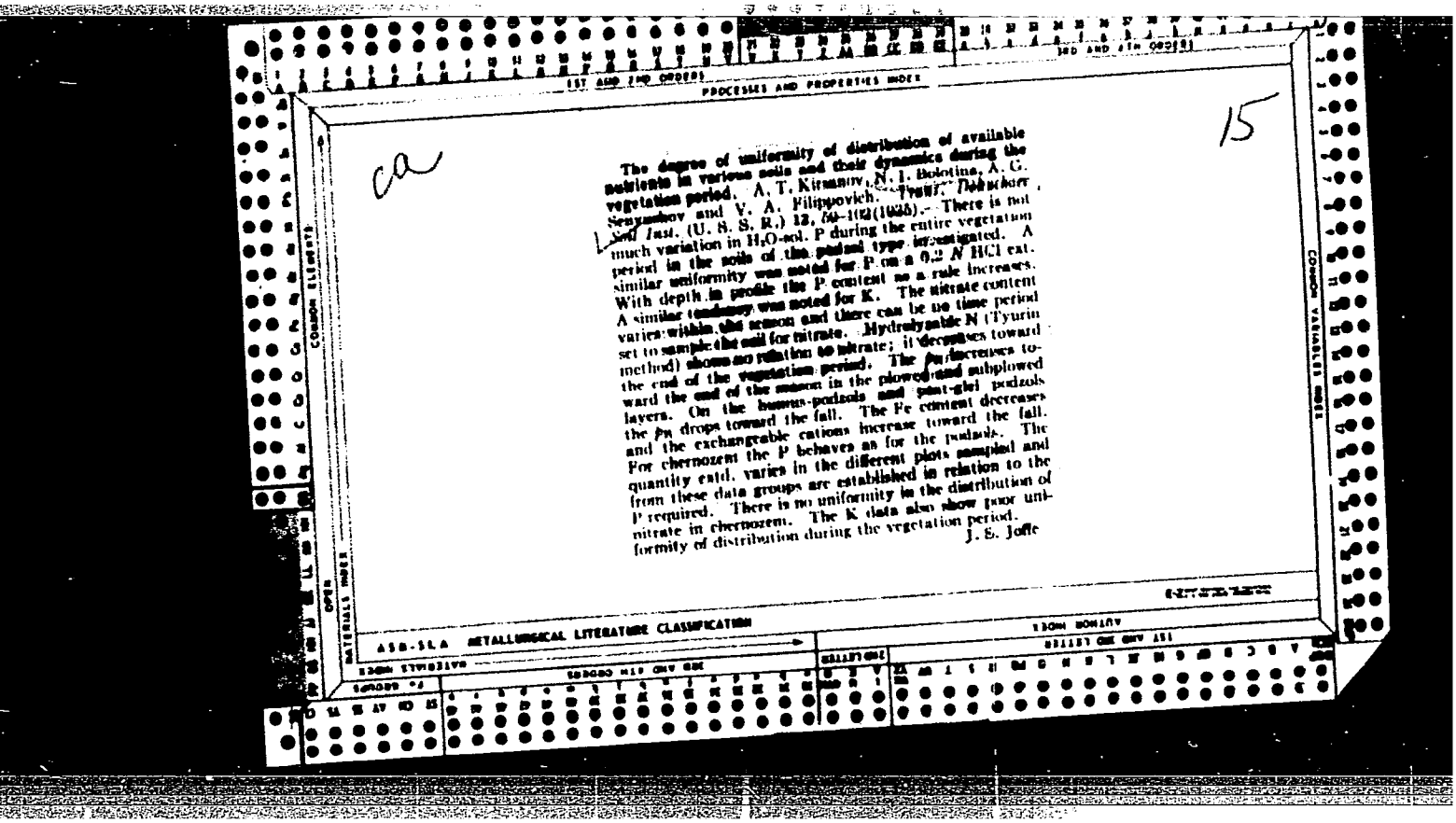

The degree of uniformity of distribution of available nutrients in various soils and their dynamics during the vegetation period. A. T. Kirsanov, N. I. Bolotina, A. G. Senyushov and V. A. Filippovich. *Trans. Dokuchaev Soil Inst.* (U. S. S. R.) 13, 59-102(1935).—There is not much variation in H_2O-sol. P during the entire vegetation period in the soils of the podzol type investigated. A similar uniformity was noted for P on a 0.2 *N* HCl ext. With depth in profile the P content as a rule increases. A similar tendency was noted for K. The nitrate content varies within the season and there can be no time period set to sample the soil for nitrate. Hydrolyzable N (Tyurin method) shows no relation to nitrate; it decreases