L 50980-65 EWT(1)/T/EEC(b)-2 Pi-4 IJP(c) GG

AP5011436 UR/0048/65/029/004/0546/0547

V. Kolotov

this film

generally been assumed that the break in the plots of the

versus the driving

relation in the process

In experiments

this transition may occur when $H_z < H_K \sin \theta_{max}$, where H_K is the

angular dispersion of the film. To clarify the nature of

occur in switching of films

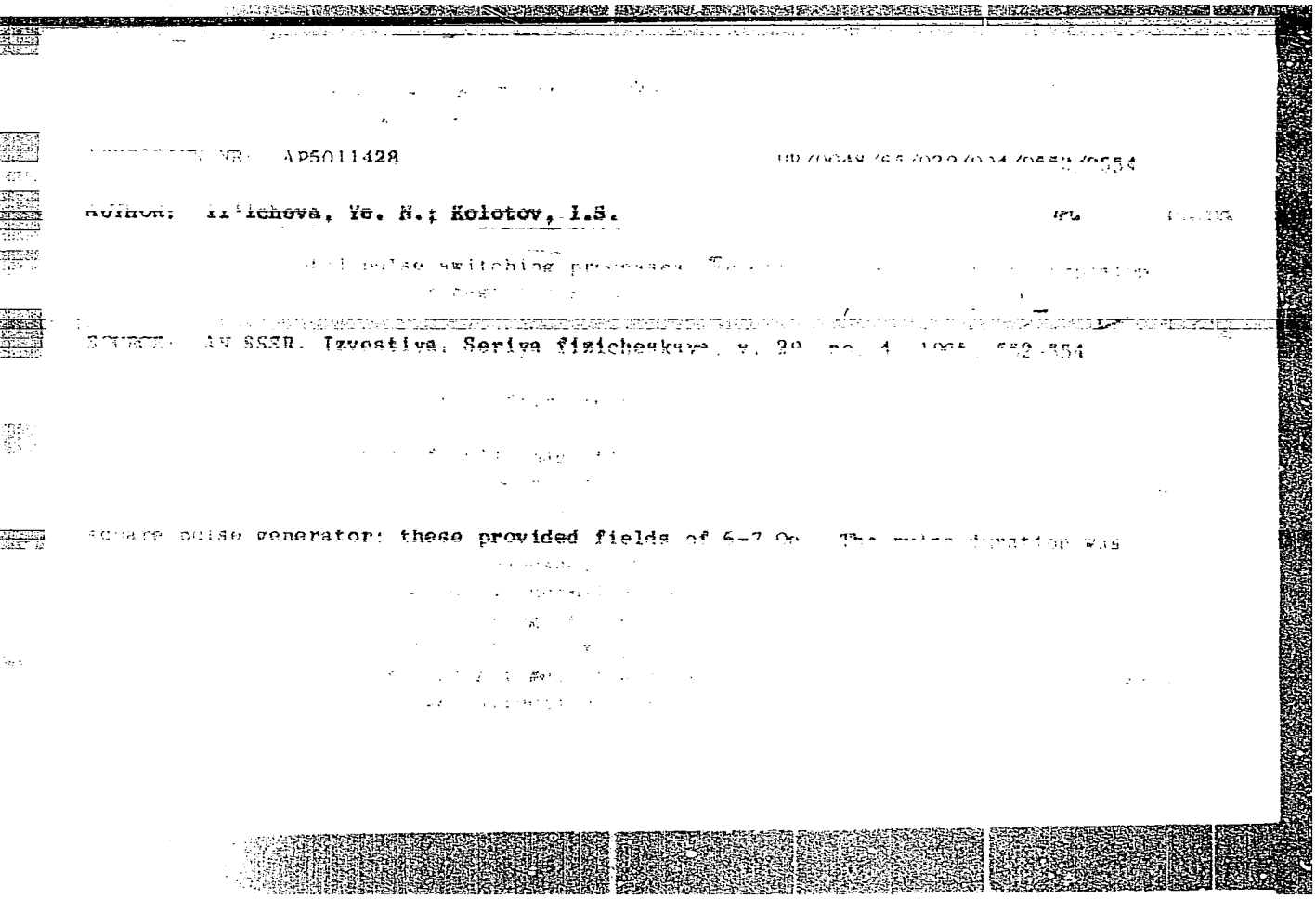
properties of the film

L 50980-65

[illegible] rotation and that this transition is realized under the [illegible] magnetization of the film is comparable with the [illegible] dispersion of the [illegible]. Orig. art. has: 1 formula and 1 figure.

ENCL: [illegible] SUB CODE: EC, EM

OTHER: 004



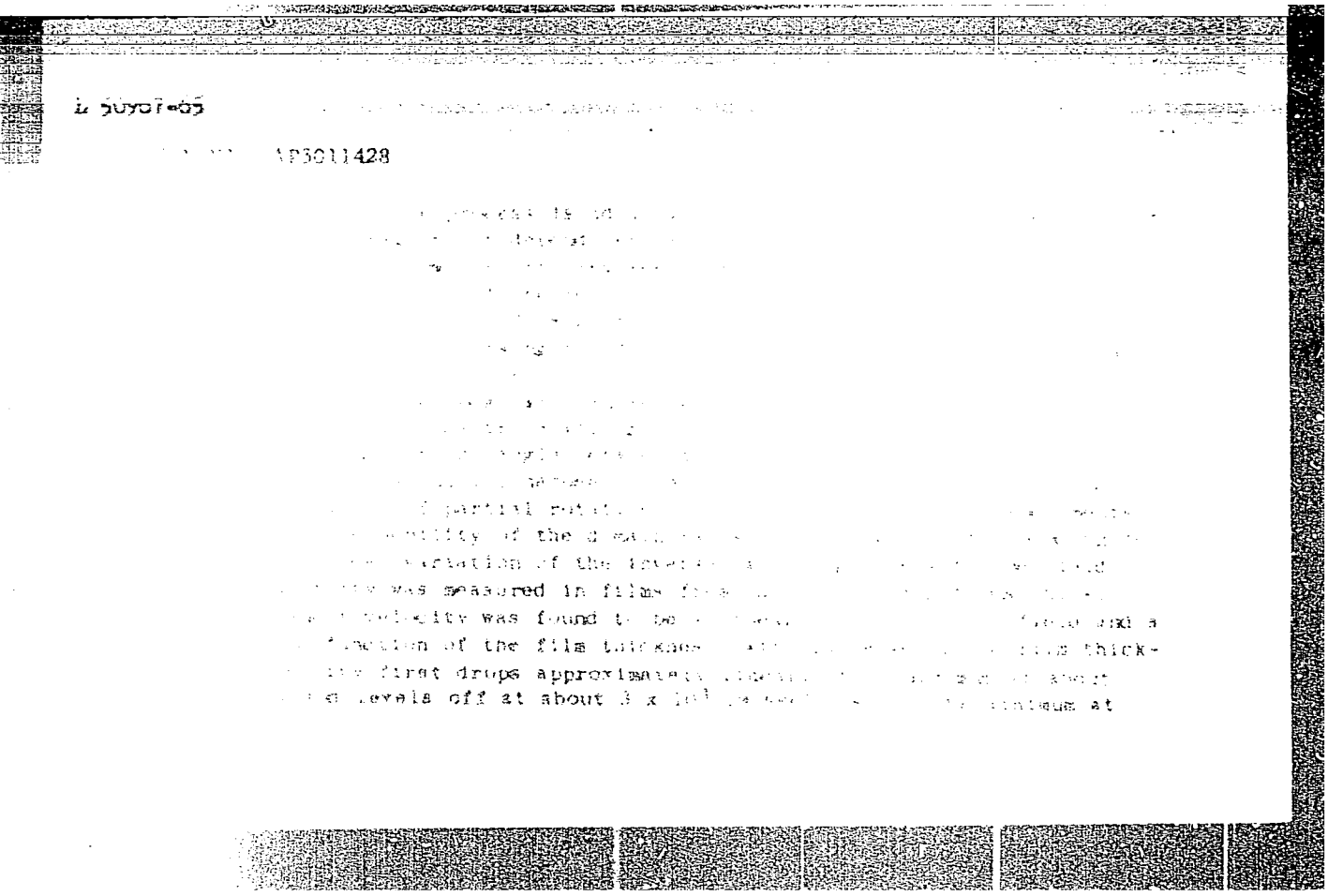
AP5011428

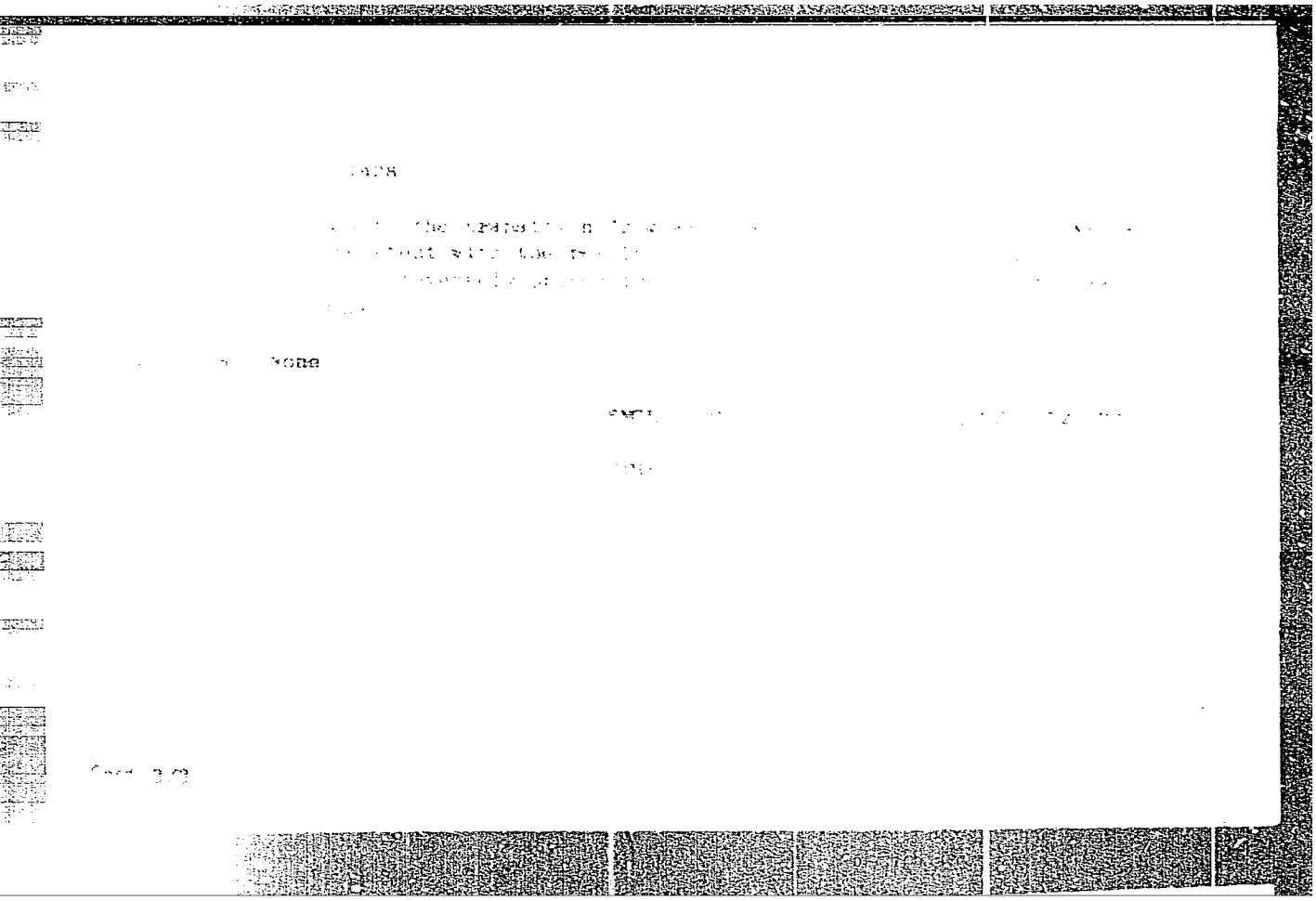
Author: Il'ichova, Ye. N.; Kolotov, I.S.

[illegible] pulse switching processes [illegible]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 4, 1965, 650-654

[illegible] pulse generator; these provided fields of 5-7 Oe. The pulse duration was





EWT(1)/EPA(s)-2/EWT(m)/EWP(1)/EWA(c)/.../EWP(b)

UR/0048/65/029/004/0597/0598

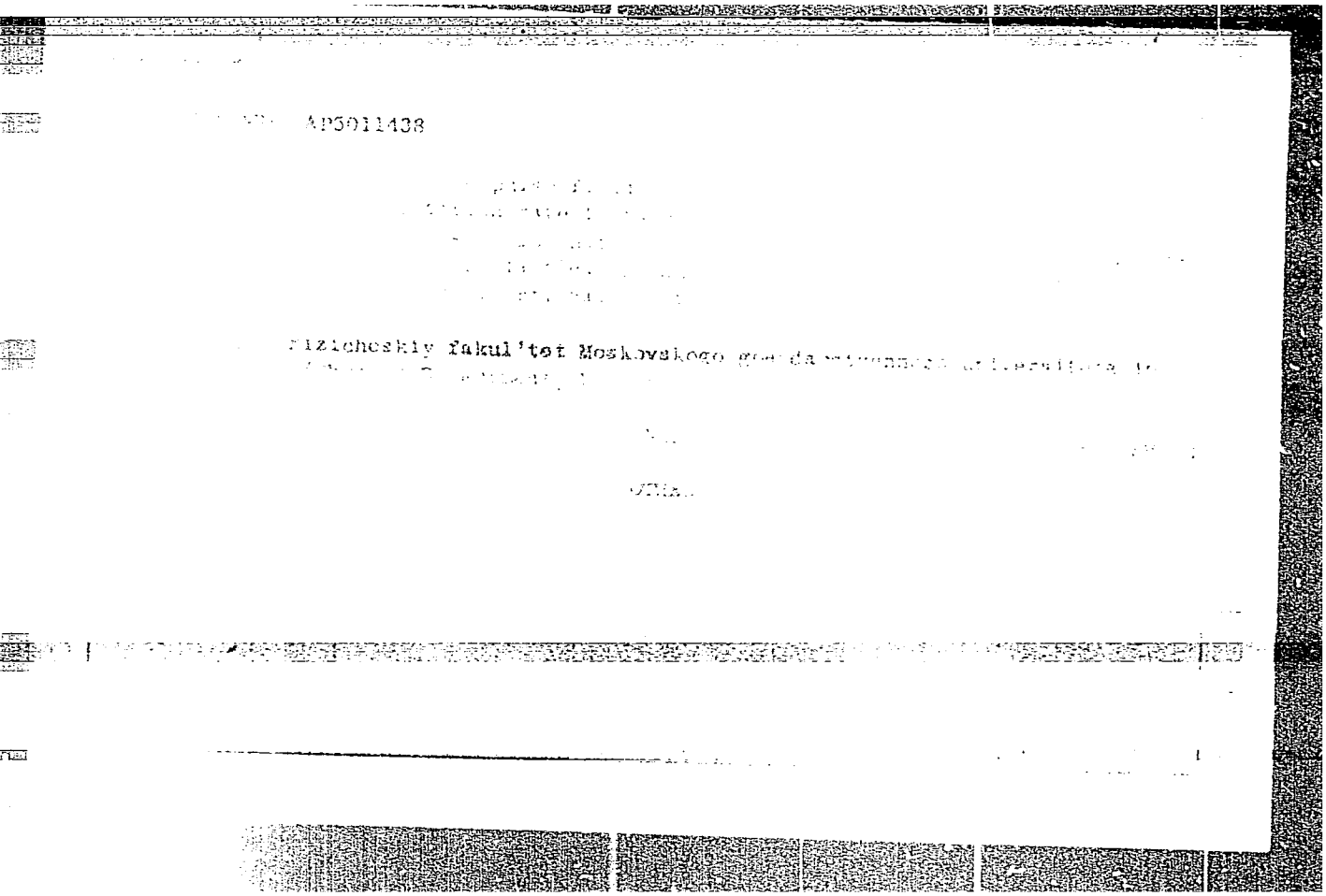
AUTHOR: Kolotov, O.S.

