"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

S/109/62/007/009/005/018
D409/D301

AUTHORS: Gor'kov, V.A., Yelinson, M.I., and Yakovleva, G.D.

TITLE: Theoretical and experimental investigation of pre-arc effects in field emission

PERIODICAL: Radiotekhnika i elektronika, no. 9, v. 7, 1962, 1501 - 1510

TEXT: A more advanced theory of the vacuum arc is developed which takes into account the temperature dependence of the parameters of the emitter and is adequate for a wider range of variation of the geometrical parameters of the emitter. The heat-balance equation for conical emitters is derived. After transformations, this equation becomes

$$\frac{\partial^2 T}{\partial r^2} + \frac{2}{r}\frac{\partial T}{\partial r} - \varphi_1(T)\frac{\partial T}{\partial t} - \varphi_2(T)\frac{1}{r} + \varphi_3(T)\frac{1}{r^4} = 0, \qquad (7)$$

where φ_1 is related to the specific heat, φ_2 to the radiation coefficient, and φ_3 to the current intensity and resistivity; r denotes

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the emitter radius. Equation (7) was solved by numerical methods. The dependences $T = f(t)$ and $T = f(r)$ were calculated for various values of I; thereby the parameter θ (the semiangle of the emitter cone), assumed the following values: 5; 15; 25; 35 and 45°. The current density j equalled $2 \cdot 10^8$ A/cm^2. The above theoretical considerations were compared with experiment. The theoretical and experimental curves were in good qualitative agreement; the quantitative discrepancies are apparently due to various factors which are not taken into account by theory (the damping effect of the space charge, the use of the mean current-density instead of the actual current density, etc.). The theoretical calculations for small semiangles α ($< 30°$), are qualitatively in agreement with the results of W.P. Dyke a. oth., (Ref. 1: Phys. Rev., 1953, 91, 5, 1043). For values of $\alpha > 30°$, the authors obtained a stronger dependence of the critical current-density j_{crit} on α. The theoretical and experimental curves $j_{crit} = \varphi(\alpha)$ and $j = \varphi(t)$ with U = const., were in good agreement. No use of self-heating effects can be made, in view of the instability of the processes involved. In practice, it is most convenient to use emitters with large semiangle ($\alpha = 90°$ and

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Theoretical and experimental ... S/109/62/007/009/005/018
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above). Such cathodes have great stability in the "vacuum" arc, small emission-angles and considerable operating current-densities. There are 10 figures.

SUBMITTED: January 12, 1962

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

MOTT, N.F.; TUZ, U. [Twose, W.D.]; SANDOMIRSKIY, V.V. [translator]; GOR'KOV, V.A. [translator]; ZHDAN, A.G. [translator]

"The theory of impurity conduction". Usp. fiz. nauk 79 no.4: 691-740 Ap '63. (MIRA 16:3)

(Electric conductivity)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

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L 12095-66 EWT(1)/EWP(m)/EWT(m)/EWP(j)/ET/EWP(t)/ETI IJP(c) JD/WW/JW/EWD/WW

ACC NR: AP6029752 (A) SOURCE CODE: UR/0414/66/000/002/0021/0027

AUTHOR: Gor'kov, V. A. (Moscow); Kurbangalina, R. Kh. (Moscow)

ORG: none

TITLE: Some data on the detonability of ammonium perchlorate

SOURCE: Fizika goreniya i vzryva, no. 2, 1966, 21-27

TOPIC TAGS: ~~ammonium~~ perchlorate, ~~critical diameter~~, solid propellant, explosive, ammonium compound

ABSTRACT: Considerable differences in the critical diameter of ammonium perchlorate have been observed between batches produced in winter and summer. This is attributed to the differences in water content. To investigate this problem, experiments were made to determine the effects of initial temperature (20—220C), the water content, the grain size, and the density on the ~~critical diameter of ammonium perchlorate~~. The results showed that the critical diameter is an exponential function of the initial temperature. The critical diameter of ammonium perchlorate increases considerably even at low water contents (0.5%), while the critical diameter of trotyl is affected only at high water contents exceeding 4%. Orig. art. has: 8 figures. [PV]

SUB CODE: 21, 19/ SUBM DATE: 12Jan66/ ORIG REF: 003/ OTH REF: 003/ ATD PRESS: 5061

Card 1/1 af UDC: 534.222.2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOV, V.K.

Irregularity in the running of the loom. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.2:84-91 '63. (MIRA 16:6)

1. Ivanovskiy tekstil'nyy institut imeni M.V.Frunze.
(Looms)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOL'KOV, V.K.

Speeding up of the shuttle in the start of the loom form the picking position. Izv. vys. ucheb. zav.; tekh. teks. prom. no.3:86-91 '64. (MIRA 17:10)

1. Ivanovskiy tekstil'nyy institut imeni Frunze.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GORDEYEV, Vasiliy Aleksandrovich; GOR'KOV, V.K., kand. tekhn. nauk, retsenzent; ISAKOV, N.P., kand. tekhn. nauk, retsenzent; SIDOROV, Yu.P., kand. tekhn. nauk, retsenzent; AGADZHANOVA, I.A., red.;

[Dynamics of the mechanisms for warp releasing and tensioning in looms] Dinamika mekhanizmov otpuska i natiazheniia osnovy tkatskikh stankov. Moskva, Legkaia industriia, 1965. 223 p. (MIRA 18:10)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

43924
S/188/62/000/006/006/016
B187/B102

AUTHOR: Gor'kov, V. P.

TITLE: The dispersion relation for the ordinary wave with consideration of the wave magnetic field

PERIODICAL: Moscow. Universitet. Vestnik. Seriya III. Fizika, astronomiya, no. 6, 1962, 28-31

TEXT: When waves are propagated in a uniform unbounded plasma placed in a field $\vec{H}_0$, the frequency ω and the propagation constant k are interrelated by a dispersion relation resulting from the Maxwell equations and from the kinetic equation. In general, the electron distribution is assumed to be Maxwellian. This paper starts with an arbitrary electron distribution $f_0(v,u)$ where v is the transverse component, u is the longitudinal component of the electron velocity with reference to $\vec{H}_0$. In the general dispersion relation for the ordinary wave propagating transversely to $\vec{H}_0$, the term accounting for the effect of the magnetic field vanishes when the

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The dispersion relation for the...

velocity distribution is isotropic: $f_0(v,u) = f_0(v^2 + u^2)$. In this case, the dispersion relation is

$$G(k,\omega) = k^2 - \frac{\omega^2}{c^2} - \frac{\omega\omega_0^2}{\omega_H c^2} 2\pi \int_0^{+\infty}\int_{-\infty}^{+\infty} f_0 \times$$

$$\times \sum_{n=-\infty}^{+\infty} \frac{J_n^2\left(\frac{kv}{\omega_H}\right)}{n - \frac{\omega}{\omega_H}} v\,dv\,du = 0. \qquad (2)$$

$\omega_H = \frac{eH_0}{mc}$ is the Larmor frequency, $\omega_0 = \sqrt{\frac{4\pi Ne^2}{m}}$ is the plasma frequency of the electrons, ϑ is the polar angle in velocity space ($z \parallel \vec{H}_0$, ϑ counted from the x-axis), $I_n(kv/\omega_H)$ are Bessel functions. By means of the principle of the argument (Cauchy integral theorem in the theory of

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The dispersion relation for the...

functions) it is shown that $G(k,\omega)$ for any given real k has no complex solutions $\omega(k)$ and that a real solution exists in every interval $(n\omega_H, (n+1)\omega_H)$, where n is a natural number. This holds true also for a non-isotropic distribution if $f_o(v,u)$ is a monotonically decreasing function with respect to the variable v. If this restriction upon f_o is not fulfilled, then it is not possible to make any general statements as to the kind of solutions, owing to the method used here.

ASSOCIATION: Kafedra statisticheskoy fiziki i mekhaniki (Department of Statistical Physics and Mechanics)

SUBMITTED: March 16, 1961

Card 3/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOV, Yu.A.; CHERNIN, K.Ye.; BITYUTSKOV , R.S.; KUROSH, A.G., glavnyy red.; BITYUTSKOV, V.I., red.; BOLTYANSKIY, V.G., red.; DYNKIN, Ye.B., red.; SHILOV, G.Ye., red.; YUSHKEVICH, A.P., red.; AKHLAMOV, S.N., tekhn.red.

[Forty years of mathematics in the U.S.S.R., 1917-1957; in two volumes] Matematika v SSSR za sorok let, 1917-1957; v dvukh tomakh. Moskva, Gos.izd-vo fiziko-matem.lit-ry. Vol.2. [Biobibliography] Biobibliografiia. 1959. 819 p. (MIRA 12:9) (Mathematicians)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

PISKUNOV, Nikolay Semenovich; KEPPERN, I.V., red.; GOR'KOV, Yu.A., red.

[Differential and integral calculi for institutions of higher technical education] Differentsial'noe i integral'noe ischisleniia dlia vtuzov. Izd.5. Moskva, Izd-vo "Nauka," Vol.2. 1964. 312 p. (MIRA 17:5)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

PISKUNOV, Nikolay Semenovich; KEPPEN, I.V., red.; GOR'KOV, Yu.A., red.

[Differential and integral calculi for technical schools of higher education] Differentsial'noe i integral'noe ischisleniia dlia vtuzov. Izd.6. Moskva, Nauka, Vol.2. 1965. 312 p. (MIRA 18:5)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

PISKUNOV, Nikolay Semenovich; KEPPEL, I.V., red.; GOR'KOV, Ya.A., red.

[Differential and integral calculi for schools of higher technical education] Differentsial'noe i integral'noe ischisleniia dlia vtuzov. Moskva, Nauka. Vol.1. Izd.6. 1965. 548 p. (MIRA 18:4)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GNEDENKO, Boris Vladimirovich; GOR'KOV, Yu.A., red.

[Course in probability theory] Kurs teorii ve[illegible]
nostei. Moskva, Nauka, 1965. 400 p. (MIR [illegible])

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

EL'SGOL'TS, Lev Ernestovich; GOR'KOV, Yu.A., red.

[Differential equations and the calculus of variations] Differentsial'nye uravneniia i variatsionnoe ischislenie. Moskva, Nauka, 1965. 424 p. (Kurs vysshei matematiki i matematicheskoi fiziki, no.3) (MIRA 19:1)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOV, Yu.P.