toward the end of the vegetation period. The p_H increases toward the end of the season in the plowed and subplowed layers. On the humus-podzols and peat-glei podzols the p_H drops toward the fall. The Fe content decreases and the exchangeable cations increase toward the fall. For chernozem the P behaves as for the podzols. The quantity extd. varies in the different plots sampled and from these data groups are established in relation to the P required. There is no uniformity in the distribution of nitrate in chernozem. The K data also show poor uniformity of distribution during the vegetation period.

J. S. Joffe

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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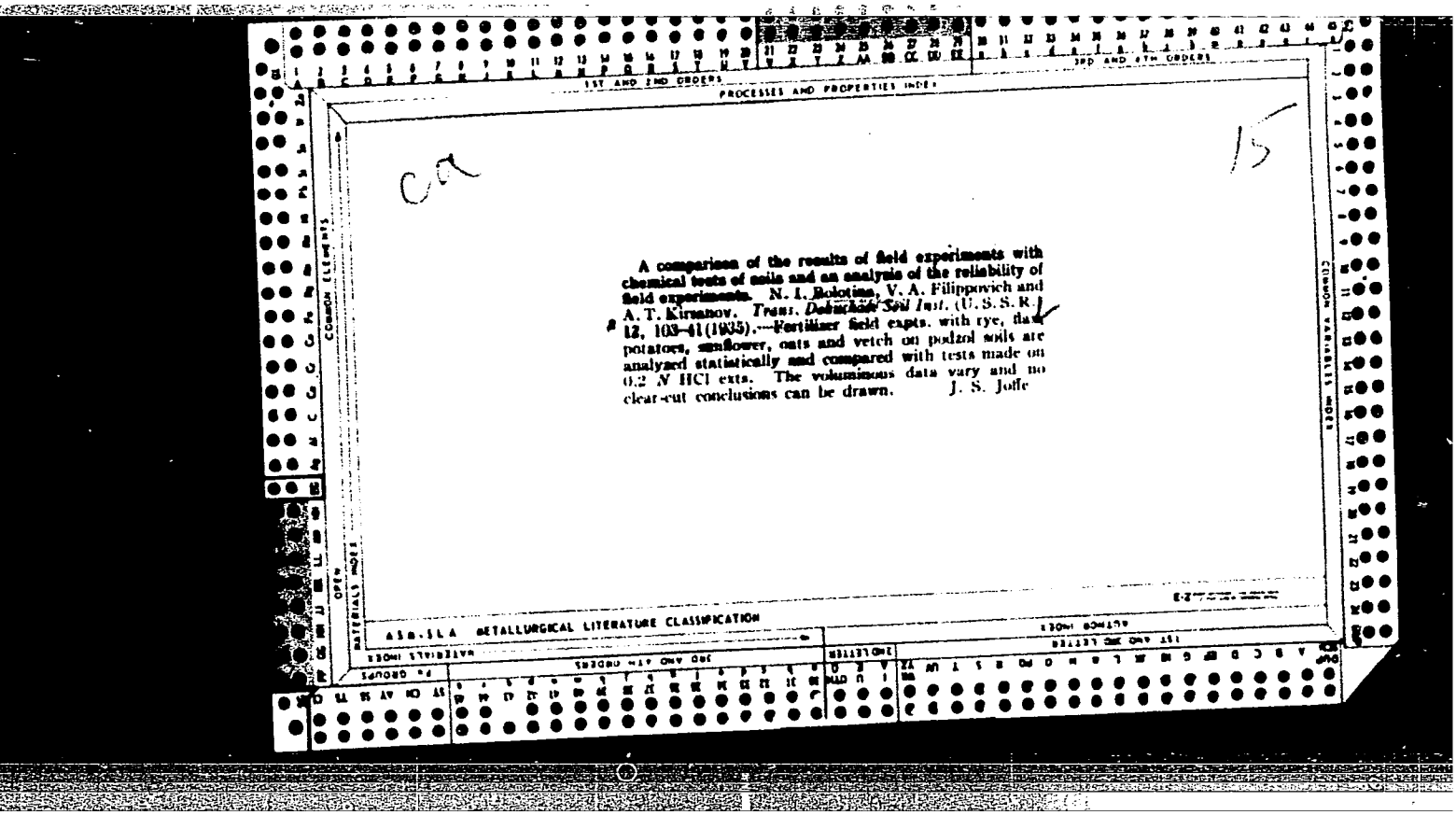