TITLE: Concerning measurement of the coercive force of Permalloy films by a pulse ... Second All-Union Symposium on the Physics of Thin Ferromagnetic ... 15 July 1964

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 4, 1965, 597-598

... magnetic thin film, magnet...

... describes a procedure for measuring the coercive force H_c of ... of a pulse setup that ... employed for ... of the static and ... of thin ferro- ... The procedure is based on ... of the ... To obtain reliable results ... distinguish ... corresponding to reversal ... and the ... to transition from the ... per choice ... field is important. In the ... technique, in ... case when a conventional ... measured



L 23372-66 EWT(m) IJP(c)

ACC NR: AP6014019 SOURCE CODE: UR/0120/65/000/005/0037/0039

AUTHOR: Kolotov, O. S.; Lobanov, Yu. N.; Tulinova, N. I. 39 B

ORG: Scientific Research Institute of Nuclear Physics, MGU (Nauchno-issledovatel'skiy institut yadernoy fiziki MGU)

TITLE: Production and registration of short pulses of betatron 19 injector electron current

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1965, 37-39

TOPIC TAGS: betatron, electron trapping

ABSTRACT: For the study of processes related to the trapping of electrons in the betatron cycle and the subsequent behavior of these electrons during the first turns, pulses are needed which will not interfere with the registration of the previously injected electrons. Best results can be obtained with injectors operating during a part of a full turn time-period and filling a section of the circumference of thechamber with electrons. The necessary time interval is of the order of 10^{-8} to 10^{-9} sec. There are no difficulties in producing nanosecond pulses; however, there are considerable problems present during the design of injectors which without distortion transform voltage pulses into electron current bursts. The article describes such a low-

Card 1/2 UDC: 621.384.634.3

2

L 23372-66

ACC NR: AP6014019

distortion wide-band injector with minimum parasitic influences; it presents the cross-sectional view of the injector, its power supply circuitry, the diagram showing the location of the injector and the registering probes, the circuit for interference compensation in the probe circuits, and an oscillogram showing satisfactory agreement between the injector voltage pulse and the corresponding probe current pulse. Orig. art. has: 5 figures. [JPRS]

SUB CODE: 20 / SUBM DATE: 27Jul64 / ORIG REF: 004

Card 2/2 IC

L 23871-66 EWT(m)/EWA(d)/EWP(t)/EWP(k) IJP(c) JD/WB

ACC NR: AP6008623 SOURCE CODE: UR/0365/65/001/006/0662/0669

52
AUTHORS: Makarov, V. A.; Kolotyrkin, Ya. M.; Knyazheva, V. M.; Mamin, Ye. B. 51
B

ORG: Scientific Research Physico-Chemical Institute im. L. Ya. Karpov (Nauchno-issledovatel'skiy fiziko-khimicheskiy institut)

TITLE: The extent of anode protection of metals from corrosion in corrosive media

18

SOURCE: Zashchita metallov, v. 1, no. 6, 1965, 662-669

TOPIC TAGS: electrochemistry, corrosion, corrosion protection, corrosion resistant steel/ 18-8 steel, pipeline, steel

ABSTRACT: A theoretical derivation for the depth of anodic protection offered to a metal pipe surface exposed to corrosive media is presented. The derivation is based on the assumption that the anodic polarization curve in the region of the "active loop" may be divided into a finite number of regions, for each of which the current-potential relationship may be expressed by an equation similar in form to Tafel's equation. It is also assumed that, in passive region, the current density is independent of the potential. The differential equation

$$\frac{\partial^2\varphi}{\partial x} - \frac{2\rho}{r} f(\varphi) = 0$$

is derived, where $f(\phi) = i$, i is the current, ϕ the potential on the outer surface of the pipe, r is the radius of the pipe, and ℓ the depth of anodic protection. This

Card 1/2 UDC: 620.197.5

equation is solved for various initial and boundary conditions. The calculated results are compared with experimental results of C. Edeleanu and I. Gibson (Chem. Ind., 1961, N. 10, 301) (see Fig. 1).

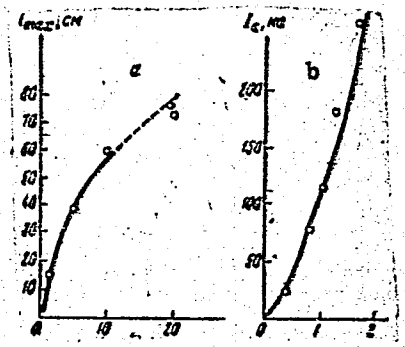


Fig. 1. Comparison of calculated and experimental data for steel 18-8 in 30% sulfuric acid. a - extent of passive region for the case of partially passivated construction; b - current from the active region of the pipe. Open circles: experimental data taken from reference cited.

It is suggested that the derived expression for the depth of anodic protection should prove useful in the development of methods for the protection of pipelines exposed to the action of corrosive media. Orig. art. has: 5 graphs and 19 equations.

SUB CODE: 07, 13/ SUBM DATE: 19Apr65/ ORIG REF: 007/ OTH REF: 009

Card 2/2 dda

EWP(k)/EWP(e)/EWP(t)/ETI IJP(c) JD/HW

ACC NR: AP6012798 SOURCE CODE: GE/0030/66/014/002/0371/0380

AUTHOR: Telesnin, R. V.; Ilicheva, E. N.; Kolotov, O. S.; Nikitina, T. N.; Pogozhev, V. A.

4/3 B

ORG: Faculty of Physics, University of Moscow

TITLE: Experimental investigation of some features of incoherent rotation in thin permalloy films [Contribution to the International Colloquium on Magnetic Thin Films held from 25 to 28 April 1966 in Jena]

SOURCE: Physica status solidi, v. 14, no. 2, 1966, 371-380

TOPIC TAGS: permalloy, metal film, incoherent rotation, magnetic domain structure, magnetic thin film

ABSTRACT: Some features of the mechanism of nonhomogenuous rotation in thin permalloy films reversed by pulse fields are investigated: switching coefficient, threshold fields, and parameters of transition to fast magnetic reversal. The behavior of the films is also investigated for fields applied along the "hard" axis. The results are compared with the static parameters of thin films: anisotropy field,

Card 1/2

Card 2/2 JS

L 38306-66 EWT(1)/EWT m)/T/EWP(t)/ETI IJP(c) JD/GG

ACC NR: AP6007361 SOURCE CODE: UR/0126/66/021/002/0314/0315

AUTHOR: Kolotov, O. S.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosuniversitet)

TITLE: Inertia in the nonuniform rotation process in thin films of permalloy

SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 2, 1966, 314-315

TOPIC TAGS: magnetic thin film, magnetic property, magnetic field measurement, permalloy, magnetic anisotropy

ABSTRACT: The effect of sharp changes in the magnetic reversal field on the magnetic reversal rate has been investigated to clarify the nature of the mechanism of nonuniform rotation in the thin permalloy films. The intensity of the magnetic field impulse was increased rapidly from 0 to H_{n1}, maintained for a certain time at this level, then raised sharply to H_{n2}. The method of producing such impulses was described by O. S. Kolotov (Dissertatsiya, MGU, 1965). The signal obtained from the films was observed by means of a stroboscopic oscilloscope. The experimental results indicate that in most calculations it is possible to ignore the time required for the rotation rate of the local magnetization vectors to be established under the influence of a rotating moment changing with time. The author wishes to express his indebtness to Prof. R. V. Telesnin for his interest in this work. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 26May65/ ORIG REF: 002 UDC: 539.216.2:538.22

Card 1/1

L 38532-66 EWT(1)/EWT(m)/T/EWP(t)/ETI LJP(c) JD/GG/GD

ACC NR: AP6007362 SOURCE CODE: UR/0126/66/021/002/0316/0317

AUTHORS: Telesnin, R. V.; Kolotov, O. S.; Pogoshev, V. A.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosuniversitet)

TITLE: Magnetic reversal of thin permalloy films at small angles with respect to the axis of easy magnetization

SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 2, 1966, 316-317

TOPIC TAGS: magnetic thin film, transverse magnetic field, magnetic property, magnetic field measurement, magnetic anisotropy, permalloy/[illegible] permalloy

ABSTRACT: The effect of the angle α between the permalloy film and the axis of easy magnetization on the angular dispersion of anisotropy has been studied on a film obtained by thermal plating with [illegible] permalloy. The parameters of the film were: anisotropic field H_k = 2.8 oe, α_{max} = 12 ± 2°. The results are summarized in Fig. 1 and are compared with those produced when transverse field $H_\perp$ is the variable. The latter, which is also presented, was discussed in a previous work by R. V. Telesnin, O. S. Kolotov, and V. A. Pogoshev (Izv. AN SSSR, ser. fiz., 1965, 29, No. 4, 546). It was established that the two variables (the inclination angle and the transverse field) are analogous in their effects in that during magnetic reversal the conversion of multidirectional to unidirectional rotation occurs following the same rules for

UDC: [illegible]

Card 1/2

L 38532-66

ACC NR: AP6027368

Fig. 1. Reciprocal of magnetic reversal time as function of the sines of angle α for different values of H_m: 1 - 4.8; 2 - 10; 3 - 15 oe.

both cases. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 27May65/ ORIG REF: 004

Card 2/2 gw

L 2541?-66 EWT(m)/EWP(e)/EWA(d)/EWP(t)/EWP(z)/EWP(b) MJW/JD

ACC NR: AP6004482 UR/0048/66/030/001/0108/0111

AUTHOR: Telesnin,R.V.; Kolotov,O.S.; Nikitina,T.N.; Pogozhev,V.A.

ORG: Physics Department, Moscow State University im. M.V.Lomonosov (Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta)

TITLE: Investigation of nonuniform rotation processes in thin Permalloy films /Transactions of the Second All-Union Symposium on the Physics of Thin Ferromagnetic Films held at Irkutsk 10 July to 15 July, 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 1, 1966, 108-111

TOPIC TAGS: ferromagnetic film, magnetic thin film, permalloy, magnetic domain structure, magnetic coercive force, magnetic anisotropy, pulsed magnetic field

ABSTRACT: The anisotropy and threshold fields of a number of 79NiA Permalloy films of thickness from 470 to 2800 Å were measured and are compared. The threshold fields were obtained by extrapolation of the linear portion of the curve giving the inverse switching time along the easy axis as a function of the switching field, and the anisotropy fields were determined from hysteresis loops or with a ferromagnetic resonance apparatus. The investigated films fell into two catagories: those which were left with a fine domain structure when a strong field along the hard axis was suddenly removed, and those which, under the same conditions broke up into a few large domains. The threshold fields of the films with the fine domain structure were considerably

Card 1/2

L 15419-66

ACC NR: AP6004482

1 4

stronger than the anisotropy fields; the threshold and anisotropy fields of the films with coarse domain structure were approximately equal. It is concluded that the increase in the threshold field in the films with fine domain structure is due to magnetostatic interactions. In order to observe the decay of magnetization following sudden removal of a saturating field along the hard axis the films were subjected to two successive magnetizing pulses with an adjustable delay between them, the increase of the longitudinal flux in the film on the rise of the second pulse was recorded. This flux increase divided by the saturation flux is the relative amount by which the magnetization has decreased during the delay between the pulses. The demagnetization was found to take place in three stages: a rapid initial stage, and intermediate stage lasting for 100 to 500 nanosec, and a slow stage lasting for several hundred μsec. In the films with coarse domain structure the process was essentially completed in the intermediate stage. In the films with fine domain structure only 1-2% of the magnetization was lost in the initial rapid stage and the slow stage was well developed. Possible reasons for this behavior are discussed. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20 SUBM DATE: 00 ORIG REF: 004 OTH REF: 006

TS

Card 2/2

L 45706-66 EWT(1)
ACC NR: AR6019072 SOURCE CODE: UR/0274/66/000/001/A073/A073

38
B

AUTHOR: Kolotov, O. S.

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron., T. I., M., Atomizdat, 1964, 158-172

TITLE: Problems in nanosecond pulse shaping by means of nonlinear amplifiers

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 1A515

TOPIC TAGS: pulse shaper, nanosecond pulse

TRANSLATION: The operating characteristics of nonlinear amplifiers (limiters) with tubes designated for nanosecond pulse shaping are considered. The transfer characteristics for a stage consisting of four GI-30 tetrodes (2 tubes) connected in parallel is established. This transfer characteristic shows that at the output of such a stage it is possible to shape a pulse with a leading edge of ~1.5 nanoseconds, amplitude of 950 volts, and a maximum scattering of 6%. This result depends upon the generation of a virtual cathode in the anode gap (screen grid). A practical scheme of a 3-stage amplifier with the output of aforesaid cascade is given. The experimental data are in close agreement with calculated data. 9 references. V. P.

SUB CODE: 09/ ~~SUBM DATE: none~~

UDC: 621.374.34

Card 1/1 ULR

ACC NR: AP7001961 SOURCE CODE: UR/0120/66/000/006/0191/0192

AUTHOR: Kolotov, O. S.

ORG: Department of Physics, MGU (Fizicheskiy fakul'tet MGU)

TITLE: Relaxation oscillators with secondary-emission tubes

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1966, 191-192

TOPIC TAGS: relaxation oscillator, secondary electron emission

ABSTRACT: In the known relaxation oscillators using secondary-emission tubes, the impulse shape has considerably differed from the rectangle (N. F. Moody et al., Electronic Engg, 1952, 24, 214; F. H. Wells, Nucleonics, 1952, 10, Apr, 28). To improve the impulse shape, the use of the flat portion of the anode-current-vs.-screen-grid-voltage curve is suggested. The elements of relaxation-oscillator circuit are so proportioned that the impulse duration is determined by a capacitor connected to the screen-grid circuit. An oscillator with a Soviet-made 6B2P secondary-emission tube developed single impulses with a rise time of 3--5 nsec and a fall time of 4--6 nsec. By connecting a length of coaxial cable to the cathode, a train of pulses was obtained (duration of each, 20--25 nsec; rise or fall time, 2.5--3 nsec). Orig. art. has: 3 figures.

SUB CODE: 09 / SUBM DATE: 29Nov65 / ORIG REF: 002 / OTH REF: 002

UDC: 621.374.2

Card 1/1

ACC NR: AP7001320

above 500 V. The scatter in the breakdown time exceeded 1 nanosec for 500 V primary pulses but was only 0.25 nanosec for approximately 1.3 kV primary pulses. It is concluded that the gap can be employed to shape approximately 1 kV nanosecond pulses at repetition rates of the order of 1 kHz. The authors thank Professor R.V.Telesin for his interest in the work. Orig. art. has: 3 figures.