One differential inequality of the fourth order. Nauch.dokl. vys.shkoly; fiz.-mat.nauki no.3:22-24 '59. (MIRA 13:6)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Inequalities (Mathematics))

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

ACCESSION NR: AP4042777 S/0020/64/157/003/0509/0512

AUTHOR: Gor'kov, Yu. P.

TITLE: On the behavior of the solutions of boundary problems for the quasilinear parabolic equation as t approaches infinity

SOURCE: AN SSSR. Doklady*, v. 157, no. 3, 1964, 509-512

TOPIC TAGS: boundary problem, parabolic equation, existence theorem, Cauchy problem

ABSTRACT: The behavior of the solution of the parabolic equation

$$Lu \equiv \frac{D}{Dx} f(x, u, u_x) - a(x, t, u, u_x)\frac{\partial u}{\partial t} = 0 \qquad (1)$$

(D/Dx denote total differentiation with respect to x) is investigated as $t \to \infty$ for the boundary problem

$$u(x, 0) = u_0(x), \quad u(0, t) = 0, \quad u_x(l, t) = A_0, \qquad (2)$$

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and also for the first boundary problem

$$u(x, 0) = u_0(x), \quad u(0, t) = \varphi_1(t), \quad u(l, t) = \varphi_2(t) \tag{3}$$

under the condition that $\varphi_i(t) \to \varphi_i^0$ as $t \to \infty$ $(i = 1, 2)$. It is assumed further that for all u and p, and for

$$(x, t) \in D \{0 \leqslant x \leqslant l, 0 \leqslant t < \infty\}$$

the following conditions are satisfied:

$$\frac{\partial f(x, u, p)}{\partial p} > \alpha > 0, \tag{4}$$

$$0 < a(x, t, u, p) \leqslant \gamma_1(x, u, p), \tag{5}$$

where α is a constant and $\gamma_1(x, u, p)$ is some continuous function. An existence theorem is proved for the boundary problem (1), (2) under certain restrictions. The function to which the solution tends uniformly is defined. A sufficiency condition for the existence of the solution is stated. "I am grateful to my scientific

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ACCESSION NR: AP4042777

adviser A. M. Il'in for suggesting the problem and for interested guidance of the work." Orig. art. has: 14 formulas.

Presented by Academician I. G. Petrovskiy.

ASSOCIATION: Ural'skiy gosudarstvenny*y universitet im. A. M. Gor'kogo (Ural State University)

SUBMITTED: 04Mar64

ENCL: 00

SUB CODE: MA

NR REF SOV: 003

OTHER: 001

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, A.A.

ANDERS, Vasiliy Rudol'fovich; GOR'KOVA, A.A., vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Control and measuring instruments; an introductory course] Kontrol'no-izmeritel'nye pribory; vvodnyi kurs. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1953. 143 p. (MLRA 11:2)
(Petroleum industry)
(Automatic control)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

NIKITIN, Viktor Aleksandrovich; GOR'KOVA,A.A., redaktor; KLEYMENOVA,K.F., redaktor; TROPIMOV,A.V., tekhnicheskiy redaktor

[Pressure measurement and specialized instruments for oil and gas refineries] Izmerenie davleniia i pribory spetsial'nogo naznacheniia v neftegazopererabotke. Moskva, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry, 1955. 255 p. (MIRA 9:3)
(Petroleum--Refining)(Petroleum industry--Equipment and supplies)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

[redacted] GOR'KOVA, A.A.

ANDERS, Vasiliy Rudol'fovich; SHCHEPKIN, S.I., prof., retsenzent; NEMTSOV, N.Yu., kand.tekhn.nauk, retsenzent; GOR'KOVA, A.A., vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Control and measuring devices; introductory course] Kontrol'no-izmeritel'nye pribory; vvodnyi kurs. Moskva, Gos.nauchno-tekhn. izd-vo neft.i gorno-toplivnoi lit-ry, 1958. 143 p. (MIRA 11:1)
(Measuring instruments)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

A A

KUZMAK, Ye.M., prof. doktor tekhn. nauk, red.; TARAN , V.D.,prof., doktor tekhn. nauk, red.; ZHIGACH, K.F., prof.,red.; MURAV'YEV, I.M., prof.,red.; TIKHOMIROV,A.A., kand. ekon. nauk, red.; YEGOROV, V.I., kand. ekon. nauk, red.; CHARYGIN, M.M., prof., red.; DUNAYEV, F.F., prof., red.; CHERNOZHUKOV, N.I., prof., red.; CHARNYY,I.A., prof., red.; PANCHENKOV, G.M., prof., red.; DAKHNOV, V.N., prof., NAMETKIN, N.S., doktor khim. nauk, red.; ALMAZOV, N.A., dots., VINOGRADOV, V.N., kand. tekhn. nauk, red.; BIRYUKOV, V.I., kand. tekhn. nauk, red.; TAGIYEV, E.I., red.; GUREVICH, V.M., red.; GOR'KOVA, A.A., ved. red.; FEDOTOVA, I.G., tekhn. red.

[Proceedings of the conference of technical schools on the problems of new equipment for the petroleum industry] Mezhvuzovskoe soveshchanie po voprosam novoi tekhniki v neftianoi promyshlennosti. 1958. materialy... Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry. Vol. 3. [Manufacture of petroleum industry equipment] Neftianoe mashinostroenie. 1958. 222 p. (MIRA 11:11)
(Petroleum industry--Equipment and supplies)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

SHAPIRO, Ye.A.; ZHUKOVSKIY, Ye.S.; MUSTAFABEKOVA, A.A.; MIKHAYLOV, N.D.; KOBYLYANSKIY, A.K.; KOHONYKHIN, A.G.; EPSHTEYN, R.R.; KARPINSKIY, V.F.; DAVYDOVA, R.T.; TROITSKIY, V.I., red.; GOR'KOVA, A.A., vedushchiy red.; FEDOTOVA, I.G., tekhn.red.

[Establishing standards for material consumption and stocks in the petroleum industry] Normirovanie raskhoda i proizvodstvennykh zapasov osnovnykh materialov v neftianoi promyshlennosti. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 252 p. (MIRA 12:12)

(Petroleum industry--Standards)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

PANTAYEV, Nikolay Fedorovich; DIANOV, Vladimir Gavrilovich; GOR'KOVA, A.A., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Automation in the petroleum industry; elements of the theory and automatic controllers] Avtomaticheskoe regulirovanie v neftianoi promyshlennosti; elementy teorii i avtoreguliatory. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 287 p. (MIRA 13:2)
(Petroleum industry) (Automatic control)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

ISAKOVICH, Roman Yakovlevich; MAMIKONOV, A.G., dotsent, kand.tekhn.nauk, retsenzent; GOR'KOVA, A.A., vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Instruments and automation of petroleum production] Kontrol' i avtomatizatsiia dobychi nefti. Moskva, Gos.nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 398 p.
(MIRA 13:1)

(Oil fields--Production methods)
(Automatic control)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

IVANKOV, Pavel Aleksandrovich; GOR'KOVA, A.A., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Automatic control of deep-well pump installations] Avtomatizatsiia glubinnonasosnykh ustanovok. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 125 p. (MIRA 13:12)

(Oil well pumps) (Automatic control)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

ZAVELEV, Gerasim Il'ich, kand.tekhn.nauk; GOR'KOVA, A.A., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Nemetallicheskie futerovki dlia apparatury neftianoi i neftekhimicheskoi promyshlennosti. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 149 p. (MIRA 13:3)
(Petroleum refineries--Equipment and supplies)
(Protective coatings) (Reinforced concrete)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

SINEL'NIKOV, Aleksandr Vasil'yevich; GOR'KOVA, A.A., ved. red.;
MUKHINA, E.A., tekhn. red.

[Means of automatic control of oil and gas well drilling]
Avtomatizatsiia i sredstva kontrolia bureniia neftianykh
i gazovykh skvazhin. Moskva, Gostoptekhizdat, 1960. 366 p.
(MIRA 16:5)
(Oil well drilling) (Automatic control)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

STREYTS, Vladimir [Strejc, Vladimir], inzh.; SHALAMON, Miroslav [Salamon, Miroslav], inzh., doktor; KOTEK, Zdenek, inzh., kand.tekhn.nauk; BALDA, Milan, dotsent, inzh., kand.tekhn.nauk; GOL'DENBERG, G.M., inzh. [translator]; SIMOYU, M.P., inzh., red.; GOR'KOVA, A.A., vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Fundamentals of the theory of automatic control] Osnovy teorii avtomaticheskogo regulirovaniia. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 332 p. Translated from the Czech. (MIRA 13:6)

(Automatic control)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

SINEL'NIKOV, Aleksandr Vasil'yevich; GOR'KOVA, A.A., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Automatic control of well drilling, its method and equipment] Avtomatizatsiia i sredstva kontrolia bureniia neftianykh i gazovykh skvazhin. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 366 p. (MIRA 14:1)
(Oil well drilling) (Automatic control)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

DENISOV, Sergey Sergeyevich; GOR'KOVA, A.A., vodushchiy red.; MUKHINA, E.A., tekhn.red.

[Electronic devices for control and automation in the petroleum refining industry] Elektronnye pribory kontrolia i avtomatizatsii neftekhimicheskogo proizvodstva. Izd.2., perer. i dop. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 474 p. (MIRA 13:11)
(Petroleum industry--Electric equipment)
(Automatic control)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

ANISIMOV, Igor' Vasil'yevich; GOR'KOVA, A.A., ved. red.; POLOSINA, A.S., tekhn. red.

[Automatic control of rectification processes] Avtomaticheskoe regulirovanie protsessa rektifikatsii. 2., izd. dop. Moskva, Gos. nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 179 p. (MIRA 14:12)

(Automatic control) (Distillation)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

TOPCHIYEV, A.V., akademik, red.; BABUSHKINA, S.I., ved. red.; GOL'KOVA, A.A., ved. red.; YENISHERLOVA, O.M., ved. red.; YEFREMOVA, T.D., ved. red.; LEVINA, Ye.S., ved. red.; TITSKAYA, B.F., ved. red.; VORONOVA, V.V., tekhn. red.