A comparison of the results of field experiments with chemical tests of soils and an analysis of the reliability of field experiments. N. I. Bolotina, V. A. Filippovich and A. T. Kirsanov. *Trans. Dokuchaev Soil Inst.* (U. S. S. R.) 12, 103–41 (1935).—Fertilizer field expts. with rye, flax, potatoes, sunflower, oats and vetch on podzol soils are analyzed statistically and compared with tests made on 0.2 *N* HCl exts. The voluminous data vary and no clear-cut conclusions can be drawn. J. S. Joffe

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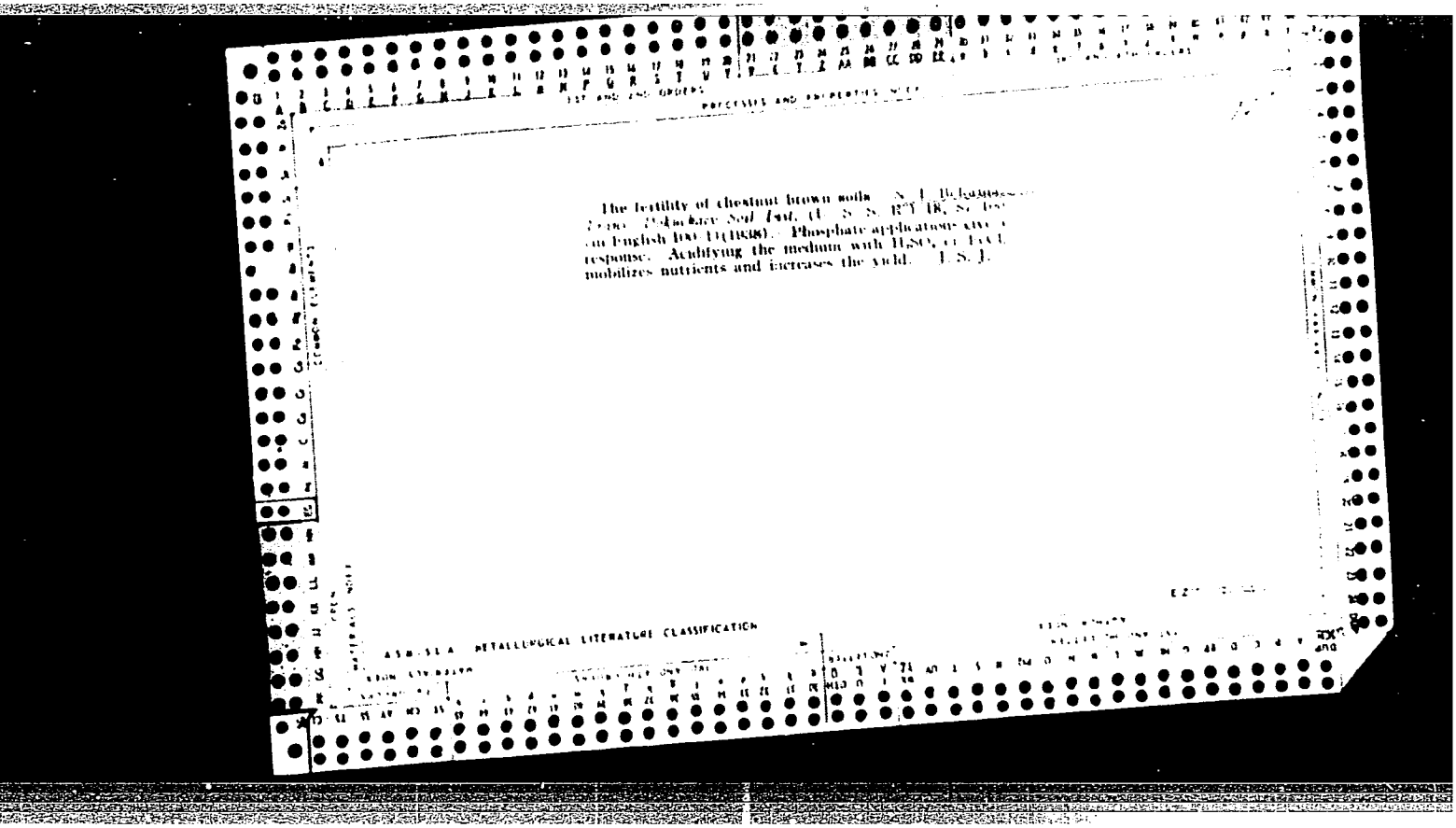
1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX



The fertility of chestnut brown soils. S. I. Bekamaz... Trans. Dokuchaev Soil Inst. (U. S. S. R.) 18, 87-... (in English 100-11(1938). Phosphate applications give ... response. Acidifying the medium with H_2SO_4 or $FeCl_3$ mobilizes nutrients and increases the yield. J. S. J.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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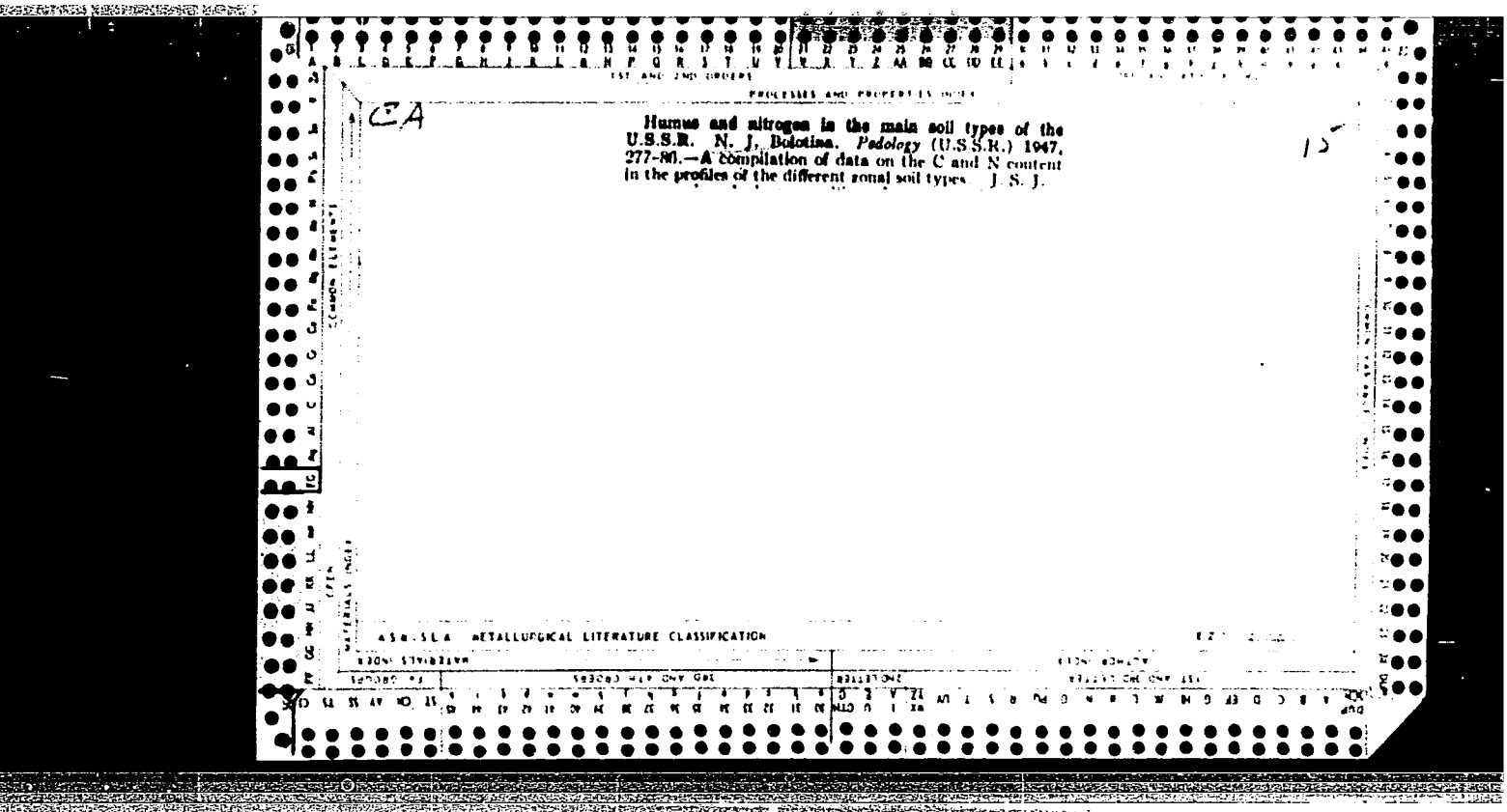