SUB CODE: 20 SUBM DATE: 05Dec65 ORIG. REF: 005 OTH REF:

Card 2/2

ACC NR: AP6013518 UR/0120/66/000/002/0156/0158

AUTHOR: Kolotov, O.S.; Pogozhev, V.A.

ORG: Department of Physics, MGU (Fizicheskiy fakultet MGU)

TITLE: Strip line for the exploration of pulsed remagnetization of thin permalloy films

SOURCE: Pribory i tekhnika eksperimenta, no, 2, 1966, 156-158

TOPIC TAGS: magnetic film, magnetic film research instrument, magnetic property, magnetic alloy property, strip line magnetometer

ABSTRACT: This paper describes an improved strip line instrument for the exploration of pulsed remagnetization of thin permalloy films. The purpose is to enable easy handling of samples, to decrease spurious signals and to study the influence of the intrinsic film axes angle with the field upon remagnetization time. With reference to Fig. 1, depicting the system less its Helmholz coils effecting the return magnetization pulse, improvements include - a rectangular sensing turn I with alignment means, and an auxiliary turn, II, for the compensation of spurious signals, connected to the output coaxial cable. Furthermore, a is the insertion opening for the circular permalloy film sample, in the plexiglass plate 5 placed between the upper, 1, and the lower, 2, strips. 1 is removable for sample insertion. Spacer 3 is an insulator, spacer 4 is of brass. The system is mounted on plexiglass base 6 and is pulsed from the coaxial cable

Card 1/2 UDC: 621.317.799:539.216.22:621.318.1

ACC NR: AP6013518

7, on the reflection principle, doubling the field amplitude. The line of easy magnetization is drawn on the sample during deposition, and its orientation angle with respect to the field is read against scale A on plate 5. Tests show that the strip line can be used for the study of remagnetization processes with a duration down to 1 nsec.

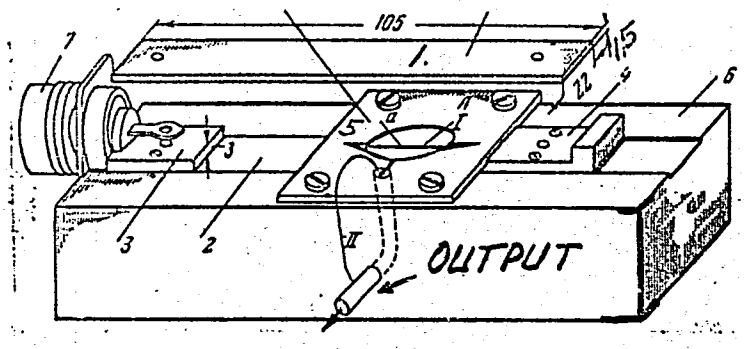


Fig. 1. Schematic of the strip line system

Authors thank R.V. Telesnin for his interest in this work. Orig.art. has 3 figures.

SUB CODE: 11,09,20/ SUBM DATE: 25May65 / ORIG REF: 004 / OTH REF: 003

Card 2/2

KOLOSOV, Stepan Mitrofanovich, professor; ALEKSANDROVSKIY, A.redaktor; ZHELEZKOVA, Ye.,tekhnicheskiy redaktor

[Auxiliary projection; descriptive geometry] Vspomogatel'noe proektirovanie; nachertatel'naia geometriia. Kiev, Gos. izd-vo lit-ry po stroit. i arkhit. USSR, 1956. 158 p. (MLRA 10:4)
(Geometry, Descriptive)

KOLOTOV, Stepan Mitrofanovich, prepodavatel'; DOL'SKIY, Yevgraf Yevgen'yevich, prepodavatel'; MIKHAYLENKO, Vsevolod Yevdokimovich, prepodavatel'; GUSEV, Nikolay Aleksandrovich, prepodavatel'; GORLENKO, Boris Sergeyevich, prepodavatel'; ANDRUSHCHENKO, V., red.; IOAKIMIS, A., tekhn.red.

[Course in descriptive geometry] Kurs nachertatel'noi geometrii. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit. USSR, 1958. 321 p. (MIRA 12:2)

1.Kiyevskiy inzhenerno-stroitel'nyy institut (for Kolotov, Dol'skiy, Mikhaylenko, Gusev, Gorlenko).

(Geometry, Descriptive)

KOLOTOV, Stepan Mitrofanovich, prof., prepodavatel'; DOL'SKIY, Yevgraf Yevgen'yevich, kand. tekhn. nauk, prepodavatel'; MIKHAYLENKO, Vsevolod Yevdokimovich, kand. tekhn. nauk; GUSEV, Nikolay Aleksandrovich, kand. arkhit., prepodavatel'; GORLENKO, Boris Sergeyevich, prepodavatel'; KOLOTOVA, Ol'ga Antonovna, prepodavatel'; BERGER, K.V., red.; SERAFIN, V.T., tekhn. red.

[Course in projective geometry] Kurs nachertatel'noi geometrii. 2. izd. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit. USSR, 1961. 313 p. (MIRA 15:1)

1. Kiyevskiy inzhenerno-stroitel'nyy institut (for all except Berger, Serafin).

(Geometry, Projective)

Kolotov V.I.

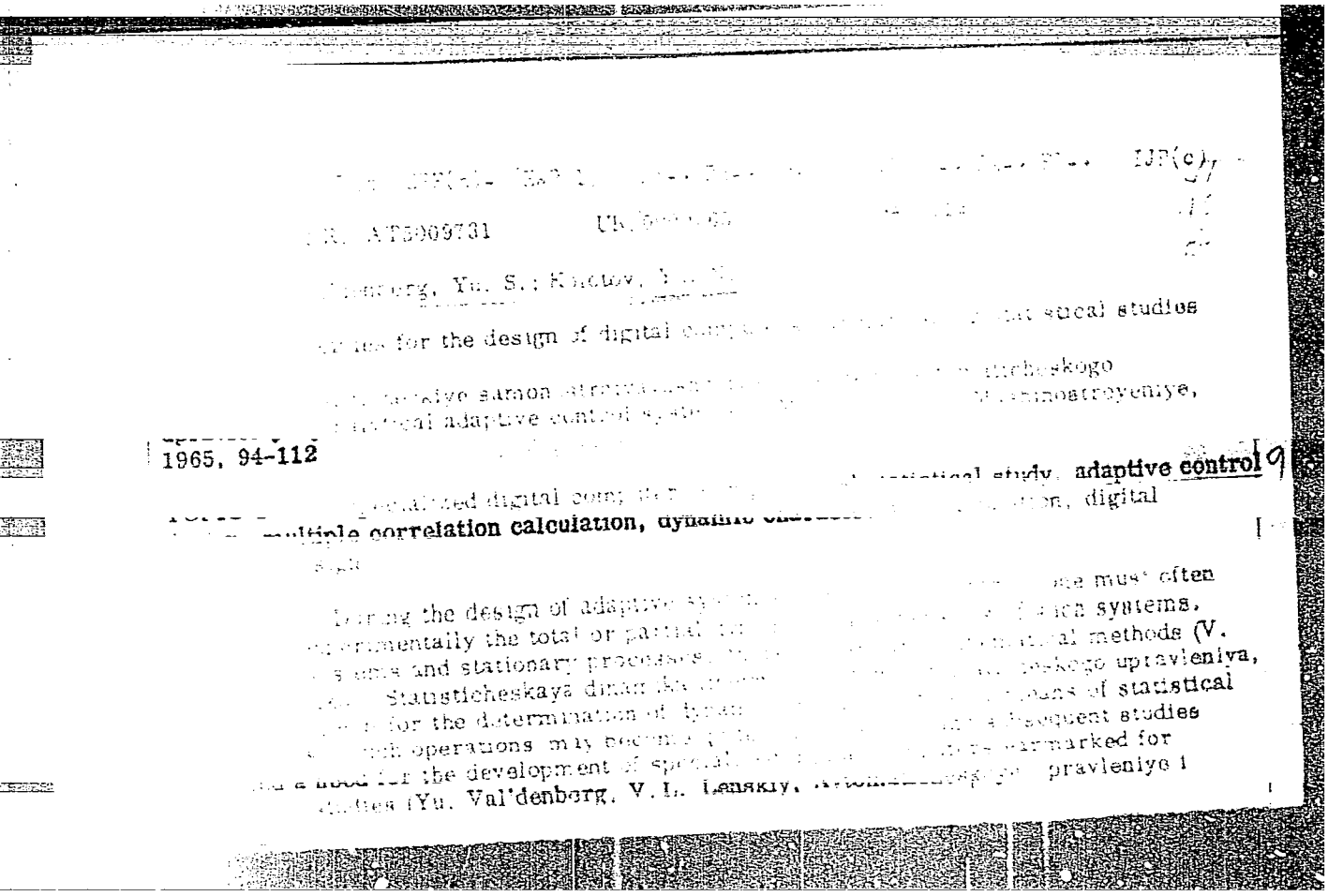
LUKANIN, Ye.A., polkovnik; CHEREDNICHENKO, V.T., polkovnik; LESNEVSKIY, S.A., polkovnik; KOLOTOV, V.I., kapitan 1 ranga; KORKESHKIN, A.P., polkovnik; FOROFONOV, I.F., podpolkovnik; ROZANOV, I.S., podpolkovnik; LISENKOV, M.M., podpolkovnik; SAPRONOV, A.T., mayor; BELASHCHENKO, T.K., mayor; SKAPENKOVA, T.N.; SOROKINA, L.D.; ZOTOV, M.M., polkovnik, red.; MYASNIKOVA, T.F., tekhn.red.

[Material for political studies; a manual for group leaders] Materialy k politicheskim zaniatiiam v pomoshch' rukovoditeliam grupp. Moskva, Voen.izd-vo M-va obor. SSSR, 1958. 199 p. (MIRA 11:5)

1. Russia (1923- U.S.S.R.) Armiya. Upravleniye propagandy i agitatsii. 2. Voyennyy otdel Gosudarstvennoy biblioteki imeni V.I.Lenina (for Skapenkova, Sorokina)
(Russia--Army--Education, Nonmilitary)

ANTONENKO, A.I., polkovnik; KOLOTOV, V.I., kapitan 1 ranga v otstavke; KURGAN, V.G., podpolkovnik, red.; VOLKOVA, V.Ye., tekhn.red.

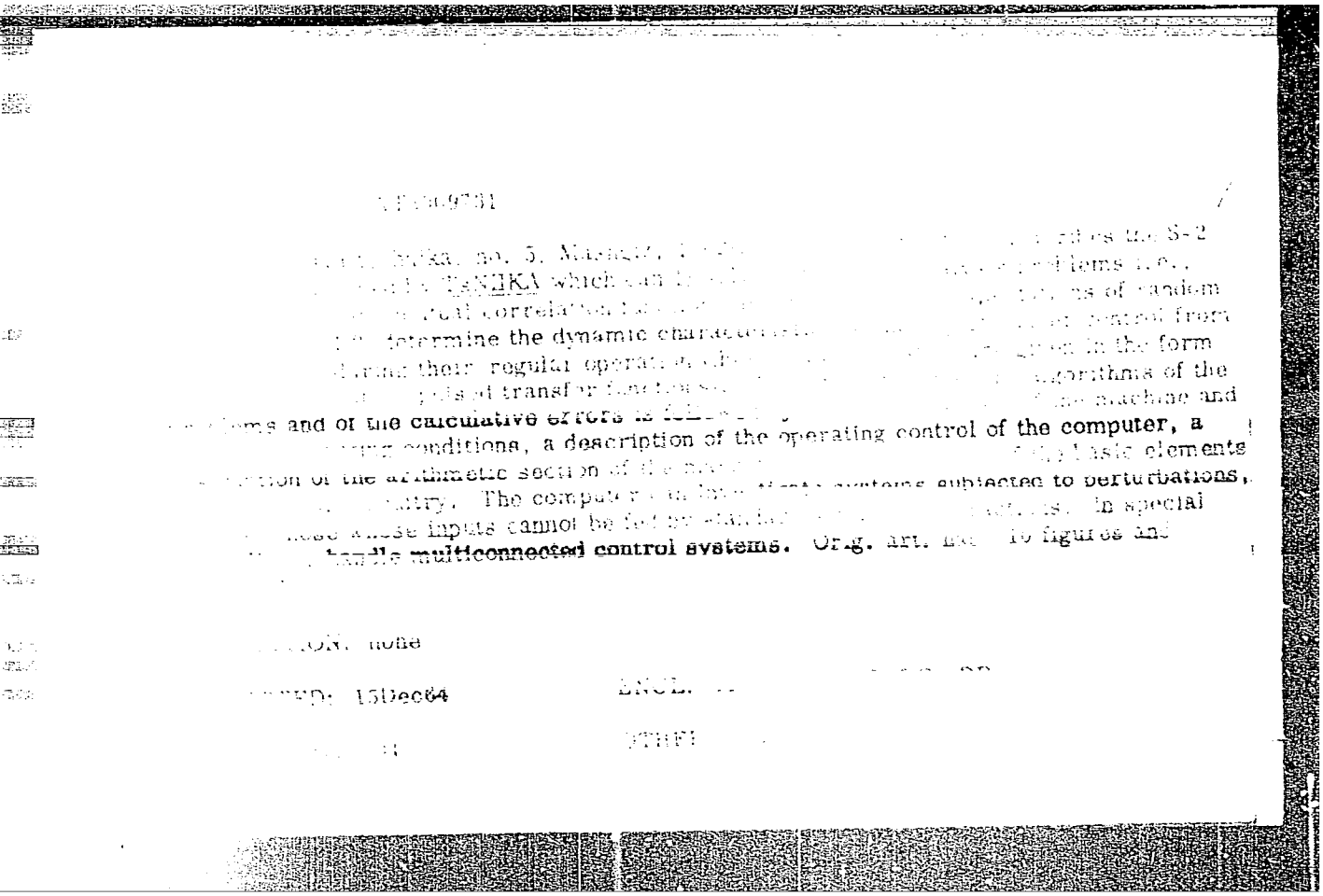
[For dynamic political indoctrination; collection of articles about experience in mass propaganda in the Soviet Army and Navy] Za boevuiu politicheskuiu agitatsiiu; sbornik statei ob opyte agitatsionno-massovoi raboty v Sovetskoi Armii i Voenno-Morskom Flote. Moskva, Voen.izd-vo M-va obor. SSSR, 1959. 239 p. (MIRA 12:7)
(Russia--Armed forces--Education, Nonmilitary)



1965, 94-112

adaptive control

multiple correlation calculation, dynamic



and of the calculative errors is
conditions, a description of the operating control of the computer, a
basic elements
multiconnected control systems.
none
15Dec64

ACCESSION NR: AT6008732

Kolotov, Yu. N.; Lenskiy, V. L.

...for the design of specialized digital ... analytical adaptive

...cheskiye samonastraivayushchiyesya ... Mashinostroyeniye,
...lytical adaptive control systems. ...

...ecialized digital computer, adaptive control design, correlation
...tion, pulsed transfer function, digital ...