[Reports of the International Petroleum Congress, 5th. New York, 1959] Doklady V Mezhdunarodnogo neftianogo kongressa, New York, 1959. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry. Vol.4. [Transportation, quality, and use of petroleum products] Transport, kachestvo i primenenie nefteproduktov. 1961. 398 p. (MIRA 14:9)

1. International Petroleum Congress, 5th. New York, 1959. (Petroleum products)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

BORISOV, Sergey Dmitriyevich; GOR'KOVA, A.A., ved. red.; POLOSINA, A.S., tekhn. red.

[Underground storage of gas; from the practice of the Kuybyshev Economic Council] Podzemnoe khranenie gaza; iz opyta raboty Kuibyshevskogo sovnarkhoza. Moskva, Gostoptekhizdat, 1962. 111 p. (MIRA 15:3)

(Gas--Storage)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

FARKHADOV, Azizaga Aliagayevich, doktor tekhn.nauk; NEGREYEV, V.F., red.; GOR'KOVA, A.A., ved. red.; POLOSINA, A.S., tekhn. red.

[Cathodic protection of steel structures against corrosion in sea water]Katodnaia zashchita ot korrozii stal'nykh sooruzhenii v morskoi vode. Moskva, Gostoptekhizdat, 1962. 249 p. (MIRA 15:9)

(Cathodic protection) (Hydraulic structures—Corrosion)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

ABRUKIN, Abram L'vovich; KHIRNYKH, Leonid Andreyevich; PEREVERZEV, V.V., red.; GOR'KOVA, A.A., ved. red., YAKOVLEVA, Z.I., tekhn. red.

[Remote control in petroleum production] Telemekhanizatsiia dobychi nefti. Moskva, Gostoptekhizdat, 1962. 302 p. (MIRA 16:2)

(Remote control)
(Oil fields--Equipment and supplies)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

PROTOMOV, Aleksey Ivanovich; GOR'KOVA, A.A., ved. red.; VOROTOVA, V.V., tekhn. red.

[Technical equipment for the compressor stations of gas pipelines and its operation]Tekhnologicheskoe oborudovanie kompressornykh stantsii magistral'nykh gazoprovodov i ego ekspluatatsiia. Moskva, Gostoptekhizdat, 1962. 326 p. (MIRA 15:10)

(Gas, Natural--Pipelines) (Compressors)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

ISAKOVICH, Roman Yakovlevich; GOR'KOVA, A.A., ved. red.;
YAKOVLEVA, Z.I., tekhn. red.

[Control and automation of petroleum and gas production]
Kontrol' i avtomatizatsiia dobychi nefti i gaza. Moskva,
Gostoptekhizdat, 1963. 354 p. (MIRA 16:12)
(Petroleum production) (Natural gas) (Automatic control)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

MELIK-SHAKHNAZAROV, Aleksandr Mikhaylovich; ALIYEV, Tofig Nemedovich; GOR'KOVA, A.A., ved. red.

[Instruments and methods for automatic control in the oil and gas industry] Pribory i sredstva avtomaticheskogo kontrolia v neftianoi i gazovoi promyshlennosti. Moskva, Izd-vo "Nedra," 1964. 271 p. (MIRA 17:7)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

ANDERS, Vasiliy Rudol'fovich; SMIRNOV, P.F., retsenzent; GOR'KOVA, A.A., ved. red.; VORONOVA, V.V., tekhn. red.

[Monitoring and automating the refining of oil and gas] Kontrol' i avtomatizatsiia protsessov pererabotki nefti i gaza. Moskva, Izd-vo "Nedra," 1964. 390 p. (MIRA 17:4)

1. Nachal'nik tsekha Kontrol'no-izmeritel'nykh priborov i avtomatiki zavoda Neftegaz (for Smirnov).

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

BELASH, Pavel Maksimovich, prof., doktor tekhn. nauk; ZHITKOV, L.P., dots., retsenzent; GOR'KOVA, A.A., inzh., vedushchiy red.

[Principles of computer engineering] Osnovy vychislitel'noi tekhniki. Moskva, Nedra, 1964. 329 p. (MIRA 18:2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, A.I.

Mineralogical characteristics of the Middle and Upper Eocene sediments in the southern part of the Ak-Tulagay plateau (middle Emba). Uch.zap. SGU 74:261-265 '60. (MIRA 15:7)
(Emba Valley--Mineralogy)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, A.V.

Effect of certain vitamins on succinic dehydrogenase in rabbit organs [with summary in English]. Farm. i toks. 21 no.5:78-81 S-O '58 (MIRA 11:11)

1. Kafedra farmakologii (zav. - prof. K.A. Shmelov [deceased]) Saratovskogo meditsinskogo instituta.
(VITAMINS, effects,
on succinic dehydrogenases metab. (Rus))
(SUCCINIC DEHYDROGENASE,
metab., eff. of vitamins in rabbit (Rus))

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, A.V.; GREBNEVA, L.S.

Effect of antituberculosis drugs and of ascorbic acid on the succinic dehydrogenase activity in various organs in rabbits. Farm. i toks 21 no.6:53-56 '58. (MIRA 12:1)

1. Kafedra patologicheskoy fiziologii (zav. - dots. P. Ya. Novorasova) Saratovskogo gosudarstvennogo meditsinskogo instituta.

(SUCCINIC DEHYDROGENASE,
metab. in various organs, eff. of anti-tuberc. drugs & vitamin C (Rus))
(VITAMIN C, eff.
on succinic dehydrogenase metab. in various organs (Rus))
(TUBERCULOSIS,
tuberculostatic drugs, eff. on succinic hydrogenase metab. (Rus))

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, A.V., kand.med.nauk

Some changes in the adenosinetriphosphoric acid content and in succinic dehydrogenase activity of Filatov's flap during its formation and migration. Ortop.,travm.i protez. 20 no.11:33-36 N '59. (MIRA 13:4)

1. Iz patofiziologicheskoy laboratorii (zaveduyushchiy - kand.med. nauk A.V. Gor'kova) Saratovskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (direktor - dotsent Ya.N. Rodin).
(SKIN TRANSPLANTATION metab.)
(SUCCINIC DEHYDROGENASE metab.)
(ADENOSINETRIPHOSPHORIC ACID)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

NOVORASOVA, P.Ya.; FEYGEL'SON, A.S.; KOROBKOV, G.G.; GOR'KOVA, A.V.

Influence of cortisone on the growth of experimental tumors.
Trudy Sar. gos. med. inst. 26:72-75 '59. (MIRA 14:2)

1. Saratovskiy meditsinskiy institut, kafedra patologicheskoy fiziologii (zav.-sotsent P.Ya. Novorasova).
(CORTISONE) (TUMORS)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

NOVORASOVA, P.Ya.; FEYGEL'SON, A.S.; KOROBKOV, G.G.; GOR'KOVA, A.V.

Change of some biochemical indexes in experimental tumor growth and following treatment with cortisone. Trudy Sar. gos. med. inst. 26:76-80 '59. (MIRA 14:2)

1. Saratovskiy meditsinskiy institut, kafedra patologicheskoy fiziologii (zav. - dotsent P.Ya. Novorasova).
(SUCCINIC DEHYDROGENASE) (TUMORS) (CORTISONE)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

CZECHOSLOVAKIA

GORKOVA, A.V., MD, director of the Pathophysiological Laboratory; RODIN, V. I., MD, Candidate of Sciences, director of the Biochemical Laboratory; BABICHENKO, N.I., MD, Candidate of Sciences, director of the Clinic of Neurosurgery. Research Institute of Traumatology and Orthopedics, Docent Dr I.M. RODIN, director, Saratov, USSR.

"Functional State of the Endocrinal System During Spine Injuries"

Prague, Casopis Lekaru Ceskych, Vol CII, No 24, 14 June 63, pp 663-666.

Abstract: A total of 56 patients were investigated. Injuries were localized as follows: neck spine -11, chest spine - 24, loin spine - 18, and 3 injuries of conus medullaris and cauda equina. Functioning of the thyroid gland was examined in 32 cases. Results of examinations showed a substantial reduction in the percentage of intercepting I^{131} by the thyroid gland in 22 cases, in the rest the percentage remained at the level of the lower normal limit. The interception speed was also reduced. The number of eosinophiles was conspicuously low. It seems that reduction of activities is connected with phenomena concerning central and reflexion dampening in the higher portions of the central nervous system. Reduced hormonal activity may be a manifestation of the adjustment of post-injury mechanisms

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

SUPONITSKAYA, M.A., kand. med. nauk; GOR'KOVA, A.V. (Saratov, ul. Nekrasova, d.28, kv.3)

Some indices of biological evaluation of skin homografts preserved by various methods. Ortop., travm. i protez. 25 no.6:66 Je '64. (MIRA 18:3)

1. Iz Saratovskogo instituta travmatologii i ortopedii (dir. - dotsent Ya.N. Rodin).

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, I.M. (Moscow):

"Specific structure and deformation features of sedimentary rocks at various stages of lithification".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOL'KOVA, I.M., doktor geol.-miner. nauk; [illegible], N.A.; DUCHKINA, N.A.; RYZHICHEVA, K.N.