CA

Humus and nitrogen in the main soil types of the U.S.S.R. N. J. Dolotina. *Pedology* (U.S.S.R.) 1947, 277–80.—A compilation of data on the C and N content in the profiles of the different zonal soil types. J. S. J.

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A.S.M.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

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H

Soil & Fertilizer

Soil conditions for the development of red clover N. I. Bolotina. *Trudy Pochvennogo Inst. im. V. V. Dokuchaeva, Akad. Nauk S.S.S.R.* 31, 270-91(1950).—To maintain a better stand of clover in a clover-grass mixt. the elimination of Al in soln. is of prime importance. Above 7.8 mg. of Al per 100 g. of soil there is a sharp drop in the percentage of clover in the mixt. Lime eliminates the soln. of Al. Manure also decreases the sol. Al in the soil. Applications of P-K fertilizers increase the sol. Al, but increase the clover stand. With the reduction of sol. Al, the N content of the clover increases. J. S. Joffe

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BOLOTINA, N.I.

Effect of irrigation on the nutrient content of Ciscaucasian Chernozems [with summary in English]. Pochvovedenie no.1: 40-50 Ja '59. (MIRA 12:2)

1. Pochvennyy institut imeni V.V. Dokuchayeva, AN SSSR.
(Caucasus, Northern--Chernozem soils)

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BOLOTINA, N.I.; KOKOVINA, T.P.

Seasonal dynamics of mobile nitrogen compounds in deep Chernozems in Kursk Province. Trudy TSentr. Chern. gos. zap. no.6:332-364 '60. (MIRA 16:8)

(Kursk Province--Soils--Nitrogen content)

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BOLOTINA, N.I.