... V. Solodovnikov previously pre... samonastrai-
...sistemy avtomaticheskogo upravleniya. Moscow, Izd-vo Mashinostroyeniye,
... principle for the establishment of analytical adaptive ... which is based
...olution of the integral equations

AT5009732

...ptimum pulsed transfer function ... the pulsed transfer function of th... transfer function of the correcting ... describes ... the actual realization of such a ... digital computers. ... quantitative checks of the quasi... estimates of ... for the solution of the above-mentioned ... equations using the iteration ... presentation of the calculational algorithm ... adaptation ... by a diagram describing ... the block-diagram of the unit for the determination of pulsed transfer function, and the block ... correcting section and the entire ... The computing operation ... possible simultaneous servicing ... control systems) ... Orig. art. has: 32 formulas and ...

... none

... Dec64 ENCL: 00 SUB CODE: DC

NO REF SOV: 006 OTHER: 002

KOLOTOVA, L.S., inzh.; YANOCHKIN, L.S., inzh.

Laboratory investigation of the static resistance of dumping skips when moving in skip dump tracks. Izv.vys.ucheb.zav.; gor.zhur. no.3:135-142 '58. (MIRA 12:8)

1. Karagandinskiy gornyy institut.
(Mine hoisting)

KOLOTOVA, I.S., inzh.

Investigating the dynamics of skips entering skip dump tracks.
Izv.vys.ucheb.zav.; gor.zhur. no.3:143-151 '58.
(MIRA 12:8)

1. Karagandinskiy gornyy institut.
(Mine hoisting)

KHOROSHEV, O.V., dotsent; KOLOTOVA, I.S., starshiy prepodavatel

Investigating the laws of motion of skip hoists along skip dump tracks. Izv.vys.ucheb.zav.; gor.zhur. no.5:129-142 '59. (MIRA 13:5)

1. Karagandinskiy politekhnicheskiy institut. Rekomendovana kafedroy gornoy mekhaniki.
(Hoisting machinery)

KOLOTOVA, I. S., Cand Tech Sci -- (diss) "Research into a mechanical complex of lifting equipment with self-dumping containers." Sverdlovsk, 1960. 19 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Sverdlovsk Mining Inst im Vakhrushev, V. V.); number of copies not given; price not given; (KL, 26-60, 136)

ISHCHENKO, Aleksey Vladimirovich; KLIMOV, Boris Grigor'yevich; KODYK, Grigoriy Trofimovich; KOLOTOVA, Irina Savel'yevna; KRAUS, Leonid Andreyevich; ABRAMOV, V.I., otv. red.; SABITOV, A., tekhn. red.

[Inspecting and adjusting hoists] Reviziia i naladka pod"emnykh ustanovok. By A.V.Ishchenko i dr. Moskva, Gos. nauchno-tekhn. izd-vo litry po gornomu delu, 1961. 81 p. (MIRA 14:10)
(Mine hoisting)

KOLOTOVA, L.S.; CHEKHOVSKIKH, A.M.; OSIPENKO, N.N.

Protecting hoisting systems from rope lapping in case of jamming of hoisting equipment in the headframe. Izv. vys. ucheb. zav.; gor. zhur. no.12:101-104 '61. (MIRA 16:7)

1. Karagandinskiy politekhnicheskiy institut. Rekomendovana kafedroy gornoy mekhaniki.
(Mine hoisting—Safety measures)

KOLOTOVA, I.S., kand. tekhn. nauk; ISHCHENKO, A.V., inzh.

Finding defects in the circuit of an emergency-braking switch in a hoisting assembly. Izv. vys. ucheb. zav.; gor. zhur. 6 no.9:127-132 '63. (MIRA 17:1)

1. Karagandinskiy politekhnicheskiy institut. Rekomendovana kafedroy gornoy mekhaniki.

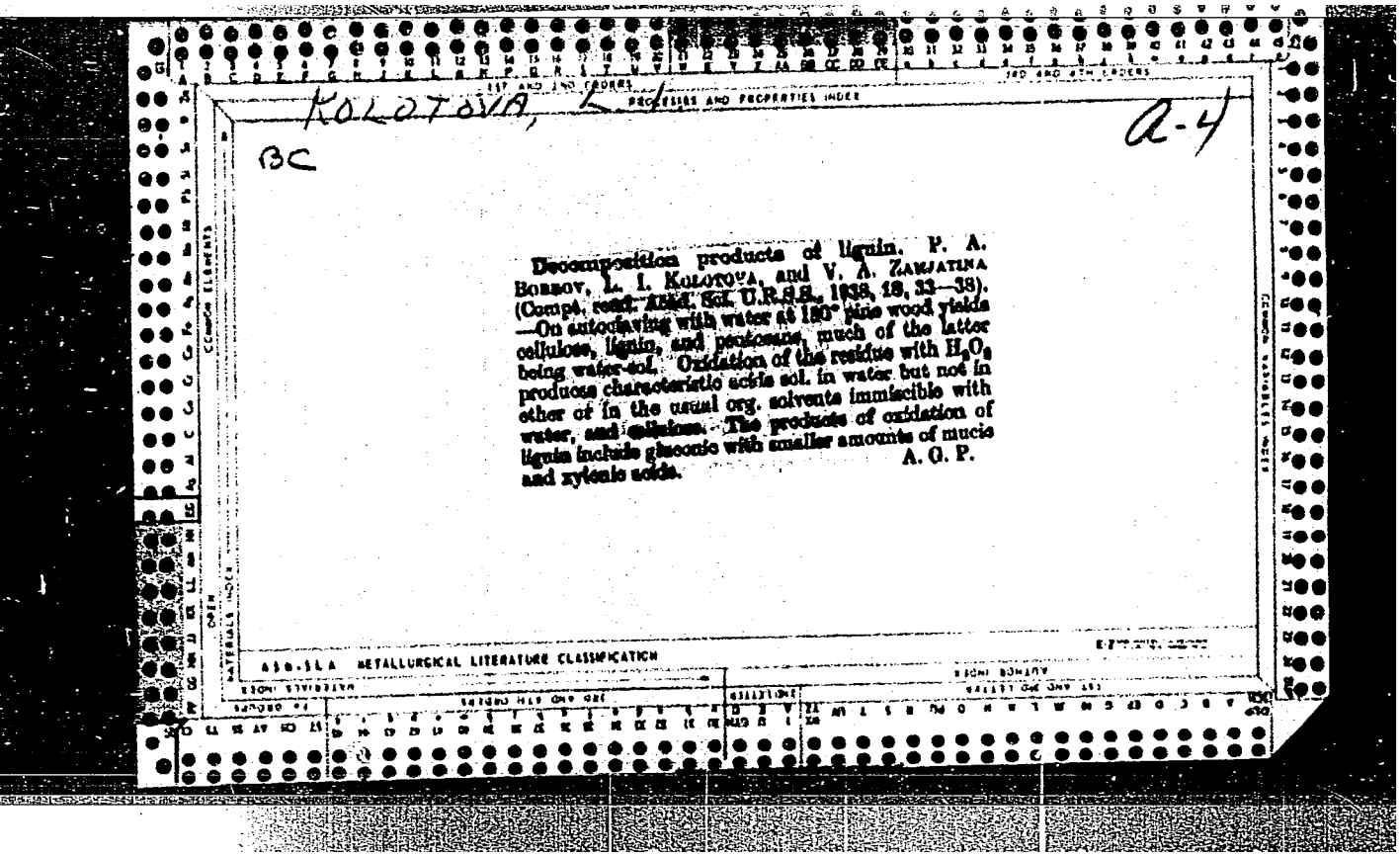
USPENSKIY, V.A.; RADCHENKO, O.A.; GLEBOVSKAYA, Ye.A.; SHISHKOVA, A.P.; MEL'TSANSKAYA, T.N.; INDENBOM, F.B.; Prinimali uchastiye: KOLOTOVA, L.F., khimik; CHAGINA, T.P., tekhnik; BASKINA, T.B., laborant; VIKULINA, M.N., laborant; POLOVNIKOVA, I.A., fizik; PETROV, A.K., tekhnik; PONOMAREV, B.P., laborant; KHYAMYALYAYNIN, L.B., laborant; KLOCHKOV, B.N., laborant; RAGINA, G.M., vedushchiy red.; SAFRONOVA, I.M., tekhn.red.

[Basic processes of the transformation of bitumens in nature and the problems of their classification] Osnovnye puti preobrazovaniia bitumov v prirode i voprosy ikh klassifikatsii. Leningrad, Gos.nauchno-tekhn.izd-vo neft.i gorno-toplivnoi lit-ry Leningr.otd-nie, 1961. 314 p. (Leningrad. Vsesoiuznyi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.185). (MIRA 15:4)

(Bitumen--Geology)

KOLOTOVA, L.F.

Studying the chemical structure of solid bitumens by infrared spectrometry. Trudy VNIGRI no.227 Geokhim.sbor. no.9:234-240 '64. (MIRA 18:1)



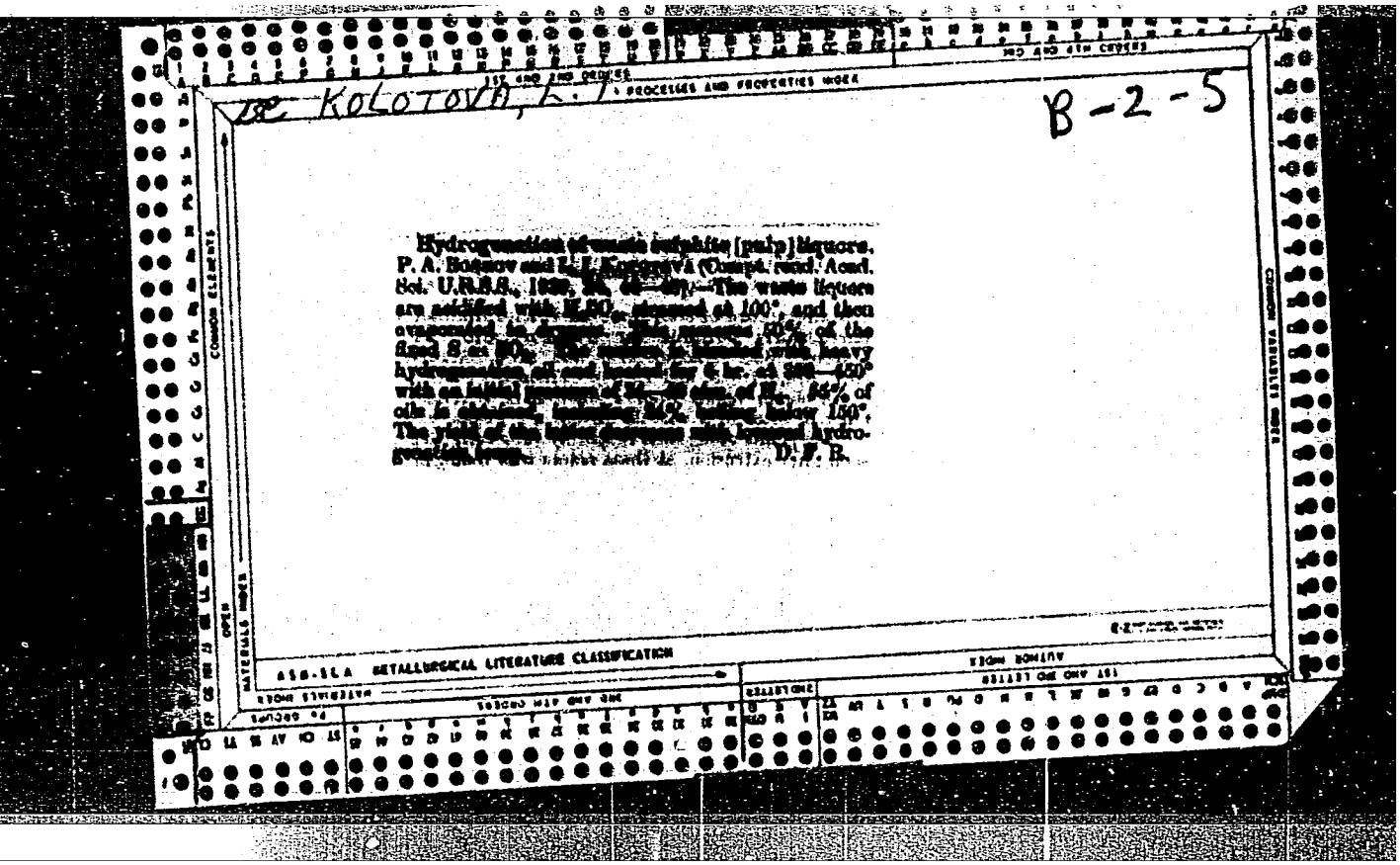
KOLOTOVA, L.

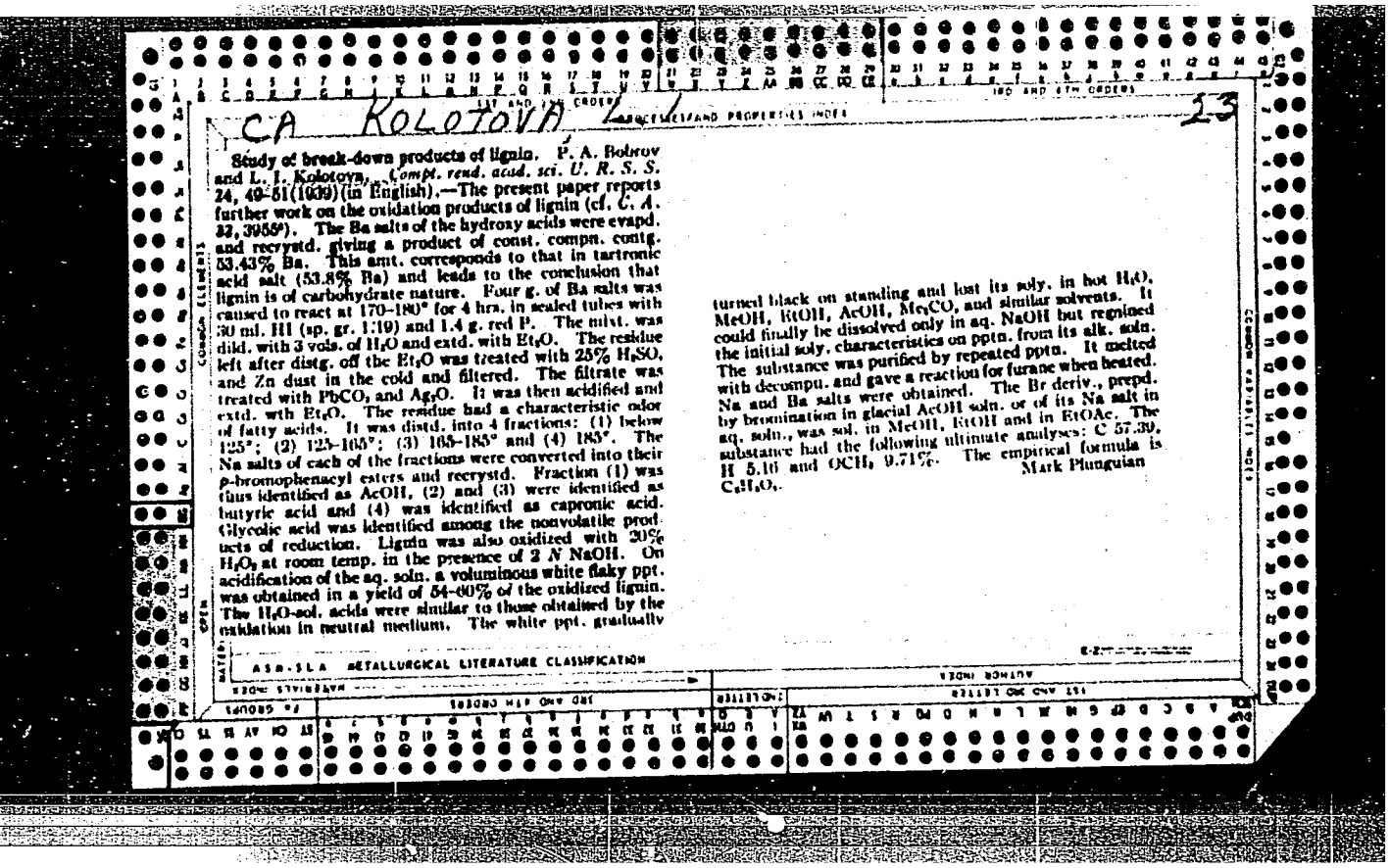
BC

A-4

Decomposition products of lignin. P. A. Borisov, L. I. Kolotova, and V. A. Zamjatina (Compt. rend. Acad. Sci. U.R.S.S., 1938, 19, 33—38). —On autoclaving with water at 180° pine wood yields cellulose, lignin, and pentosans, much of the latter being water-sol. Oxidation of the residue with H_2O_2 produces characteristic acids sol. in water but not in ether or in the usual org. solvents immiscible with water, and cellulose. The products of oxidation of lignin include gluconic with smaller amounts of mucic and xylonic acids. A. G. P.