[Nature of the strength and deformation properties of loess] Priroda prochnosti i deformatsionnye osobennosti lessovykh porod. Moskva, Nauka, 1964. 147 p. (MIRA 17:11)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

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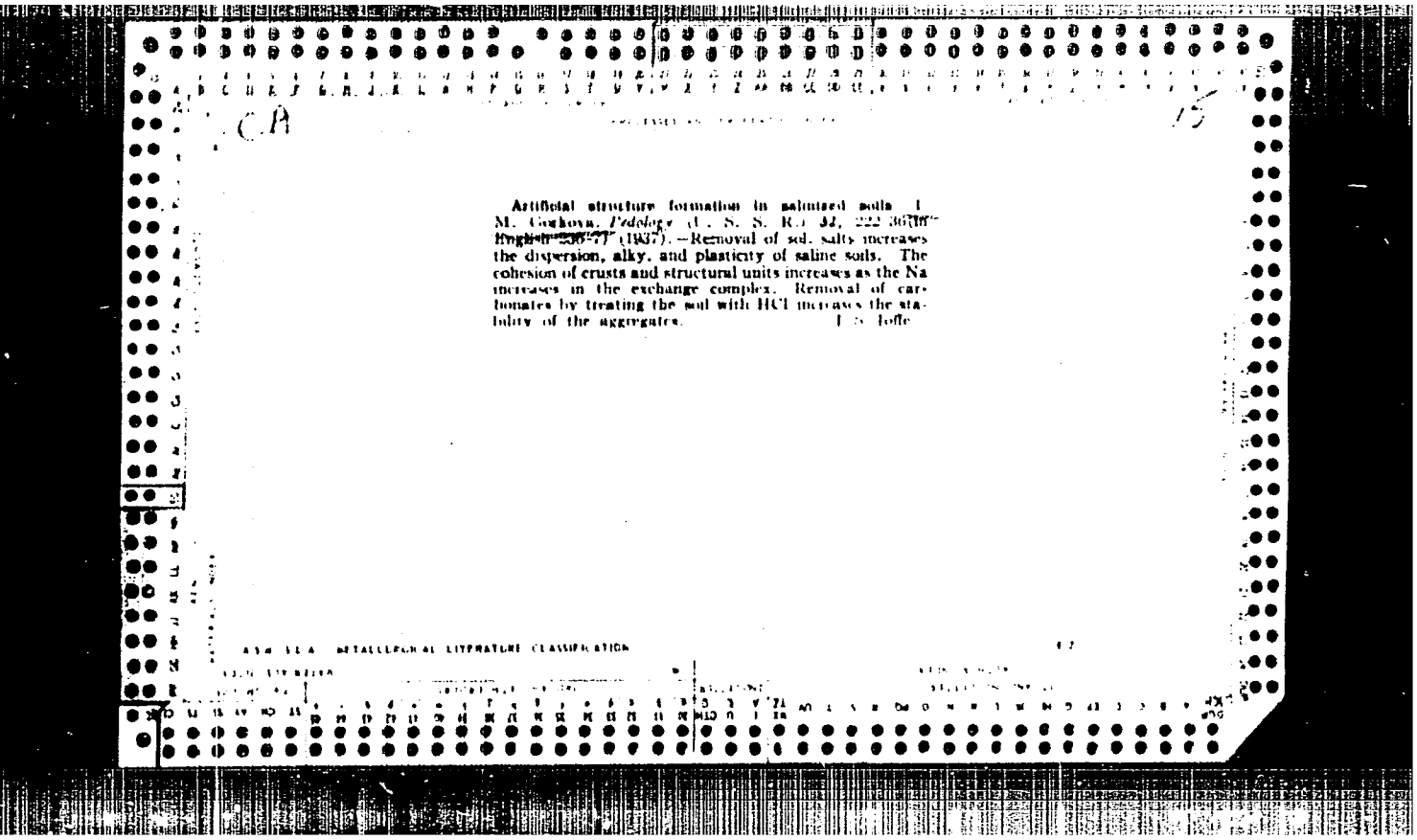

Artificial structure formation in saline soils. I. M. Gorkova. *Pedology* (U. S. S. R.) 32, 222-36(in English 236-7) (1937).—Removal of sol. salts increases the dispersion, alky. and plasticity of saline soils. The cohesion of crusts and structural units increases as the Na increases in the exchange complex. Removal of carbonates by treating the soil with HCl increases the stability of the aggregates. I. S. Joffe

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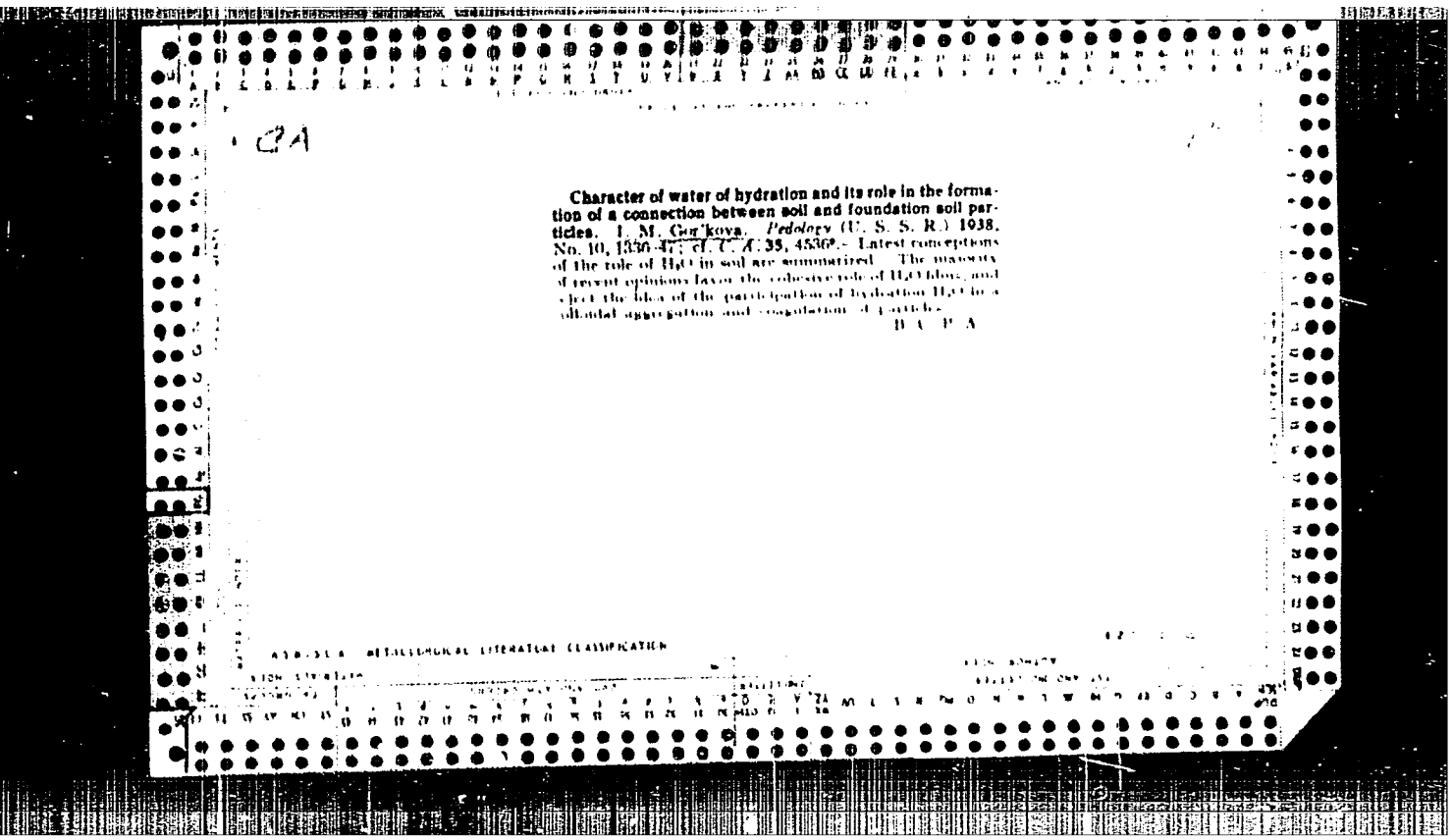

CA

Character of water of hydration and its role in the formation of a connection between soil and foundation soil particles. I. M. Gor'kova. *Pedology* (U. S. S. R.) 1938, No. 10, 1336-47; cf. *C. A.* 35, 4536⁹.— Latest conceptions of the role of H_2O in soil are summarized. The majority of recent opinions favor the cohesive role of H_2O films, and reject the idea of the participation of hydration H_2O in colloidal aggregation and coagulation of particles.

D. A. P. A

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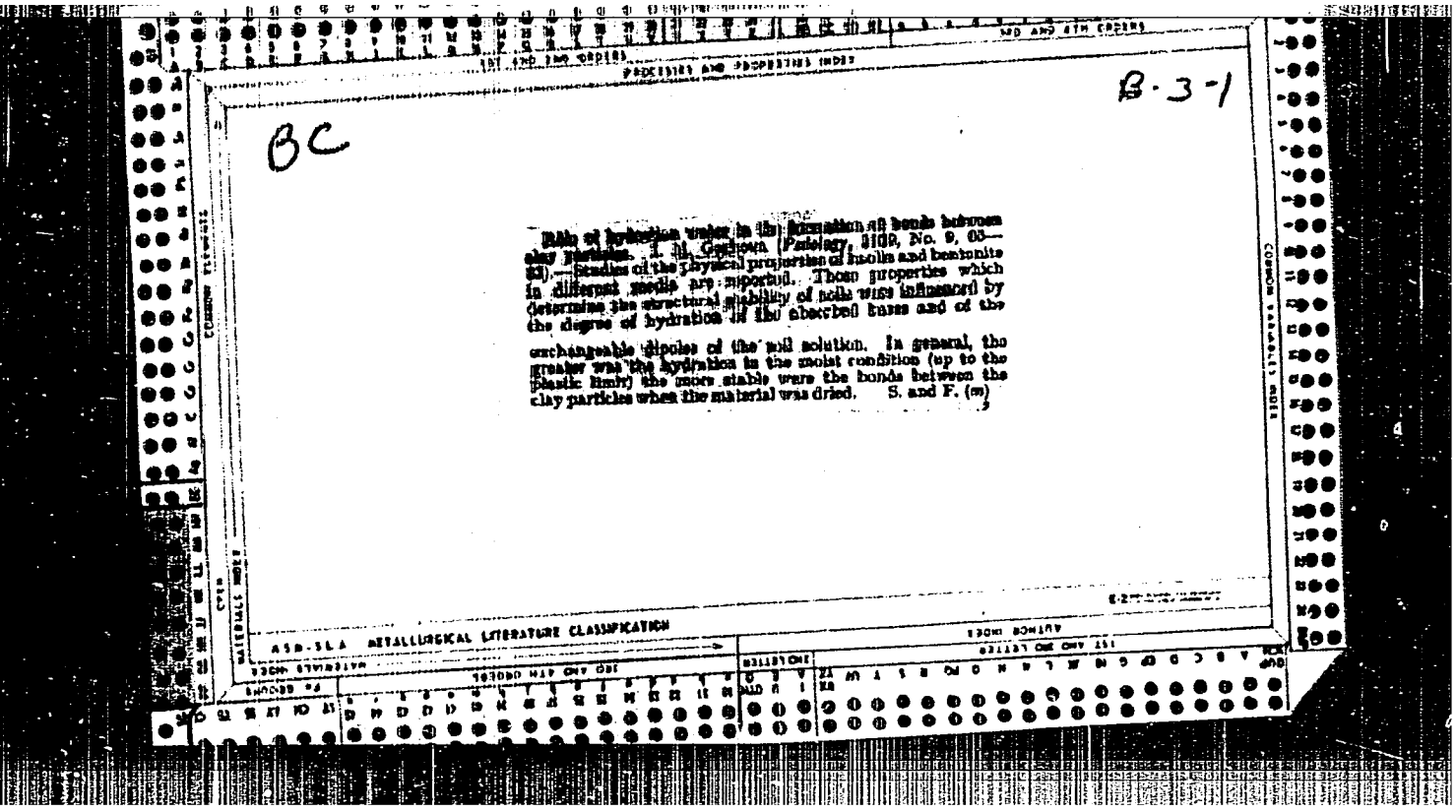