Dynamics of nitrogen and phosphorus in irrigated Ciscauscasian Chernozems of Rostov Province. Trudy Pochv. inst. 55:67-112 '60. (MIRA 13:11)

(Rostov Province--Filed crops--Fertilizers and manures)
(Irrigation farming) (Chernozem soils)

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Experiments with liming and mineral top dressings applied to perennial grasses. Trudy Pochv. inst. 55:158-164 '60.
(MIRA 13:11)

(Moscow Province--Grasses--Fertilizers and manures)
(Liming of soils)

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BOLOTINA, N.I.

Readily hydrolizable nitrogen fraction in deep Chernozem soils, its composition and agrochemical importance. Pochvovedenie no.9:79-82 S '61. (MIRA 14:10)

1. Pochvennyy institut imeni V.V.Dokuchayeva AN SSSR.
(Chernozem soils--Nitrogen content)

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SHKONDE, E.I., kand. sel'khoz. nauk; ROZOV, N.N.; SOKOLOV, A.V., doktor sel'khoz. nauk, otv. red.; SERDOBOL'SKIY, I.P., red. [deceased]; ZAVARITSKIY, V.N., red.; MUZYCHKIN, Ye.T., red.; FEDOROVSKIY, D.V., red.; BOLOTINA, N.I., red.; ALEKSEYEVA, D.M., red.; ANDREYEVA, Ye.A., red.

[Agrochemical characteristics of the soils of the U.S.S.R.; regions of the Northern Caucasus] Agrokhimicheskaia kharakteristika pochv SSSR; raiony Severnogo Kavkaza. Moskva, Izd-vo "Nauka," 1964. 364 p. (MIRA 17:6)

1. Akademiya nauk SSSR. Pochvennyy institut im. V.V.Dokuchayeva.

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BOLOTINA, N.M.

Caves of the region of the Vilyuisk Rapids. N. M. Bolotina and D. S. Sokolov. *Bynll. Moskov. Obshchestva Ispytatelei Prirody, Otdel Geol.* 29, No. 4, 61–78(1954).—A consideration was given to the unique cave phenomena in the Devonian dolomite. The development of the caves proceeded in a period of long geol. time, beyond the range of the drainage action of the contemporary hydrographic system. Results of chem. analyses are recorded in tables showing: (1) chem. compn. of the dolomites, (2) chem. compn. of the dolomites at different stages of their disintegration, and (3) change of chem. compn. and wt. of samples of dolomite during the process of leaching. Gladys S. Macy

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RASTVOROVA, V.A.; SAKHAROVA, Ye.I.; BOLOTINA, N.M.

Erosional cauldrons in the Angara Valley. Vest. Mosk. un. Ser. 5:Geog. 18 no.2:65-67 Mr-Ap '63. (MIRA 16:3)
(Angara Valley--Erosion)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTINA, N.M.

Geology and hydrogeological conditions of the Angara-Vikhoreva interfluve. Mat. Kom. po izuch. podzem. vod. Sib. i Dal' Vost. no.2:112-115 '62. (MIRA 17:8)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

PAVLOV, B.A., BARU, O.P., BOLOTINA, N.V., PRAZNIKOVA, N.V., CHEBYKIN, D.A.

"On the comparative physiology of the delayed and traced conditioned reflexes in some species of vertebrates."

Report submitted, but not presented at the 22nd International Congress of Physiological Sciences.
Leiden, the Netherlands 10-17 Sep 1962

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6

BOLOTINA, O.A., kandidat ekonomicheskikh nauk; FILATOV, N.L., redaktor; NOVOCHADOV, A.G., redaktor; KONYASHINA, A., tekhnicheskiy redaktor

[Water cost reduction in municipal water supply] Snizhenie sebestoimosti vody gorodskikh vodoprovodov. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1954. 50 p. (MLRA 8:6)
(Water supply--Accounting)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206120013-6"