A50-51A METALLURGICAL LITERATURE CLASSIFICATION



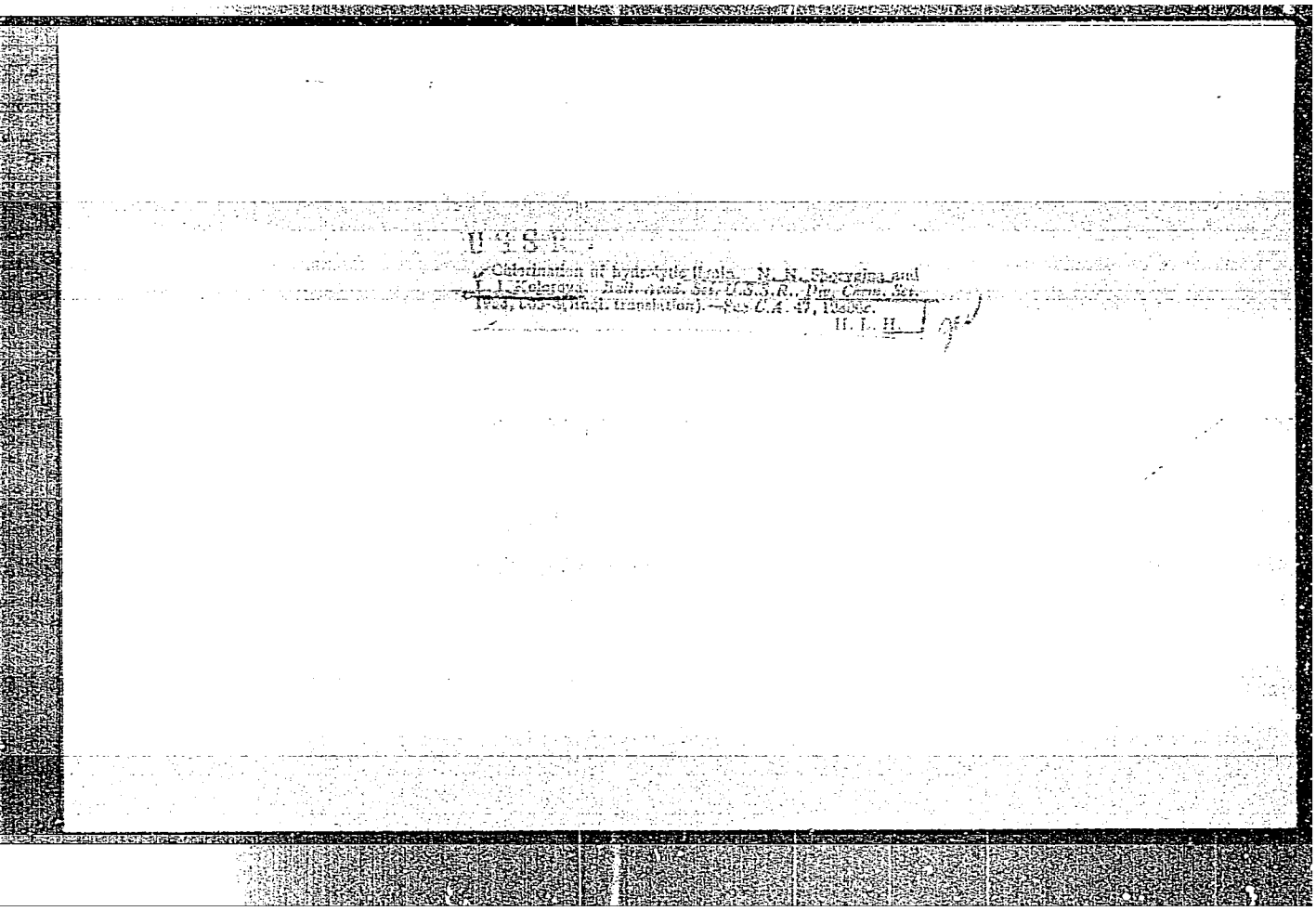


CA KOLOTOVA

13

Study of break-down products of lignin. P. A. Bolrov and L. I. Kolotova. *Compt. rend. acad. sci. U. R. S. S.* 24, 49–51(1939)(in English).—The present paper reports further work on the oxidation products of lignin (cf. *C. A.* 32, 3955⁹). The Ba salts of the hydroxy acids were evapd. and recrystd. giving a product of const. compn. contg. 53.43% Ba. This amt. corresponds to that in tartronic acid salt (53.8% Ba) and leads to the conclusion that lignin is of carbohydrate nature. Four g. of Ba salts was caused to react at 170–180° for 4 hrs. in sealed tubes with 30 ml. HI (sp. gr. 1.19) and 1.4 g. red P. The mixt. was dild. with 3 vols. of H_2O and extd. with Et_2O. The residue left after distg. off the Et_2O was treated with 25% H_2SO_4 and Zn dust in the cold and filtered. The filtrate was treated with $PbCO_3$ and Ag_2O. It was then acidified and extd. with Et_2O. The residue had a characteristic odor of fatty acids. It was distd. into 4 fractions: (1) below 125°; (2) 125–165°; (3) 165–185° and (4) 185°. The Na salts of each of the fractions were converted into their *p*-bromophenacyl esters and recrystd. Fraction (1) was thus identified as AcOH, (2) and (3) were identified as butyric acid and (4) was identified as capronic acid. Glycolic acid was identified among the nonvolatile products of reduction. Lignin was also oxidized with 20% H_2O_2 at room temp. in the presence of 2 *N* NaOH. On acidification of the aq. soln. a voluminous white flaky ppt. was obtained in a yield of 54–60% of the oxidized lignin. The H_2O-sol. acids were similar to those obtained by the oxidation in neutral medium. The white ppt. gradually turned black on standing and lost its soly. in hot H_2O, MeOH, EtOH, AcOH, Me_2CO, and similar solvents. It could finally be dissolved only in aq. NaOH but regained the initial soly. characteristics on pptn. from its alk. soln. The substance was purified by repeated pptn. It melted with decompn. and gave a reaction for furane when heated. Na and Ba salts were obtained. The Br deriv., prepd. by bromination in glacial AcOH soln. or of its Na salt in aq. soln., was sol. in MeOH, EtOH and in EtOAc. The substance had the following ultimate analyses: C 57.39, H 5.16 and OCH₃ 9.71%. The empirical formula is $C_6H_6O_3$.

Mark Plunguian

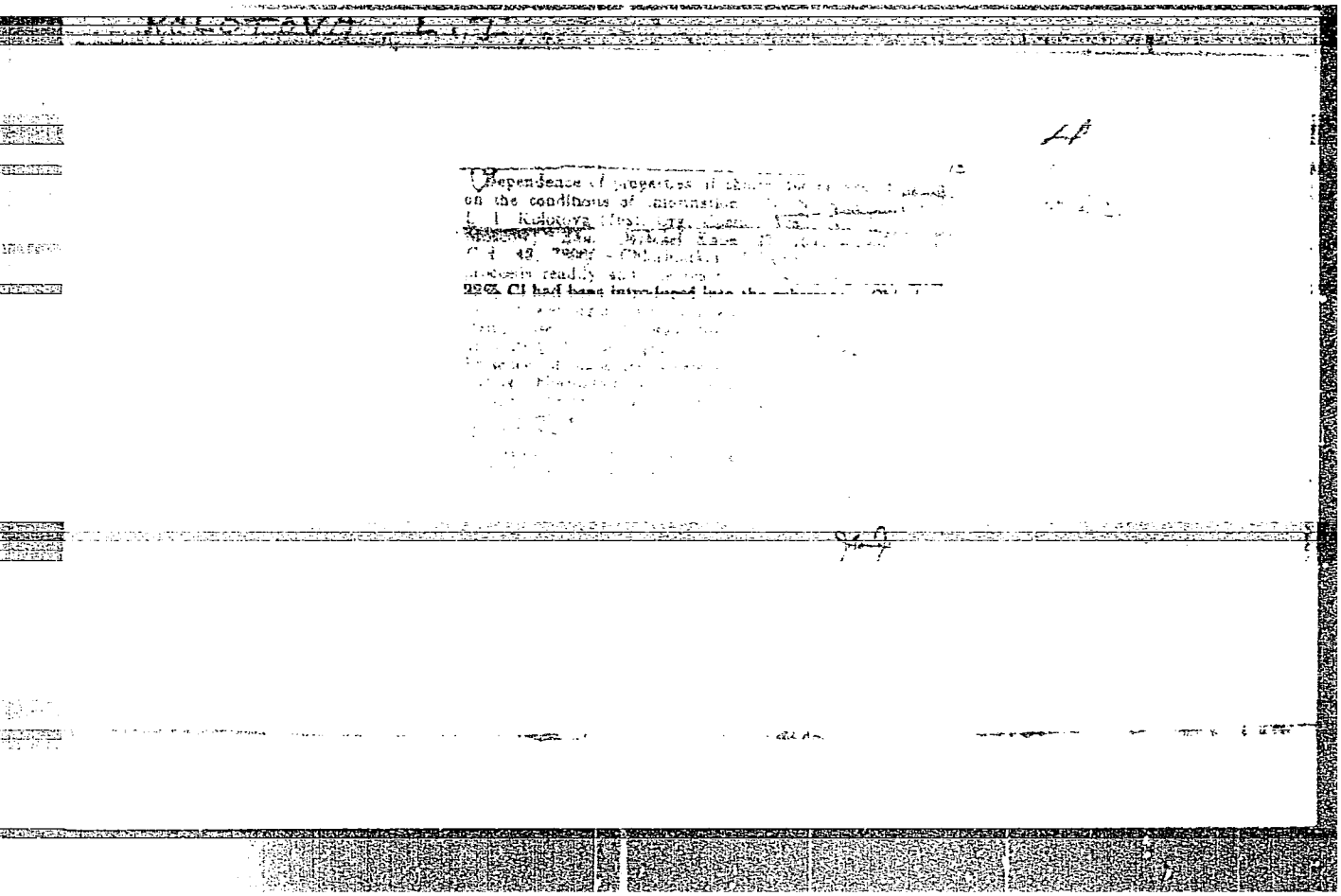


KOLOTOVA, L.I.

Chlorination of hydrolysis lignin. N. N. Shorygina and L. I. Kolotova. *Izvestia*, 1953, No. 3, 582—586).—Lignin can be chlorinated to about 30% Cl content at 20° with Cl_2 in CCl_4 or water, with considerable decrease of the MeO content, especially with Cl_2-water, but with no effect on the OH content, in contradiction of the findings of Harris *et al.* *J. Amer. chem. Soc.*, 1931, 56, 889).

R. C. Murray

Inst. Org. Chem., AS USSR



KOLOTOVA M. G.

USSR / Plant Physiology. Respiration and Metabolism. I-2

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 43718

Author : Alekperov, S. E.; Kolotova, M. G.; Mamedov, S. M.; Khrzhanovskaya, T. Ye.

Inst : AS AzerbSSR

Title : The Rate of Respiration and Activity of Catalysts in the Leaves of Certain Trees and Bushes Growing on the Saline Soils of Mil Steppe.

Orig Pub : Izv. AN AzerbSSR, 1957, No. 2, 71-78

Abstract : Experiments were set up in 1951 within the Mil Shirvan Forest Shelter Belt to study the effect of salinization on the oak (Quercus longipes), the white mulberry tree (Morus alba), the honey locust (Gleditschia triacanthos), the indigobush (Amlrpha fruticosa), Saphora japonica, the wild olive Elaeagnus angustifolia and the Siberian acacia (Caragana arborescens) growing on two plots: (1) a stongly

Card 1/2

KOLOTOVA-(PAYEVSKAYA), N. N.

Kolotova-Payevskaya, N. N. - "On visceral leishmaniasis", Vrachsb. delo, 1949, No. 4, paragraphs 325-28,

SO: U4329, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 21, 1949).

KOLOTOVA-PAEVSKAYA, N. N.

1538. **Functional Study of Erythropoiesis.** (Функциональное исследование эритропоэза)
N. N. KOLOTOVA-PAEVSKAJA. Клиническая Медицина [*Klin. Med., Mosk.*] **27**, No. 12, 34–38, Dec., 1949. 33 refs.

The hypothesis of activation of erythropoiesis by hormones originated during a period when haematologists did not know, and therefore could not appreciate, the value of sternal puncture in examination of bone marrow. Their studies were based on the increase in the quantity of erythrocytes in the peripheral blood, whereas this was merely an erythrocyte redistribution. The findings of the present authors, based on the study of bone marrow, show absence of a direct influence of hormones on erythropoiesis. They studied blood counts and bone-marrow pictures after administration of adrenaline, thyroid extract, and pituitary extract to normal subjects and patients with anaemia. It is considered that erythropoietic function cannot be assessed by the quantity of erythroblasts in the bone marrow. Reticulocyte and erythrocyte counts and determination of haemoglobin percentage in the peripheral blood can only give a relative idea of the terminal stage of erythropoiesis—that is, entry of the finished product from the bone marrow into the peripheral blood. In order to visualize erythropoiesis as a whole, a combined study must be made of the peripheral blood, the bone marrow, and the terminal products of disintegration of the erythrocytes (metabolism of pigment).

Abstracts of World Medicine
Vol 8 1950

KOLOTOVA-PAYEVSKAYA, N.N.

Pathogenesis of polycythemia and principles of its rational therapy. Klin.med., Moskva 29 no.12:62-67 Dec 51. (CIML 21:4)

1. Candidate Medical Sciences. 2. Of the Department of Clinical Hematology (Head--Prof. D.N. Yanovskiy), Ukrainian Institute of Clinical Medicine (Director--Academician N.D. Strashesko), Kiev.