Bibl of hydration water in the formation of bonds between clay particles. T. M. Goldtown (*Pedology*, 1938, No. 9, 63—83).—Studies of the physical properties of kaolin and bentonite in different media are reported. These properties which determine the structural stability of soils were influenced by the degree of hydration of the absorbed bases and of the exchangeable dipoles of the soil solution. In general, the greater was the hydration in the moist condition (up to the plastic limit) the more stable were the bonds between the clay particles when the material was dried. S. and F. (m)

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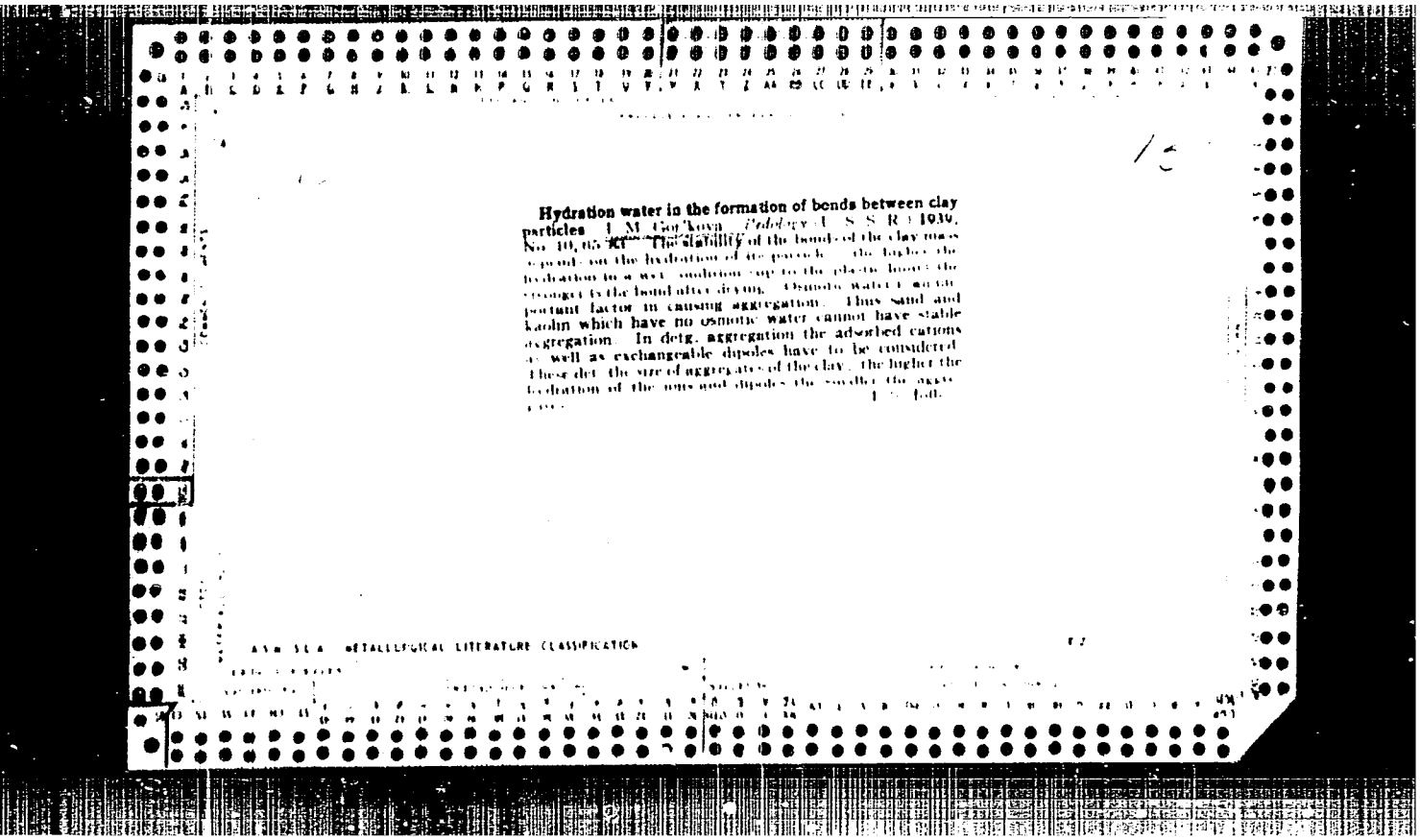

Hydration water in the formation of bonds between clay particles. I. M. Gorkova. *Pedology* (U. S. S. R.) 1939, No. 10, 65-87. The stability of the bonds of the clay mass depends on the hydration of the particles; the higher the hydration in a wet condition up to the plastic limit the stronger is the bond after drying. Osmotic water is an important factor in causing aggregation. Thus sand and kaolin which have no osmotic water cannot have stable aggregation. In detg. aggregation the adsorbed cations as well as exchangeable dipoles have to be considered. These det. the size of aggregates of the clay; the higher the hydration of the ions and dipoles the smaller the aggre- [illegible]

AVM SCA METALLURGICAL LITERATURE CLASSIFICATION

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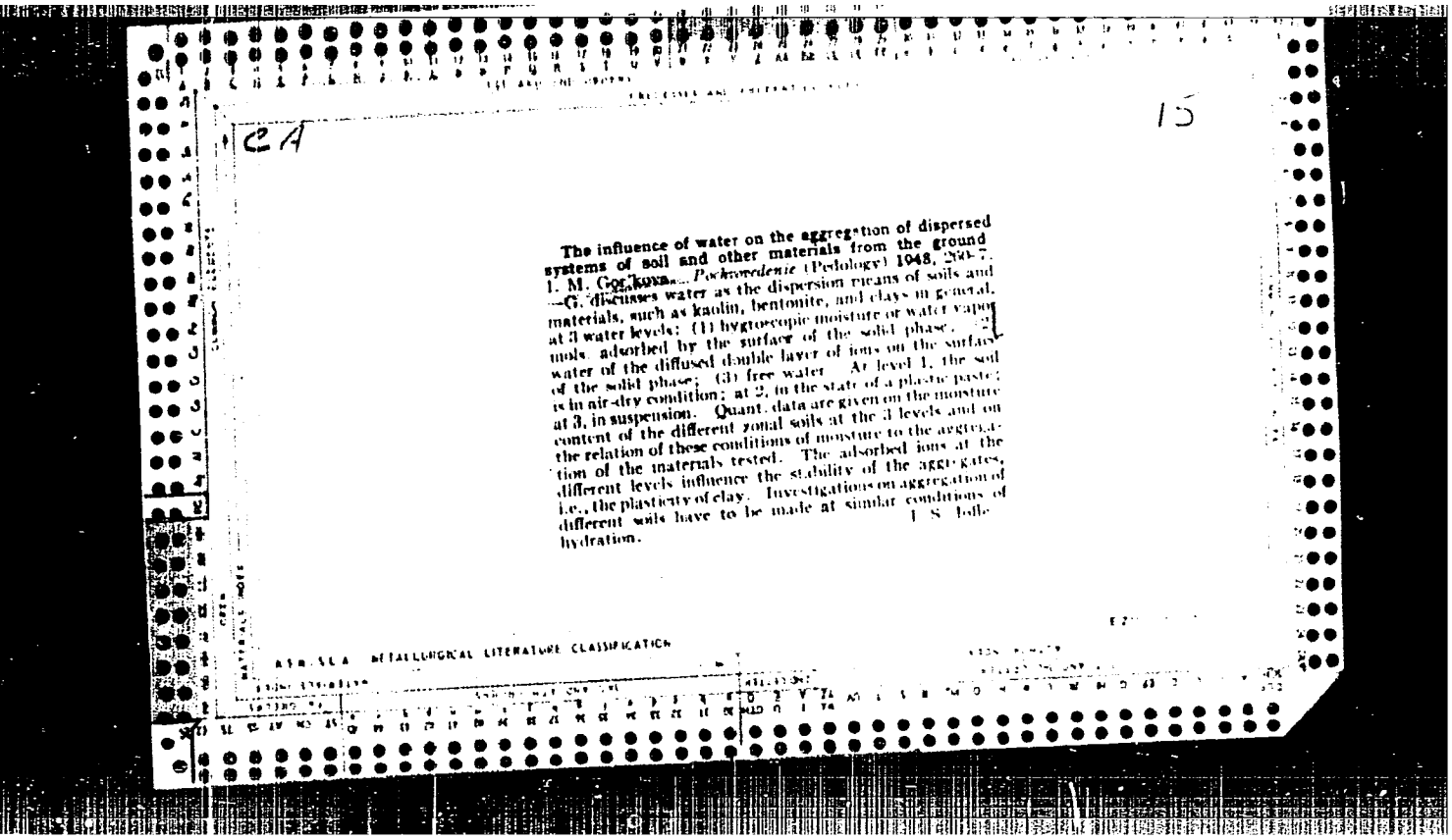

CA

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The influence of water on the aggregation of dispersed systems of soil and other materials from the ground
I. M. Gorlkova. *Pochvovedenie* (Pedology) 1948, 290-7.
—G. discusses water as the dispersion means of soils and materials, such as kaolin, bentonite, and clays in general, at 3 water levels: (1) hygroscopic moisture or water vapor mols. adsorbed by the surface of the solid phase; (2) water of the diffused double layer of ions on the surface of the solid phase; (3) free water. At level 1, the soil is in air-dry condition; at 2, in the state of a plastic paste; at 3, in suspension. Quant. data are given on the moisture content of the different zonal soils at the 3 levels and on the relation of these conditions of moisture to the aggregation of the materials tested. The adsorbed ions at the different levels influence the stability of the aggregates, i.e., the plasticity of clay. Investigations on aggregation of different soils have to be made at similar conditions of hydration. I. S. Jolle