KOLOTOVA, N.N.

KOLOTOVA, N.N.

"Pathogenesis of polycythemia." Terap. arkh. 26 no.2:94-95 Mr-Ap '54. (MLRA 7:8)
(ERYTHREMIA)

KOLOTOVA, Nataliya Nikolayevna

KOLOTOVA, Nataliya Nikolayevna (Kiev Order of Labor Red Banner Med Inst imeni Rogomol'ts). Academic degree of Doctor of Med Sci, based on her defense, 24 June 1955, in the Council of the Department of Clinical Med Acad Med Sci USSR, of her dissertation entitled: "About the polycytemic syndrome." For the Academic Degree of Doctor of Sciences.

SO: Byulleten' Ministerstva Vysshego Obrazovaniya SSSR, List No. 6, 17 March 1956, Decision of Higher Certification Commission Concerning Academic Degrees and Titles.

JPRS 512

BURCHINSKIY, G.I., kandidat meditsinskikh nauk; KOLOTOVA, N.N.

Unusual case of death caused by heart block in severe myocardial dystrophy. Terap.arkh. 27 no.1:81-83 '55. (MLRA 8:7)

1. Iz kafedry terapii (zaveduyushchiy - dotsent G.I.Burchinskiy) Kiyevskogo meditsinskogo stomatologicheskogo instituta.
(MYOCARDIUM, diseases,
dystrophy with heart block, fatal)
(HEART BLOCK, complications,
myocardial dystrophy, fatal)

KOLOTOVA, N.N.

Pathogenesis of polycythemic syndromes according to a thomorphological data. Probl.gemat. i perel.krovi 1 no.4:53-57 Jl-Ag '56. (MLRA 10:1)

1. Iz kafedry terapii Kiyevskogo meditsinskogo stomatologicheskogo instituta.

(POLYCYTHEMIA, etiology and pathogenesis, polymorphol. aspects (Rus))

KOLOTOVA, N.N., doktor meditsinskikh nauk; RAYZMAN, R.D.; SHUL'GA, V.I.

Rheumatic hepatitis. Vrach.delo no.5:523-525 My '57. (MLRA 10:8)

1. Kafedra terapii (zav. - dots. G.I.Burchinskiy) stomatologicheskogo fakul'teta Kiyevskogo meditsinskogo instituta i terapevticheskoye otdeleniye Pervoy podol'skoy bol'nitsy Kiyeva
(LIVER--DISEASES) (RHEUMATIC FEVER)

SOKOLOV, G.A., assistent; KOLOTOVA, N.N., doktor med.nauk

Case of a peculiar heart anomaly. Sbor.nauch.trud.Vin.der.med. inst. 18 no.2:103-109 '58. (MIRA 16:2)

1. Kafedra normal'noy anatomii (zav. kafedroy doktor med.nauk prof. V.G. Ukrainskiy) i kafedra gospital'noy terapii (zav. kafedroy doktor med.nauk N.N. Kolotova) Vinnitskogo gosudarstvennogo meditsinskogo instituta.
(HEART—ABNORMITIES AND DEFORMITIES)

KOLOTOVA, N.N., doktor med.nauk

Variety of forms of cerebral rheumatism. Vrach. delo no.1:75-77 '59. (MIRA 12:4)

1. Kafedra gospital'noy terapii (zav. - doktor med. nauk N.N. Kolotova) Vinnitskogo meditsinskogo instituta.
(RHEUMATIC FEVER) (BRAIN--DISEASES)

KOLOTOVA, N.N., prof.

Obliterating endarteritis of rheumatic fever origin. Vrach.delo no.10:1019-1022 O '59. (MIRA 13:2)

1. Kafedra gospital'noy terapii (zaveduyushchiy - doktor med.nauk N.N. Kolotova) Vinnitskogo meditsinskogo instituta.
(ARTERIES--DISEASES) (RHEUMATIC FEVER)

KOLOTOVA, N.N.; KUCHERENKO, Ye.M.; CHUBERKIS, T.P.

Indications and contraindications for Rauwolfia serpentina therapy in hypertension. Sov.med. 23 no.10:112-115 O '59. (MIRA 13:2)

1. Iz kafedry gospital'noy terapii (zaveduyushchiy - doktor med.nauk N.N. Kolotova) Vinnitskogo meditsinskogo instituta (direktor - dotsent S.I. Korkhov).
(RAUWOLFIA therapy)

KOLOTOVA, Nataliya Nikolayevna

[Polycythemia (erythremia); clinical aspects, morphology, experiment, pathogenesis, and treatment] Politsitemiia (eritremiia); klinika, morfologiia, eksperiment, patogenez, lechenie. Kiev, Gosmedizdat USSR, 1960. 219 p.

(MIRA 13:12)

(ERYTHREMIA)

KOLOTOVA, N.N., doktor med.nauk; DUBILEY, V.V., dotsent

Role of tuberculous intoxication in the development of anemia. Probl. tub. 38 no.3:25-29 '60. (MIRA 14:5)

1. Iz kafedry gospital'noy terapii (zav. - doktor meditsinskikh nauk N.N.Kolotova) Vinnitskogo meditsinskogo instituta (dir. - dotsent S.I.Korkhov).
(TUBERCULOSIS) (ANEMIA)

KOLOTOVA, N.N.; KUCHERENKO, Ye.M.; CHUBERKIS, T.P.

Possibility of a leukemogenic effect of industrial poisons. Trudy Kiev. nauch.-issl. inst. perel. krovi i neotlozh. khir. 3:243-247 '61.
(MIRA 17:10)

1. Kafedra gospital'noy terapii Vinnitskogo gosudarstvennogo meditsinskogo instituta.

KOLOTOVA, N.N., prof.; SOROCHINSKAYA, A.I.

Rheumatic vasculitis with chiefly cutaneous localization.
Vest.derm.i ven. no.8:45-50 '62. (MIRA 15:9)

1. Iz kafedry gospital'noy terapii Vinnitskogo meditsinskogo instituta (zav. - prof. N.N. Kolotova; dir. - dotsent S.I. Korkhov).
(RHEUMATIC FEVER) (SKIN--DISEASES)
(BLOOD VESSELS--DISEASES)

BURCHINSKIY, G.I., polkovnik med.sluzhby; KOLOTOVA, N.N.; PORSHCHARUK, Ye.V.

Some changes in the digestive organs of ulcer patients. Sbor. nauch.trud.Kiev.okruzh.voen.gosp. no.4:138-152 '62. (MIRA 16:5)

(DIGESTIVE ORGANS—ULCERS)

KOLOTOVA, N.N.; VOYTYUK, V.M.

Transplantation of bone marrow in the treatment of bone marrow hypoplesia. Vrach. delo no.6:123-124 Je'63. (MIRA 16:9)

1. Kafedra gospital'noy terapii (zav. - prof. N.N.Kolotova) Vinnitskogo meditsinskogo instituta.
(MARROW--DISEASES) (MARROW--TRANSPLANTATION)

KOLOTOV, Stepan Mitrofanovich, prof., prepodavatel'; DOL'SKIY, Yevgraf Yevgen'yevich, kand. tekhn. nauk, prepodavatel'; MIKHAYLENKO, Vsevolod Yevdokimovich, kand. tekhn. nauk; GUSEV, Nikolay Aleksandrovich, kand. arkhit., prepodavatel'; GORLENKO, Boris Sergeyevich, prepodavatel'; KOLOTOVA, Ol'ga Antonovna, prepodavatel'; BERGER, K.V., red.; SERAFIN, V.T., tekhn. red.

[Course in projective geometry] Kurs nachertatel'noi geometrii. 2. izd. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit. USSR, 1961. 313 p. (MIRA 15:1)

1. Kiyevskiy inzhenerno-stroitel'nyy institut (for all except Berger, Serafin).

(Geometry, Projective)

GIL', L.T.; KOLOTOVA, T.A.

Antigenic properties of the vitreous body. Vest.oft. no.1:68-71 '62. (MIRA 15:11)

1. Kafedra glaznykh bolezney (zav. - prof. A.B. Katsnel'son) i kafedra patologicheskoy fiziologii - (zav. - prof. R.A. Dymshits) Chelyabinskogo meditsinskogo instituta.
(VITREOUS HUMOR) (ANTIGENS AND ANTIBODIES)

KOLOTOVA, Ye.A.

3(4) PHASE I BOOK EXPLOITATION SOV/1835

Akademiya nauk SSSR. Laboratoriya aerometodov

Trudy, t. 6 (Transactions of the Laboratory of Aerial Methods, USSR Academy of Sciences, Vol 6) Moscow, Izd-vo AN SSSR, 1958. 280 p. Errata slip inserted. 1,500 copies printed.

Resp. Ed.: V.P. Miroshnichenko, Candidate of Geological and Mineralogical Sciences; Ed. of publishing House: D.N. Kudritskiy; Tech. Ed.: E.Yu. Bleykh.

PURPOSE: This volume is intended for geologists, photo interpreters, or other personnel engaged in the study of landscape formations, especially from the standpoint of aerial photography.

COVERAGE: This collection of studies and brief articles treats problems in aerial photography and photo interpretation in relation to geological phenomena. The geographical area of study, with minor exceptions, is the Caspian plains and western shore. Most of the studies are well illustrated with aerial photographs. Aside from the numerous articles on geological phenomena of the Caspian basin, the following are also covered: portions of the Russian platform, the Muyunkumy sands of Central Kazakhstan, photo interpretation of clayey flats, desert vegetation and tree cover, the effective lens speed of photographic objectives, photogrammetric determination of profiles on hydro technical models, and others. No personalities are mentioned. References follow each main article.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress

Card 6/6

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S/044/62/000/002/067/092
C111/C222

AUTHOR: Kolotova, Ye. A.

TITLE: The solution of normal equations by successive approximations and considerations on convergence acceleration

PERIODICAL: Referativnyy zhurnal, Matematika, no. 2, 1962, 47, abstract 2V266. ("Sb. nauchn. tr. Krivorozhsk. gornorudn. in-t", 1961, vyp. 10, 163-194)

TEXT: Questions related to the solution of a large number of normal equations by successive approximations are considered. The theory of the solution is presented in the form of a matrix. In order to attain a greater speed of convergence, the corresponding diagonal matrices are first inverted. An additional acceleration of convergence is attained by previously calculating the final value of the sought quantity according to the rule of geometric series. A generalization method of simple iteration and the iteration by Seidel is described, which gives a faster convergence than the usual methods. The theory of successive and Gauss approximations with the determination of inverse matrices is considered. General calculation formulas are given

Card 1/2

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C111/C222

The solution of normal equations ...

for the inversion of matrices by the elimination of unknowns according to Gauss. As an example, a system of 38 normal equations is solved according to the Seidel method.

[Abstracter's note: Complete translation.]

Card 2/2

KOLOTOVA, Ye.A., kand.tekhn.nauk

Graphic determination of the coefficients of indirect conditional equations for subsequent adjusting of nets of combinations of triangular and quadrilaterial cells. Sbor. nauch. trud. KGRI no.7:215-224 '59. (MIRA 16:9)

(Surveying)

KOLOTOVA, Ye.A., kand. tekhn. nauk

Deducing a formula for the preliminary calculation of the distance between elevation control points for a survey mapped at a scale of 1:100,000. Sbor. nauch. trud. KGRI no.10:151-162 '61 (MIRA 17:8)

Solving normal equations by means of successive approximations and considerations on the improvement of convergence. Ibid.:163-194

5(2)
AUTHORS: Vol'nov, I. I., Kolotova, Ye. I. SOV/78-4-9-34/44

TITLE: The Solubility Isotherm -20° of the System Na_2SO_4 - H_2O_2 - H_2O

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 9, pp 2143-2145 (USSR)

ABSTRACT: It was the objective of the investigation to determine to what extent crystal water can be replaced by H_2O_2. Reference is made to previous publications dealing with this subject (Refs 1-10), inter alia to the paper by M. I. Ozerova (Ref 8). The results are given in table 1 and in the phase triangle given in figure 1. The isotherm for -20° could be found in the H_2O_2 concentration range of 12 - 82 % by weight only, since aqueous H_2O_2 solutions with values below and above the values forementioned freeze at -20°. Beside the known hydrates $Na_2SO_4 \cdot 10H_2O$ and $Na_2SO_4 \cdot 4H_2O$ two chemical compounds with crystalline H_2O_2 were found: The already known compound $Na_2SO_4 \cdot 0.5H_2O_2 \cdot H_2O$ and the compound $Na_2SO_4 \cdot 3H_2O_2$, which was prepared for the first time and whose thermogram is given in figure 2. A comparison of the data found in the

Card 1/2

The Solubility Isotherm -20° of the System $Na_2SO_4 - H_2O_2 - H_2O$ SOV/78-4-9-34/44

relevant publications and those found by the authors suggests that the abovementioned system has to be investigated over a wide range of temperatures in order to clarify the laws governing the replacement of crystal water by H_2O_2 and to find the range in which these compounds can be formed. There are 2 figures, 1 table, and 12 references, 1 of which is Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences, USSR)

SUBMITTED: June 12, 1958

Card 2/2

ZHURAVLEV, S.I., inzhener; KHAZOVSKIY, I.L., inzhener; KOLOTOVCHENKOV, M.N., tekhnik.

Eliminating dust formation in fuel feeding. Energetik 4 no.6: 12-13 Je '56. (MLRA 9:8)
(Coal-handling machinery)

YEFREMOV, K.A.; KOLOTOVKIN, L.D.

Sources of gas liberation in Kuznetsk Basin mines during the use of the long pillar system along the strike. Nauch. soob. VostNII no.3:48-56 '63. (MIRA 17:5)

KOLOTOVKINA, V.D.

Country : USSR
Category : Microbiology. Antibiosis and Symbiosis. Antibiotics.

Abs. Jour : Ref Zhur-Biol., No 23, 1958, No 105747

Author : Lebedova, T. B.; Kolotovkina, V. D.
Institut. : Moscow Technological Institute of the Food Industry
Title : The Effect of Phytoncides and of Soviet Gramicidin on the Microflora of the Wheat Grain

Orig Pub. : Sb. n.-i. stud. rabot Mosk. tekhnol. in-ta pishch. prom-sti, 1953-1954 (1955), No 1, 9-16
Abstract : No abstract.

Card: 1/1

F-33

KOLOTOVKINA, Mikhail Isidorovich [Kolotovkha, M.S.]; MASLYUK, Petr Sergeyevich; REBRIK, Ya.P., red.; CHEREVATSKIY, S.A. [Cherevats'kyi, S.A.], tekhn.red.

[Make the experience of vegetable grower Z.V.Vorovei available to all collective farms] Dosvid ovochevoda Z.V.Voroveia usim kolhospam. Kyiv, Derzh.vyd-vo sil'hosp.lit-ry URSR, 1960. 29 p. (MIRA 14:1)

(Vegetable gardening)

KOLOTUKHA, M. I.

FAVOROV, Aleksey Mikhaylovich [Favorov, O.M.]; KOLOTUKHA, Mikhail Sidorovich, agronom; MARTYNYUK, D.M.[Martynyuk, D.M.], otv. red.; FAL'KO, Yu.G.[Fal'ko, IU.H.], red.; MATVIICHUK, O.A., tekhn. red.

[Practices of growing potatoes in the Ukraine] Dosvid vyroshchuvannia kartopli na Ukraini. Kyiv, 1961. 42 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.5, no.23) (MIRA 15:2)

1. Chlen-korrespondent Akademii nauk USSR (for Kolotukha).
(Ukraine--Potatoes)

KOLOTUKHIN, A.T.; MULIN, Ye.V.

Current density distribution and voltage drop along the height of the anode in a vertical chlorine bath with a diaphragm. Khim. prom. no.5:395-399 Jl-Ag '60. (MIRA 13:9)
(Electrolysis) (Electric currents)

MULIN, Ye.V.; KOLOTUKHIN, A.T.

Gas-filled solutions in a vertical chlorine bath with a filtering diaphragm. Khim.prom. no.8:652-656 D '60. (MIRA 13:12)
(Electrolysis) (Gases)

KOLOTUKHIN, A.T.; MULIN, Ye.V.

Current efficiency and voltage in a diaphragm-type bath of considerable height. Khim.prom. no.5:313-316 My '61. (MIRA 14:6)
(Chlorine)
(Electrolysis—Equipment and supplies)

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

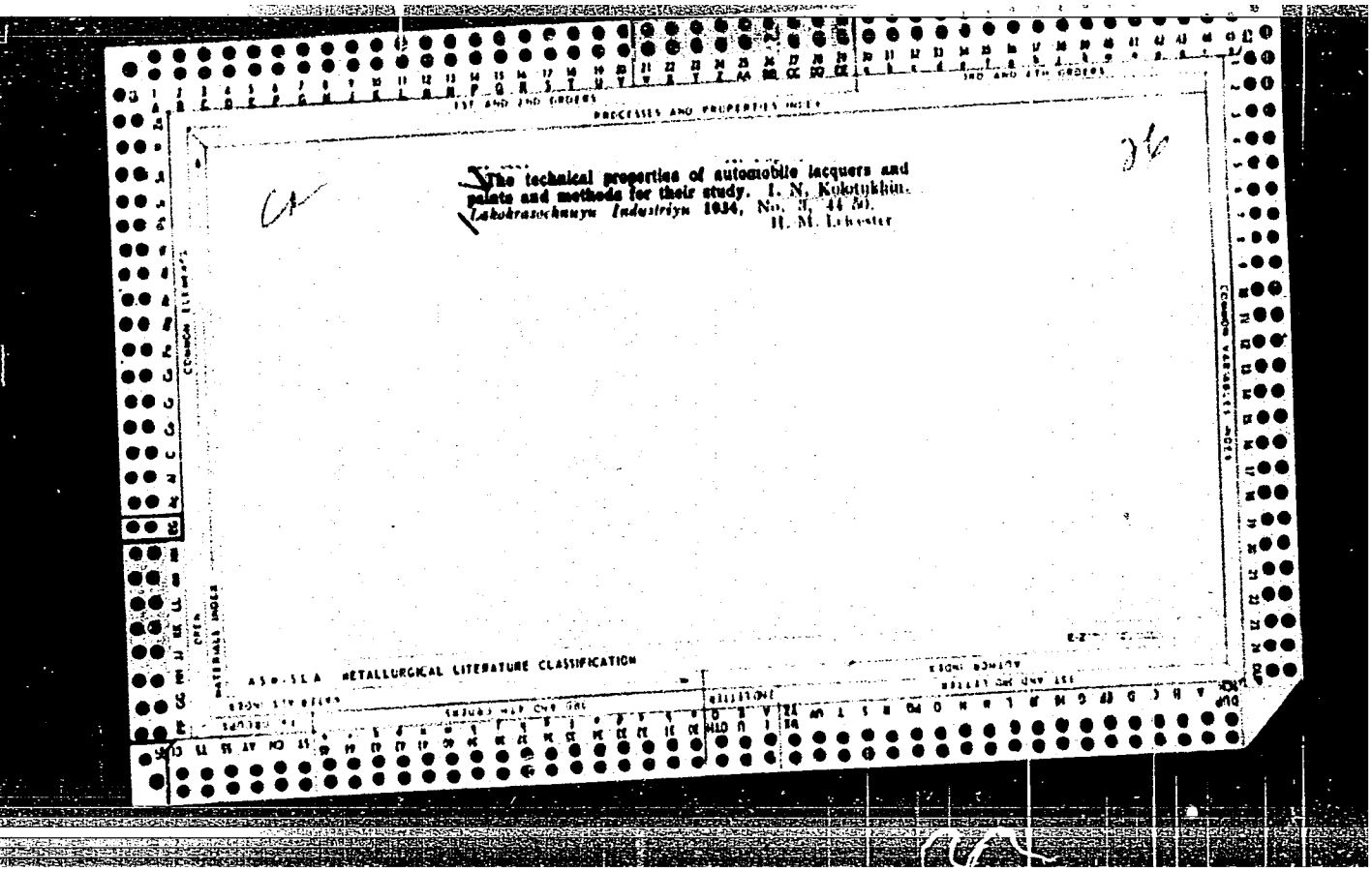
3RD AND 4TH ORDERS

9

Artificial pumice stone. I. Kokotuchin, Mushkarev and Emelyanov. *Malyarnoe Delo* 1932, No. 4, 30; *Chem. Zentr.* 1932, II, 2704. A paste is made by mixing 0.67 parts clay, 10.67 kaolin, 20 feldspar, 0.08 washed chalk, and 80 water, and 0.04 parts of this mixt. mixed with 64.25 quartz sand and 20.11 water. The mass is poured into

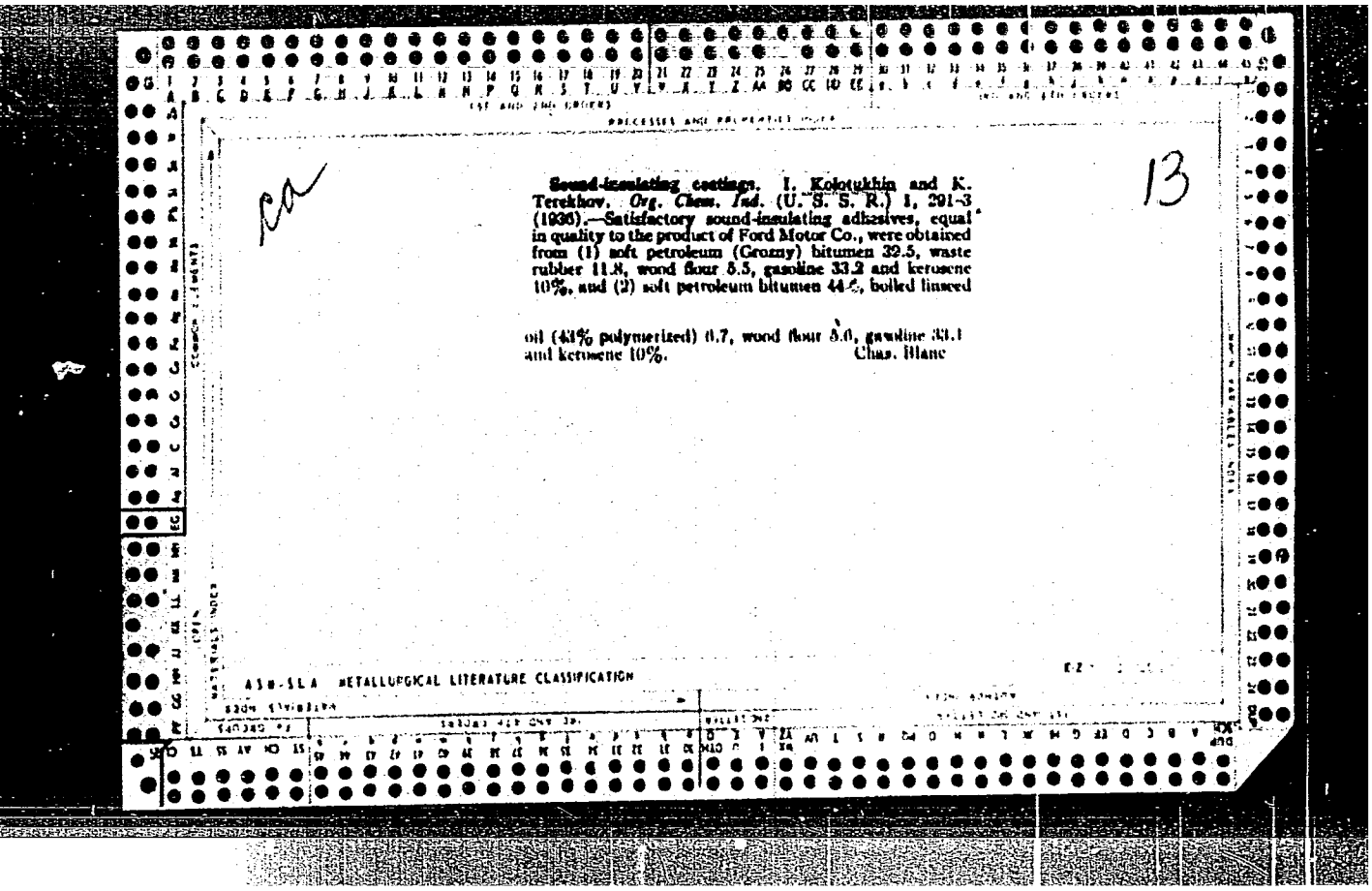
sepn. of CO_2. At 100° the talc is transformed into $MgO \cdot SiO_2$ and the zone of $2MgO \cdot SiO_2$ is reached at 1450°. Soapstone bricks withstand 1300° without deterioration. They are resistant to basic slag.

METALLURGICAL LITERATURE CLASSIFICATION



The technical properties of automobile lacquers and paints and methods for their study. I. N. Kolotukhin. *Lakokrasochnaya Industriya* 1934, No. 3, 44-50.
H. M. Leicester

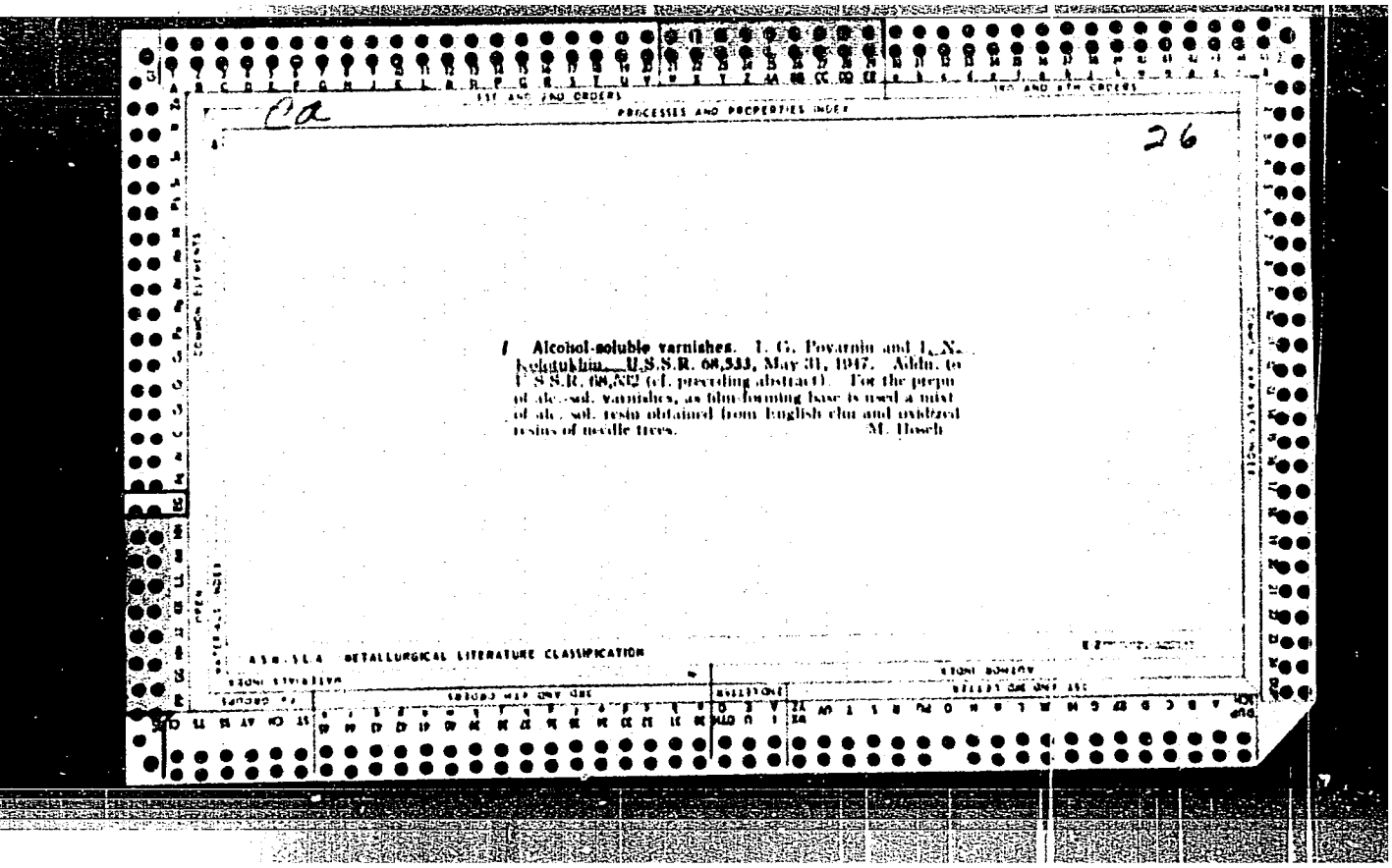
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



13

Sound-insulating coatings. I. Kolotukhin and K. Terekhov. *Org. Chem. Ind.* (U. S. S. R.) 1, 291-3 (1936).—Satisfactory sound-insulating adhesives, equal in quality to the product of Ford Motor Co., were obtained from (1) soft petroleum (Grozny) bitumen 32.5, waste rubber 11.8, wood flour 8.5, gasoline 33.2 and kerosene 10%, and (2) soft petroleum bitumen 44.2, boiled linseed oil (43% polymerized) 0.7, wood flour 8.0, gasoline 33.1 and kerosene 10%. Chas. Blanc

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



PROCESSES AND PROPERTIES INDEX

26

1 **Alcohol-soluble varnishes.** I. G. Povarnin and L. N. Kolotushkin. U.S.S.R. 68,533, May 31, 1947. Addn. to U.S.S.R. 68,532 (cf. preceding abstract). For the prepn. of alc.-sol. varnishes, as film-forming base is used a mixt. of alc.-sol. resin obtained from English elm and oxidized resins of needle trees. M. Hosch

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

KOLOTUKHIN, I.N.; KUZNETSOV, V.G.; KAZARNOVSKIY, S.N.; TSAREGRADSKIY, V.A.; PINCHUK, G.A., redaktor; VERINA, G.P., tekhnicheskiy redaktor

[Technology of lubricating and protective materials] Tekhnologiia smazochnykh i zashchitnykh materialov. Moskva, Gos. transportnoe zhel-dor. izd-vo, 1952. 235 p. [Microfilm]. (MLRA 8:7)
(Lubrication and lubricants) (Corrosion and anticorrosives) (Finishes and finishing)

LIVSHITS, M.L.; KOLOTUKHIN, I.N.; KISELEV, V.S., doktor khimicheskikh nauk, professor, redaktor; RAYNES, I.S., redaktor; MEL'NIKOVA, N.V., tekhnicheskiy redaktor

[Painting and finishing articles for mass consumption] Okraska i otdelka izdelii massovogo potrebleniia. Pod red.V.S. Kiseleva Moskva, Gos.izd-vo mestnoi promyshl.RSFSR, 1955. 295 p.
(Painting, Industrial) (MLRA8:10)

PHASE I BOOK EXPLOITATION SOV/4775

Kolotukhin, Ivan Nikiforovich, Vasiliy Georgiyevich Kuznetsov, Semen Naumovich Kazarnovskiy, and Vladimir Alekseyevich Tsaregradskiy

Tekhnologiya smazochnykh i zashchitnykh materialov (Technology of Lubricants and Protective Materials) 2nd ed., rev. and enl. Moscow, Transzheldorizdat, 1960. 146 p. 6,000 copies printed.