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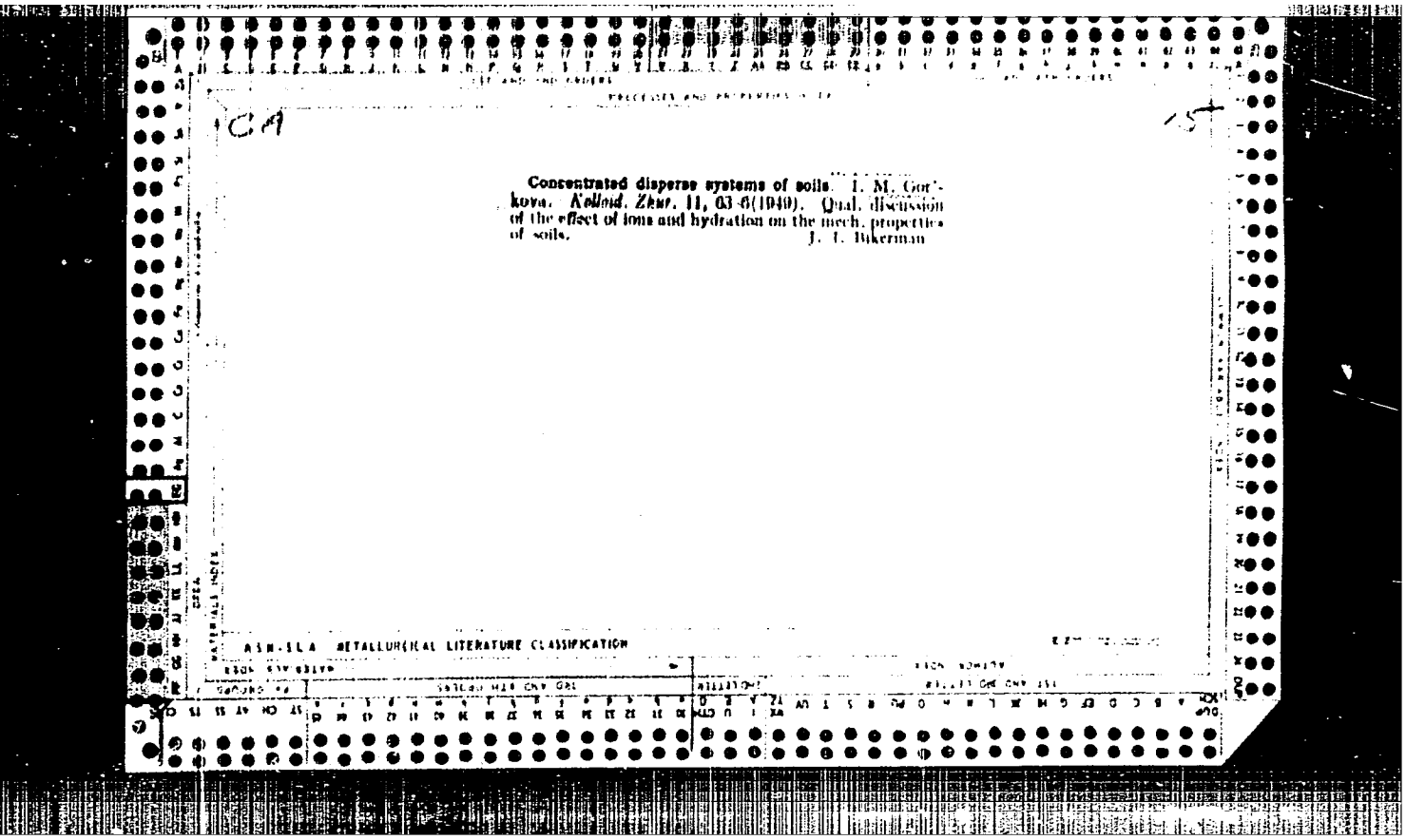

CA

Concentrated disperse systems of soils. I. M. Gor'kova. *Kolloid. Zhur.* 11, 63-6(1949). Qual. discussion of the effect of ions and hydration on the mech. properties of soils.
J. T. Bikerman

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

PRIKLONSKIY, V.A., doktor geologo-mineralogicheskikh nauk; GOR'KOVA, I.M. OKNINA, N.A.; REUTOVA, M.S.; CHEPIK, V.F.; RODIONOV, N.V., redaktor izdatel'stva; POLYAKOVA, T.V., tekhnicheskiy redaktor.

[Engineering geology characteristics of Khvalynian clays in relation to their formation (exemplified by some trans-Volga regions] Inzhenerno-geologicheskie osobennosti Khvalynskikh glinistykh porod v sviazi s usloviami ikh formirovaniia (na primere nekotorykh raionov Zavolsh'ia). Moskva, Izd-vo Akademii nauk SSSR 1956. 152 p. (Akademiia nauk SSSR. Laboratoriia gidrogeologicheskikh problem. Trudy vol. 13) (MLRA 10:3)
(Clay)

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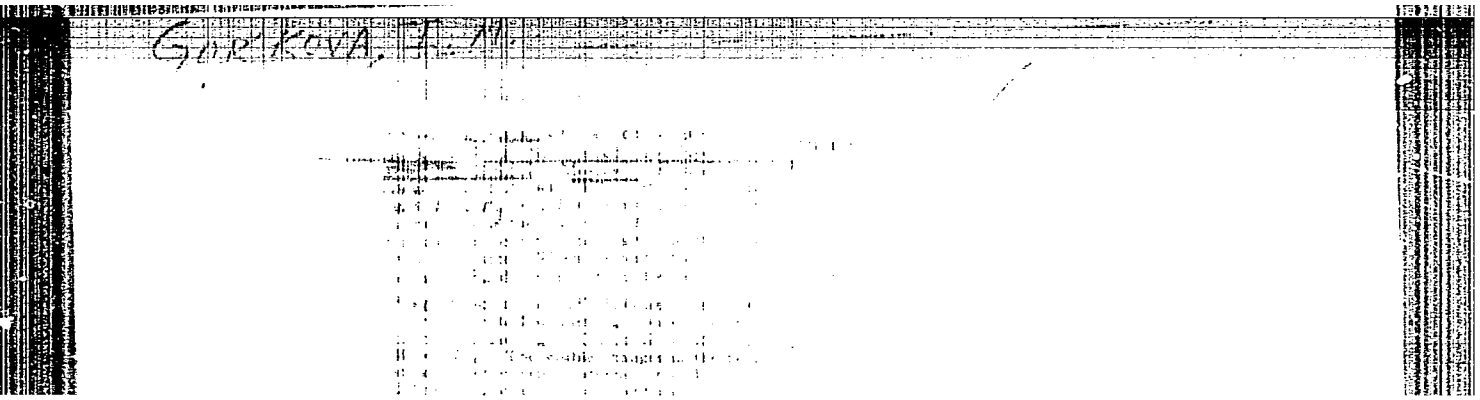

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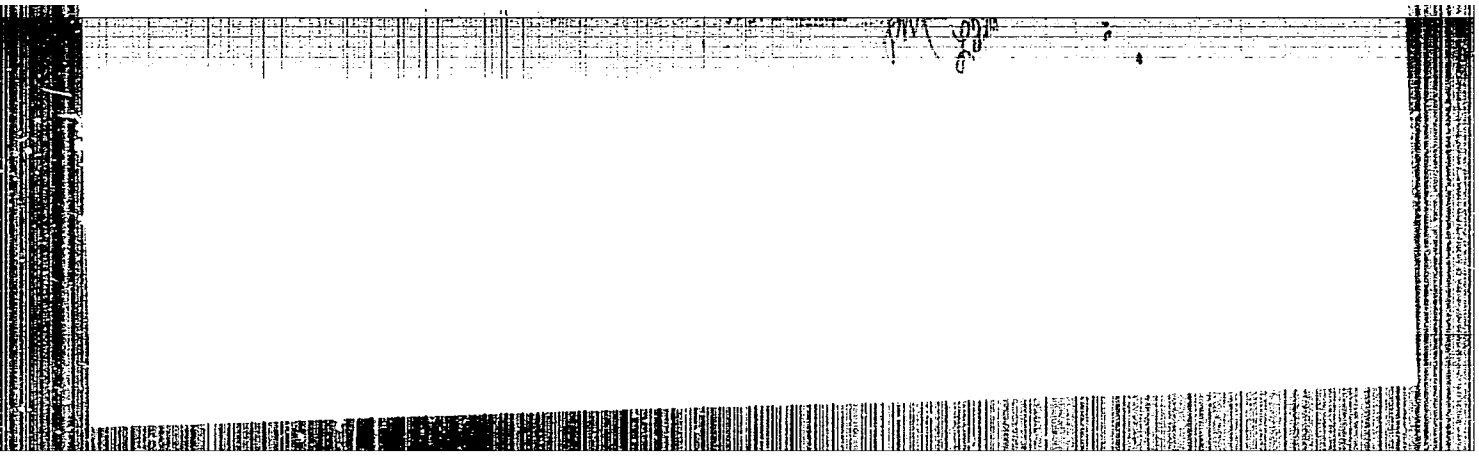

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, I.M.

Effect of moisture and texture on the change in mechanical properties of clay rocks. Trudy Lab. gidrogeol.probl. 14:222-232 '57. (MIRA 11:5)
(Clay)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, I.M.

Clays and their strength in the light of modern concepts of colloid chemistry. Trudy Lab. gidrogeol. probl. 15:26-52 '57. (MIRA 12:12)

(Clay) (Soil mechanics)

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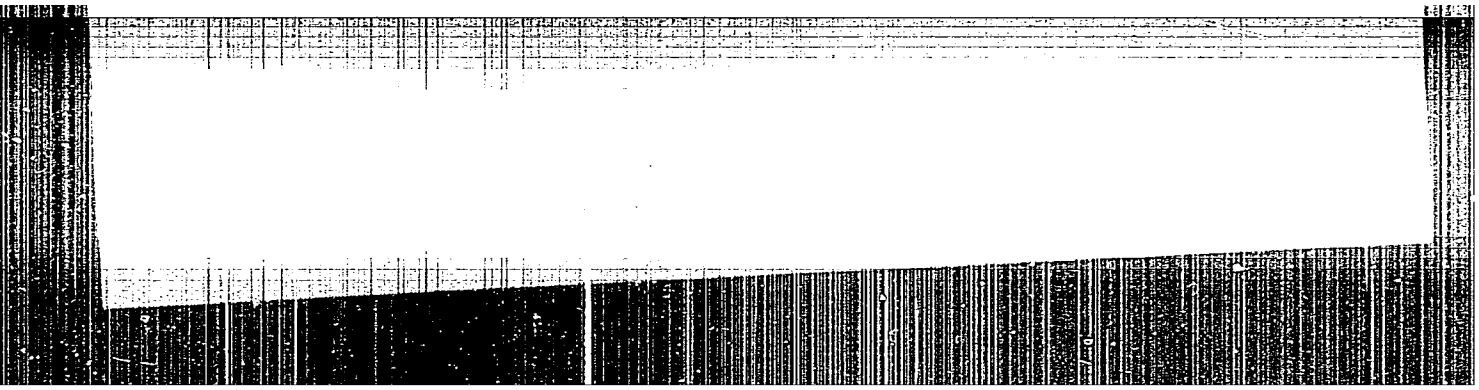

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GORKOVA, I. M.