Ed.: G. A. Pinchuk, Candidate of Technical Sciences; Tech. Ed.: Ye. N. Bobrova.

PURPOSE: This textbook is intended for use in railroad-transportation tekhnikums and may also be used by workers occupied in painting and lubricating rolling stock.

COVERAGE: The authors discuss processes involved in the production of lubricating and protective materials for rolling stock. Attention is given to questions of the economic utilization of these materials in train maintenance. The second edition has

Card 1/7

undergone considerable revision and is supplemented with material on synthetic paints, various additives for improving lubricating materials, new varnishes and paints, and methods of applying these varnishes and paints. No personalities are mentioned. There are 46 references, all Soviet.

TABLE OF CONTENTS:

Card 2/7

L 10407-66 EWT(m)/EWP(w)/EWP(j)/T/EWP(t)/EWP(b) JD/WB/DJ/WE/RM
ACC NR: AM5022503 Monograph UR/

Kolotukhin, Ivan Nikiforovich; Kuznetsov, Vasiliy Georgiyevich; Kazarnovskiy, Semen Naumovich; Tsaregradskiy, Vladimir Alekseyevich

Lubricating and protective materials (Smazochnyye i zashchitnyye materialy) 3d ed., rev. and enl. Moscow, Izd-vo "Transport," 1965. 171 p. illus., biblio., 8000 copies printed.

TOPIC TAGS: lubricant, lubricant component, lubricant property, lubricating oil, grease, lubrication, paint, lacquer, detergent, railway rolling stock, protective coating, corrosion protection

PURPOSE AND COVERAGE: This monograph presents the basic properties, test and preparative methods, and also applications for lubricants and protective paints and lacquers required in the railroad industry. Compared with the second edition, this edition provides additional information on synthetic oils, greases, new synthetic polymeric paints and lacquers, and also detergents and polishing compositions. The monograph was approved by the State Administration for Educational Institutions of the Ministry of Transport as a textbook for rail transport technical schools and can be used by a wide range of workers who are connected with painting and lubrication of rolling stock.

Card 1/3 UDC: 625.23/.24002.4:[621.892+66]

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ACC NR: AM5022503

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TABLE OF CONTENTS [abridged]:

Card 2/3

L 10407-66
ACC NR: AM5022503

SUB CODE: FP, MT/SUBM DATE: 25Mar65/ ORIG REF: 033

6C

Card 3/3

KOLOTUKHIN, K.T., inzh.

Arrangement for conductor storage. Sudostroenie 28 no.11:58 N '62. (MIRA 15:12)
(Electric conductors—Storage)

KOLOTUKHIN, M. T.

"A Modified Me thod of Measuring Boltages at Busbars," Elek. Stan. No. 11, 1949. Engr.

83716
S/056/60/038/004/009/048
B019/B070

24.6600

AUTHORS: Gorbunov, A. N., Denisov, F. P., Kolotukhin, V. A.

TITLE: Reactions $_{13}Al^{27} \rightarrow Na^{24}$, $Co^{59} \rightarrow Mn^{56}$, $P^{31} \rightarrow Na^{24}$ in the γ-Quantum Energy Range up to 260 Mev

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 38, No. 4, pp. 1084-1087

TEXT: The three photonuclear reactions mentioned in the title were studied with a view to obtaining information on the interaction of photons in the energy range 30-260 Mev with nuclei. The experiments were carried out with the 260 Mev synchrotron at the Institute mentioned under association. The maximum energy of the synchrotron could be determined with an accuracy of ±2%. The targets were prepared from high-purity materials. The activity of the samples was measured with three equal 4π assemblies of β counters. During the experiment, the measuring apparatus was checked by radium standards. Fig. 1 shows the dependence of the yield from the three reactions investigated on the energies of the photons. Their differential cross section was calculated from this.

Card 1/2

83716

Reactions $Al^{27} \rightarrow Na^{24}$, $Co^{59} \rightarrow Mn^{56}$, $P^{31} \rightarrow Na^{24}$ in the γ-Quantum Energy Range up to 260 Mev

S/056/60/038/004/009/048
B019/B070

The results are shown diagrammatically in Figs. 2-4. From the discussion of the results obtained here, the conclusion is drawn that for photon energies above 60-80 Mev the interaction of the photons with the nuclei takes place without the formation of a compound nucleus. The authors thank Professor P. A. Cherenkov for his interest in the work. They also thank the staff of the synchrotron. There are 4 figures and 7 references: 2 Soviet, 4 US, and 1 Canadian.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Institute of Physics imeni P. N. Lebedev of the Academy of Sciences, USSR)

SUBMITTED: November 4, 1959

Card 2/2

S/120/61/000/002/026/042
E032/E114

AUTHORS: Izrailev, I.M., and Kolotukhin, V.A.

TITLE: Production of high-intensity ultra-soft X-rays

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No.2, pp.136-137

TEXT: The X-rays were produced by a demountable tube working with a constant anode voltage of 3 to 5 kv and an anode current of 1 amp. The design of the tube was based on the following considerations. The space charge limited anode current can be calculated from the formula

$$I = \frac{\sqrt{2}}{9\pi}\sqrt{\frac{e}{m}}\frac{V^{3/2}}{d^2} = 2.34 \times 10^{-6}\, V^{3/2}/d^2 \ a/cm^2$$

where V is the potential difference in volts and d is the distance between the anode and cathode, in cm. With d = 0.6 cm and V = 3 kv, the space charge current limitation begins at about 1 amp/cm^2, so that the working area of the cathode (and hence of the anode) should be not less than 1.5-2 cm^2. The necessary electron emission is obtained with a cathode temperature of about

Card 1/5

S/120/61/000/002/026/042
E032/E114

Production of high-intensity ultra-soft X-rays

2400 °C. With high current densities the electron beam tends to defocus because of space-charge effects. This was eliminated by special design on the anode and cathode (Fig.1). The form of the electrodes was designed in accordance with the recommendations given by B.Ya. Pines (Ref.1) and V.D. Bezverkhin and B.Ya. Pines (Ref.2). This was supplemented by electrolytic tank studies. With continuous operation, the power dissipation at the anode is about 3 kw, so that the anode must be specially cooled. In the final form, the anode was water-cooled as described by V.I. Rakov in Ref.3. A schematic drawing of the tube is shown in Fig.1. The copper anode was earthed and the dimensions of the anode reflector (tungsten) were 40 x 6 x 3 mm^3. The cathode was in the form of a tungsten ribbon 40 x 5 x 0.1 mm^3 attached to holders by spot-welding. The cathode supply current was 75 amp. The focussing part of the cathode is made of copper and the angle between the focussing plates is 135°. The screw head 10 can be used to displace the focussing part of the cathode relative to the filament. Moreover, the cathode as a whole can be adjusted to lie

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E032/E114

Production of high-intensity ultra-soft X-rays

at a distance of 3-20 mm from the anode. The X-ray beam leaves the tube through the port 11 whose axis is at an angle of 8° to the plane of the anode reflector. The tube is evacuated through the port 13 by the diffusion pump ЦВЛ-100 (TsVL-100). In order to determine the dimensions of the focal spot a circular diaphragm 1 mm in diameter was inserted into the port 11. A glass tube carrying the screen of a CRO screen was then sealed to the port 11. On the inner side the screen was coated with graphite (1-2 μ) which transmitted the X-rays but absorbed visible radiation. Fig.2 shows a photograph of the focal spot. (V = 3 kv, I = 0.7 amp). The spot is surrounded by a background due to visible light transmitted by the graphite layer. It was found that the projection of the focal spot onto the plane perpendicular of the axis of the port 11 was about 3.5 x 3.5 mm^2. The true dimensions of the focal spot on the anode were 25 x 3.5 mm^2 x (24 w/mm^2). There are 2 figures and 3 Soviet references.

SUBMITTED: May 27 1960
Card 3/5

KOLOUSEK, J.; DIRSTBIER, Z.

Urinary radiophosphorus ^{32}P levels in rats after a single 2,3-dinitrophenol administration prior to X-irradiation with the dose of 600 r. Neoplasma (Bratisl.) 12 no.5:525-530 '65.

1. Institute of Biophysics, Faculty of General Medicine, Charles University, Prague, Czechoslovakia. Submitted November 4, 1964.

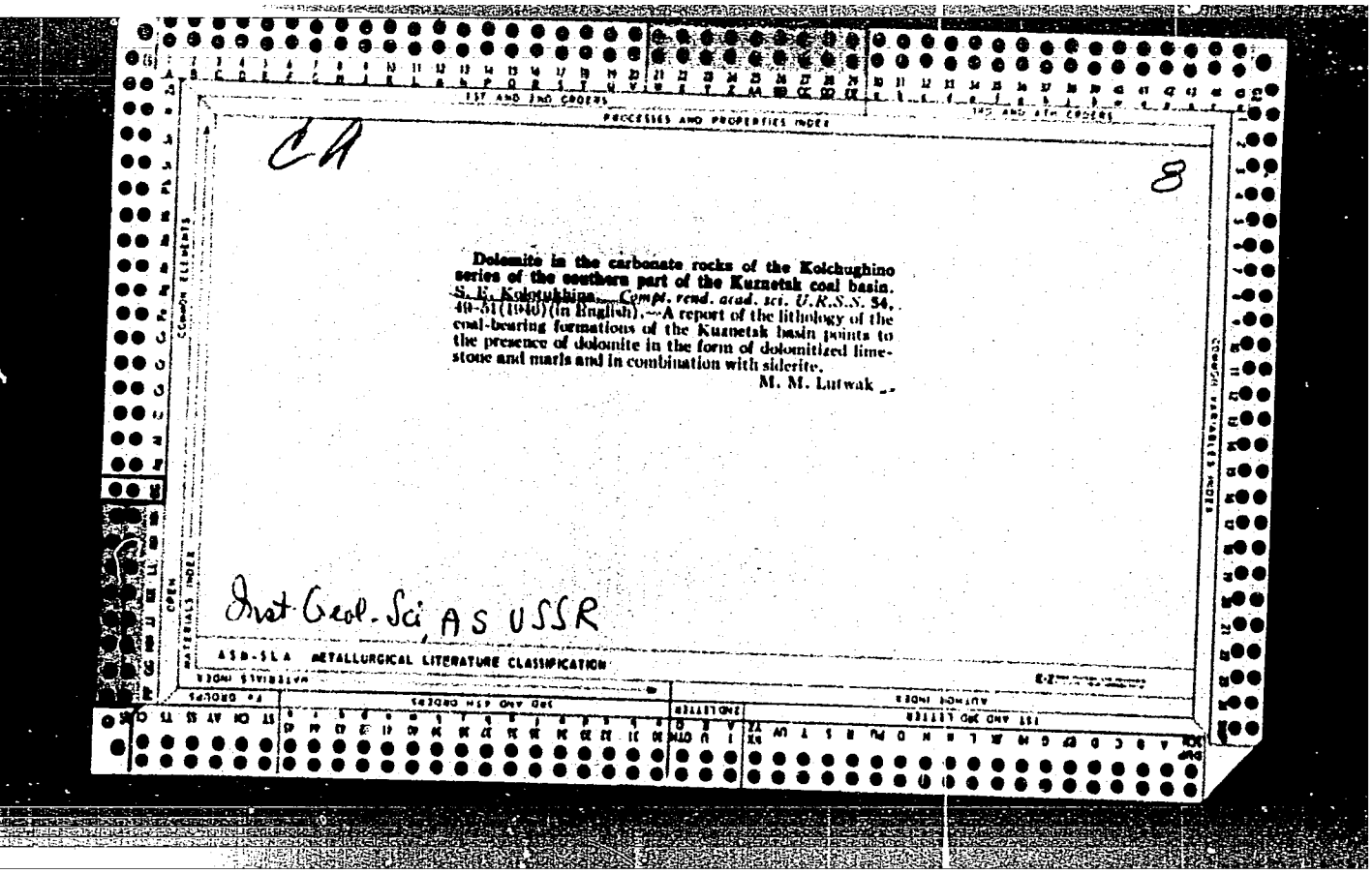
KOLOTUSHKINA, A.P.

At the Scientific and Technological Council of the All-Union Scientific Research Institut of Agricultural Machinery. Trakt. i sel'khozmash. no.7:3 of cover Jl '64. (MIRA 18:7)

TUMASHEVITS, V.F.[Tumasevic, V.]; SVIKIS, V.; KOLOTUKHINA, P.I.; DANEMANE, V.; ZIEMELE, I.; IL'INA, S.G.; KARKLINA, S.; SAKSONE, V.; LEVI, S., red.

[The lumbering and woodworking industry of the Baltic Economic Region; its condition and prospects for development] Lesopil'no-derevoobrabatyvaiushchaia promyshlennost' Pribaltiiskogo ekonomicheskogo raiona; sostoianie i perspektivy razvitiia. Riga, Izd-vo AN Latviiskoi SSR, 1964. 95 p. (MIRA 18:6)

1. Latvijas Padomju Socialistiskas Republikas Zinatnu Akademija. Ekonomikas instituts.



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8

Dolomite in the carbonate rocks of the Kolchughino series of the southern part of the Kuznetsk coal basin. S. E. Kolotukhina. *Compt. rend. acad. sci. U.R.S.S.* 54, 49-51 (1946) (in English).—A report of the lithology of the coal-bearing formations of the Kuznetsk basin points to the presence of dolomite in the form of dolomitized limestone and marls and in combination with siderite.

M. M. Lutwak

Inst Geol. Sci, A S USSR

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

KOLOTUKHINA, S. YE. PA 55/49T55

USSR/Geology Nov 48
Sandstones

"Problem Concerning the Genesis of Tabachkovyy Sandstones of the Formation C$_2^2$ in the Donets Basin," S. Ye. Kolotukhina, Inst of Geol Sci, Acad Sci USSR, 2 pp

"Dok Ak Nauk SSSR" Vol LXIII, No 3

Absence of effusive detritus in Tabachkovyy sandstone of the chief anticlinal region (Miuschik River), so typical of coeval sandstones of the northern part of the Basin, and abundance of gneiss detritus and granitoid rocks suggest the material [redacted]

55/49T55

USSR/Geology (Contd) Nov 48

was carried away from another source, probably the Azov-Polish massif. Submitted by Acad I. P. Grigor'yev 25 Sep 48.

55/49T55