"Structural and Mechanical Properties of Some Clay Soils."

paper distributed at the International Clay Mineralogy Congress in Brussels, Belgium' 1 - 5 Jul 58.

Comment: B-3,116,859

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

SOV-69-20-5-10/23

AUTHOR: Gor'kova, I.M.

TITLE: The Deformation Peculiarities of the Natural and Dispersed Structures of Some Clays (Deformatsionnyye osobennosti yestestvennykh i dispergatsionnykh struktur nekotorykh glinistykh porod)

PERIODICAL: Kolloidnyy zhurnal, 1958, Vol XX, Nr 5, pp 585-593 (USSR)

ABSTRACT: The structural-mechanical properties of clays of different genetic type are studied. The specimens consisted of glauconite, hydro-mica, kaolinite Jurassic and Quaternary sand-colloid clays from Moscow and Salekhard. The natural structure of the Jurassic clays is distinguished by a relative humidity of 0.40, a high yield point of $5.8 \cdot 10^5$ dyn/cm^2, a high strength of $1.9 \cdot 10^6$ dyn/cm^2, and a high elastic modulus. The coagulation structure formation in the clays is effected by the binding of particles as a consequence of the spontaneous intermittent thinning of the hydrate-ion layers [Ref. 7]. The structure of clays formed by stabilization, due to hydrate-ions and highly-stable molecular adsorption layers, cannot be regarded as coagulation structures, but as stabilized layers. The study of stabilization and coagulation structures by means of the Volarovich viscosimeter [Ref. 9] proved the difference in their deformation

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The Deformation Peculiarities of the Natural and Dispersed Structures of Some Clays

properties. There are three groups of clays: 1) Liquid-like clays of the sand-colloid quick-sand type and recent marine sediments. This group is characterized by the coincidence of the rheological curves and the curves for the dependence of the effective viscosity on the stress (Figure 4). 2) Clays with loose structure, like ancient Black Sea and Novoyevksinskiye sediments. They are characterized by large ratio between the initial viscosity and the viscosity of the destroyed structures. 3) Jurassic clays, which are the most ancient of the studied specimens. Thixotropy is only weakly developed.
There are 6 graphs, 1 table, and 9 Soviet references.

ASSOCIATION: Laboratoriya gidrogeologicheskikh problem AN SSSR imeni F.P. Savarenskogo (Laboratory of Hydrogeological Problems of the USSR Academy of Sciences imeni F.P. Savarenskiy)

SUBMITTED: December 4, 1957

1. Clays--Properties 2. Clays--Deformation 3. Clays--Structural analysis

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SOV/20-123-2-37/50

3(0)
AUTHOR: Gor'kova, I. M.

TITLE: Structure Formation in Marine Sediments (Strukturoobrazovaniye v morskikh osadkakh)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 2, pp 343-345 (USSR)

ABSTRACT: The study of the process mentioned in the title and of the alteration of the sediment properties during diagenesis is of direct interest for lithology and Engineering Geology. By such a study the muds can be adequately described, and the general rules governing the sedimentary rocks can be brought to light. The authoress uses the methods cited in references 1 and 2 to study the quantitative characteristics of the structural mechanisms and the rheological properties of the marine sediments. She has investigated the Quarternary sediments in the Black Sea and the Sea of Azov from a depth of 1.5 to 10 m below the ground surface. These sediments contain up to 65% of grains less than 0.001 mm in size, which consist of clay minerals, finely dispersed calcium carbonate, organic substances, colloidal iron compounds, and other amorphous mixtures. The bitumen content in

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these sediments is high (up to 40%). Likewise, the portion of the insoluble humin which is firmly cemented with mineralogical components is also high (up to 60%); acid humin constitutes 7-20% of this. The absorption capacity (yemkost' pogloshcheniya) varies between 9 and 23 mg of water per 100 grams of absolutely dry mud. The salt content decreases with depth, from 6-10% to 2%. The high degree of dispersion of the cemented phase and the considerable electrolyte content favor a marked hydrophilic coagulation of the organic-mineralogic materials. These form very spongy, absorptive spatial structures. The moisture content of the upper and organogenic mud horizons reaches 200-300%, calculated on the basis of absolutely dry mud. The sediments studied are typical, young, coagulation structures (Refs 1,2), which are plastificized by organic substances in varying degrees. Figures 1 and 2 show the variation of the structural-mechanical properties with depth. The uppermost horizons have practically identical fluidity, have no pronounced elastic properties, are weakly viscous, and show a weak thixotropic structural recovery. All of these properties appear in the deeper lying sediments (Refs 1,2), and can serve as indications of sediment transformation in sedimentary rocks. The rate of

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diagenetic sediment alteration always depends distinctly on their composition and facies conditions. From these investigations, it is concluded that the formation and diagenesis of the sediments studied are typical colloidal-chemical, spontaneous processes of synaeresis structure formation and of natural aging by hydrophilic organic-mineralogic, dispersed systems under the bio-geochemical conditions concerned. There are 2 figures and 2 Soviet references.

ASSOCIATION: Laboratoriya gidrogeologicheskikh problem Akademii nauk SSSR (Laboratory of Hydro-Geologic Problems of the AS USSR)

PRESENTED: June 18, 1958, by P. A. Rebinder, Academician, USSR

SUBMITTED: June 18, 1958

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

SOV/11-59-9-12/18

3(4)

AUTHOR: Popov, I.V., Gor'kova, I.M. and Kotlov, F.V.

TITLE: In Memoriam of Viktor Aleksandrovich Priklonskiy

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 9, pp 96-98 (USSR)

ABSTRACT: This is an obituary notice on Professor V.A. Priklonskiy, Corresponding Member of the AS USSR, who died on 13 February 1959. The deceased was a specialist on hydrogeology and engineering geology. He was the director of the Laboratoriya gidrogeologicheskikh problem AN SSSR (Laboratory of Hydrogeological Problems of the AS USSR).

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, I.M.; RYABICHEVA, K.N.

Study of structural and mechanical properties of some clays. Trudy Lab.gidrogeol.probl. 22:9-40 '59. (MIRA 13:4)
(Clay) (Soil mechanics)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, I.M.; DUSHKINA, N.A.; RYABICHEVA, K.N.

Structural and mechanical properties of silts of the Black Sea and their diagenetic modifications. Trudy Lab.gidrogeol.probl. 22:55-69 '59. (MIRA 13:4)
(Black Sea--Silt) (Soil mechanics)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, I.M., nauchnyy sotrudnik; KOROBANOVA, I.G., nauchnyy sotrudnik; OKNINA, N.A., nauchnyy sotrudnik; REUTOVA, N.S., nauchnyy sotrudnik; SAFOKHINA, I.A., nauchnyy sotrudnik; CHEPIK, V.F., nauchnyy sotrudnik; POPOV, I.V., doktor geol-mineral.nauk, otv.red.; SIMKINA, G.S., tekhn.red.

[Nature of stability and deformation characteristics of clay rocks in connection with conditions determining their formation and wetting] Priroda prochnosti i deformatsionnye osobennosti glinistykh porod v zavisimosti ot uslovii formirovaniia i uvlazhneniia. Moskva, Izd-vo Akad.nauk SSSR, 1961. 152 p. (Akademiia nauk SSSR. Laboratoriia gidrogeologicheskikh problem. Trudy, vol.29). (MIRA 14:6)

(Clay)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, I.M.

Quick and thixotropic properties of disperse sedimentary rocks. Koll.zhur. 23 no.1:12-19 Ja-F '61. (MIRA 17:2)

1. Laboratoriya gidregeologicheskikh problem AN SSSR, Moskva.

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

KOTLOV, F.V., kand. geol.-min. nauk, otv. red.; BEZRUK, V.M., doktor geol.-miner. nauk, red.; BELYY, L.D., doktor geol.-miner. nauk, red.; BYKOVA, V.S., kand. geol.-miner. nauk, red.; GOR'KOVA, I.M., doktor geol.-miner. nauk, red.; GUREYEV, A.M., red.; YEMEL'YANOVA, Ye.P., kand. geol.-miner. nauk, red.; KOLOMENSKIY, N.V., doktor geol.-miner. nauk, prof., red.; MAKEYEV, Z.A., doktor geol.-miner. nauk, red.; POL'SHIN, D.Ye., kand. tekhn. nauk, red.; POPOV, I.V., doktor geol.-miner.-nauk, prof., red.; PRIKLONSKIY, V.A., prof., red. [deceased]; RUBINSHTEYN, A.L., doktor geol.-miner. nauk, prof., red.; SERGEYEV, Ye.M., doktor geol.-miner. nauk, prof., red.; FADEYEV, P.I., kand. geol.-miner. nauk, red.; ZOLOTOV, P.F., red. izd-va; ASTAF'YEVA, G.A., tekhn. red.

[Materials on the engineering and geological properties of rocks and methods for their study] Inzhenerno-geologicheskie svoistva gornykh porod i metody ikh izucheniia; materialy. Moskva, Izd-vo Akad. nauk SSSR, 1962. 362 p. (MIRA 15:5)

1. Soveshchaniye po inzhenerno-geologicheskim svoistvam gornykh porod i metodam ikh izucheniya, Moscow, 1957. 2. Chlen-korrespondent Akademii nauk SSSR (for Priklonskiy). 3. Moskovskiy gosudarstvennyy universitet (for Sergeyev). 4. Laboratoriya gidrogeologicheskikh problem Akademii nauk SSSR (for Kotlov). 5. Kafedra "Osnovaniya i fundamenty" Moskovskogo instituta inzhenerov vodnogo khozyaystva (Rubinshteyn).

(Rocks) (Engineering geology)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, I.M.

Current state of the study of chalk and chalklike rocks from the point of view of engineering geology. Trudy Lab.gidrogeol. probl. 44:5-15 '62. (MIRA 15:7)

(Chalk)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, I.M.

Water-chalk relationship, sagging, relative consolidation, and consistency of chalk and chalklike rocks and the dependency of their ultimate strength on the porosity and moisture. Trudy Lab.gidrogeol.probl. 44:51-63 '62. (MIRA 15:7)
(Chalk)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, I.M.

Plastic strength, "sensitivity," thixotropy, and flowage of chalk and chalklike rocks. Trudy Lab.gidrogeol.probl. 44:64-75 '62. (MIRA 15:7)

(Chalk)

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GOR'KOVA, I.M.; DUSHKINA, N.A.

Structural-mechanical properties and deformation features of chalk and chalklike rocks. Trudy Lab.gidrogeol.probl. 44:100-114 '62. (MIRA 15:7)

(Chalk)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, I.M.

Conclusion. Trudy Lab.gidrogeol.probl. 44:115-126 '62.
(MIRA 15:7)

(Chalk)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, Irina Mikhaylovna

[Structural and deformation characteristics of sedimentary rocks of various degrees of compaction and lithification] Strukturnye i deformatsionnye osobennosti osadochnykh porod razlichnoi stepeni uplotneniia i litifikatsii. Moskva, Nauka, 1965. 126 p. (MIRA 18:5)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

ACC NR: AM7003447 Monograph UR/

Gor'kova, Irina Mikhaylovna

Theoretical principles governing the evaluation of sedimentary rock for purposes of geology engineering (Teoreticheskiye osnovy otsenki osadochnykh poros v inzhenerno-geologicheskikh tselyakh) Moscow, Izd-vo "Nauka", 66. 0135 p. illus., biblio., (At head of title: Akademiya Nauk SSSR. Gosstroy SSSR. Proizvodstvennyy i nauchno-issledovatel'skiy institut po inzhenernym izyskaniyam v stroitel'stve) Errata slip inserted. 2,000 copies printed

TOPIC TAGS: geologic survey, geology, geologic research facility, soil, civil engineering, chemical mechanics, lithology

PURPOSE AND COVERAGE: The book analyzes basic regularities established by the author, for the behavior of sedimentary formations as a function of their composition, state, and the character of their structural bonds. A classification of sedimentary rock and a set of classification characteristics are presented for evaluation for engineering geology purposes. The book is of interest to engineering geologists, specialists in the geology of sedimentary formations, lithology, mining, soil mechanics, soil science, building engineers and specialists using sedimentary rock as materials.

UDC: 552.5:624.131.1.001.11

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ACC NR: AM7003447

TABLE OF CONTENT [abridged]:

Card 2/2 SUB CODE: 08/ SUBM DATE: 19Jul66/ORIG REF: 125/OTH REF: 003

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

MAYEVSKIY, M.M.; AVDEYEVA, I.A.; ROMANENKO, Ye.A.; URAZOVA, A.P.; BONDAREVA, A.S.; TIMOFEYEVSKAYA, Ye.A.; MAZAYEVA, V.G.; GOR'KOVA, N.P.; TAYSHINA, N.M.

Aurantin and its effect on experimental tumors. Antibiotiki 4 no.4:43-46 Jl-Ag '59. (MIRA 12:11)

1. Laboratoriya eksperimental'noy bioterapii (zav. - chlen-korrespondent AMN SSSR prof.M.M.Mayevskiy) Institute eksperimental'noy patologii i terapii raka AMN SSSR.
(ANTINEOPLASTIC AGENTS pharmacol)
(ANTIBIOTICS pharmacol)

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GOR'KOVA, S.A.; DUNAYEV, V.G.; MATROSOVA, V.R.; NAUMOVA, Ye.K.; STUDENTSOVA, I.A.

Comparative characteristics of the biological and antimicrobial effect of armin and its chlorinated analogue. Nauch. trudy Kaz. gos. med. inst. 14:151-152 '64. (MIRA 18:9)

1. Kafedra mikrobiologii (zav. - dotsent S.Kh.Karimova), kafedra farmakologii (zav. - dotsent T.V.Raspopova) Kazanskogo meditsinskogo instituta i kafedra organicheskoy khimii (zav. - prof. A.I.Razumov) Kazanskogo khimiko-tekhnologicheskogo instituta.

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, V. I.

"Designing Radiation Drying Installations." Sub 11 Apr 47, Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVA, V.I.

Comprehensive list of captions used by abstract journals in the Soviet Union. NTI no.2:7-11 '63. (MIRA 16:11)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOROKHOV, P.K., kand.tekhn. nauk; GOR'KOVA, V.I., kand. tekhn. nauk; PAVLOV, L.I., kand. tekhn. nauk; SERGEYEV, N.P.; TAREYEV, B.M., doktor tekhn. nauk, prof.; SHMOTKIN, I.S.; KURBATOVA, N.S. kand. tekhn. nauk, prof., red.; CHESKIS, Z.B., red.

[French-Russian electrical engineering dictionary] Frantsuzsko-russkii elektrotekhnicheskii slovar'. Pod red. N.S.Kurbatovoi i B.M.Tareeva. Moskva, Sovetskaia entsiklopediia, 1965. 720 p. (MIRA 18:12)

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TALIPOV, Sh.T.; ABDULLAYEVA, Kh.S.; GOR'KOVAYA, G.P.

Photometric determination of small amounts of indium with bromopyrogallol red. Uzb.khim.zhur. 6 no.5:16-19 '62. (MIRA 15:12)

1. Tashkentskiy gosudarstvennyy universitet imeni V.I.Lenina.
(Indium--Analysis) (Pyrogallol red)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

TALIPOV, Sh.T.; DZHIYANBAYEVA, R.Kh.; ASAMOV, K.A.; GOR'KOVAYA, G.P.

Photocolorimetric determination of niobium. Uzb. khim. zhur. 7 no.4:18-22 '63. (MIRA 16:10)

1. Tashkentskiy gosudarstvennyy universitet imeni V.I. Lenina.

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GORKOVENKO, F.

Work the communist way. Grazhd.av. 18 no.4:25 '61. (MIRA 14:4)
(Ulan-Ude--Aeronautics, Commercial)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GORKOVENKO, N.Ye.

GORKOVENKO, N.Ye.; LENIVOV, A.D.

Automatizing individual units of a concrete plant. Avt. dor. 21 no.1: 29 Ja '58. (MIRA 11:1)
(Conveying machinery) (Automatic control) (Water supply)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

TSUKERVANIK, I.P.; GOR'KOVETS, T.G.

Acetylene condensation with chlorobenzene. Zhur.ob.khim. 25 no.5:919-921 My'55. (MLRA 8:10)

1. Institut khimii Akademii nauk Uzbekskoy SSR
(Acetylene) (Benzene)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

GOR'KOVETS, V. G.

USSR/Geological Prospecting
Iron Ores

1948

"Iron Ore Deposits of Central Asia," Kh. M. Abdullayev, A. B. Batalov, V. G. Gor'kovets, 2½ pp

"Sovet Geolog" No 29

Describes Abial deposits, located 17 km from Abail RR Station; Susingensk magnetite deposits, located around upper reaches of Ugam River; Turangly deposits, some 28 km from "Dal'verzin" Farm located near Begovata.

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000616220007-7

15-57-4-4468

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4, p 64 (USSR)

AUTHORS: Abdullayev, Kh. M., Gor'kovoy, O. P., Shmulevich, G. D.

TITLE: Composite Dikes in the Kuraminskiy Khrebet (Range) Uzbekskaya SSR /O slozhnopostroyennykh daykakh Kuraminskogo khrebta (UzSSR)/

PERIODICAL: Zap. Uzbekist. otd. Vses. mineralog. o-va, 1955, Nr 8, pp 221-229.

ABSTRACT: The author makes a detailed investigation of composite dikes in the basins of the Aktash and Chadak Rivers. The dikes cutting across the bed of the Mayli-Katan-Say, have a perfectly symmetrical structure. The central part is composed of granite porphyry, the outer zone of diabase porphyrite. The contact between the zones is locally sharp (only on the upper surface); at other places it is transitional. A thick (10 m to 12 m) composite dike, passing along the left and right borders

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Composite Dikes in the Kuraminskiy Khrebet (Cont.)

of Chadak-Say, also has a symmetrical structure and contains five zones: a central granite porphyry and lateral granophyre and diabase zones. Other composite dikes do not have the symmetrical structure. Study has shown no regularity in the variation in thickness of the different zones in a single dike. The zones clearly must have been produced from a single intrusion of magma and subsequent differentiation. The composite dikes formed by intrusion of basic magma along the contacts of earlier formed granite porphyry dikes. The slight thickness of these latter permitted strong heating during intrusion of the basic magma. As a consequence, the contacts between the granite porphyries and the diabase porphyrites are transitional, especially on the lower contact. In other examples the age relations between the rocks forming the different zones remains obscure, but the method of formation of these dikes is apparently the same.

Card 2/2 O. V. B.

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GOR'KOVOY, O.P.

ABDULLAYEV, Kh.M., akademik; ADELUNG, A.S.; VORONICH, V.A.; GOR'KOVOY, O.P.; KALABINA, M.G.; MALAKHOV, A.A.; MATSOKINA, T.M.; MIRKHODZHAYEV, I.M.; RADZHABOV, F.Sh.; TUMASHEVSKAYA, E.S., red.izd-va; GOR'KOVAYA, Z.P., tekhn.red.

[Principal features of magmatism and metallogeny in the Chatkal-Kurama mountain ranges] Osnovnye cherty magmatizma i metallogenii Chatkalo-Kuraminskikh gor. Pod obshchei red. Kh.M.Abdullaeva. Tashkent, Izd-vo Akad.nauk Uzbekskoi SSR, 1958. 288 p. (MIRA 11:7)

1. Akademiya nauk Uzbekskoy SSR (for Abdullayev)
(Chatkal Mountain Range--Mineralogy)
(Kurama Mountain Range--Mineralogy)

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