NIKOLAYEVSKIY, Yu.L.; KRICHEVSKIY, M.Ya.

Increasing the strength of straightening devices of pipe-rolling mills. Stal'. 23 no.1:47-48 '63. (MIRA 11:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii chernoy metallurgii (for Nikolayevskiy). 2. Tsentral'nyy institut informatsii chernoy metallurgii (for Krichevskiy).
(Rolling mills)

SOV/133-58-7-15/27

AUTHORS: Nikolayevskiy, Yu. I. and Krichevskiy, M.Ya., Engineers

TITLE: Centralised Manufacturing of Tools for Tube-rolling Mills (Tsentralizovannoye izgotovleniye trubo-prokatnogo instrumenta)

PERIODICAL: Stal', 1958, nr 7, pp 633 - 635 (USSR)

ABSTRACT: The advantages of centralisation of the manufacture of tools for tube-rolling mills are discussed. There are 4 tables.

1. Rolling mills--Equipment 2. Tools--Production

Card 1/1

S/137/61/000/011/051/123
A060/A101

AUTHORS: Nikolayevskiy, Yu. I., Spivakovskiy, L. I., Bongart, A. G.

TITLE: Determination of the heat-treated steel pipe demand by the USSR national economy for 1959 - 1965

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 35, abstract 11D205 ("Sb. nauchn. tr. Vses. n.-i. in-t organiz. proiz-va i truda v chern. metallurgii", 1960, no. 1, 71-78)

TEXT: The demand for heat-treated pipes was determined according to the nomenclature adopted by the Gosplan of the USSR and by the Soyuzglavmetal. All pipes are divided into three groups of steel grades (carbon, alloy, and stainless) and each of the groups of steel grades - is again subdivided into groups according to the GOST and the TU classifications on the basis of the principle of uniformity of heat-treatment. From the capacities extant in 1957-1958, the amount of heat-treated pipes in the total production by the end of the seven-year plan will constitute (by weight percentage for various types of pipe): thin-walled seamless 100, electric-welded thin-walled 87, drawn 100, rolled 2%, oil assortment 16.5, electric-welded large-diameter 50. In all, 18.3 % of the total pipe

Card 1/2

IVANOV, Vladislav Grigor'yevich; FRAKHAILIH, Boris Dmitriyevich; SMIRAM, Vladimir Grigor'yevich; NIKOLAYEVSKIY, Yu.I., retsenzent

[Steel molds for the centrifugal casting of pipe] Stal'nye formy dlia tsentrobezhnogo lit'ia trub. Moskva, Izd-vo "Metallurgiia," 1964. 70 p. (MIRA 17:7)

[illegible]VILI, O.V.

Aerological properties of the cloudiness over Tiflis according to data on airplane take-offs. Trudy Tbil. NIGMI no.2:133-137 '57. (MIRA 11:4)
(Tiflis--Clouds)

ACCESSION NR: AT4016279 S/3061/63/000/014/0083/0100

AUTHOR: Nikolayshvili, G. V.

TITLE: Meteorological conditions [producing] aircraft icing over the Transcaucasus

SOURCE: Tiflis. Zakavkazskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut. Trudy*, no. 14, 1963, 83-100

TOPIC TAGS: Transcaucasus weather, cloud physics, weather reconnaissance flight, aircraft icing, atmospheric turbulence, aircraft bumping

ABSTRACT: Data obtained during weather reconnaissance flights over stations at Tbilisi, Baku, and Yerevan (1952—1958) are analyzed to chart weather conditions during which icing occurs on aircraft in flight over the Transcaucasus area. All flights were aboard a specially equipped LI-2 airplane, at altitudes not exceeding 6—7 km, over territory within a radius of 25—30 km from take-off. The analysis includes the phase structure of cloud formations during 1955-58. Numerous tables and graphs and the occurrence of turbulence (aircraft bumping) illustrate the processed data and indicate that

Card 1/2

MCHEDLISHVILI, G.I.; NIKOLAYSHVILI, L.S.

Nervous mechanism of the nutritive reactions of pial arteries supplying blood to the cortex of cerebral hemispheres. Dokl. AN SSSR 156 no. 4:966-971 Je '64. (MIRA 17:6)

1. Institut fiziologii AN GruzSSR. Predstavleno akademikom I.S.Beritashvili.

[redacted], M. S.

"Alternating Current Plant Auxiliary Power Systems for Medium Capacity Hydroelectric Power Plants."

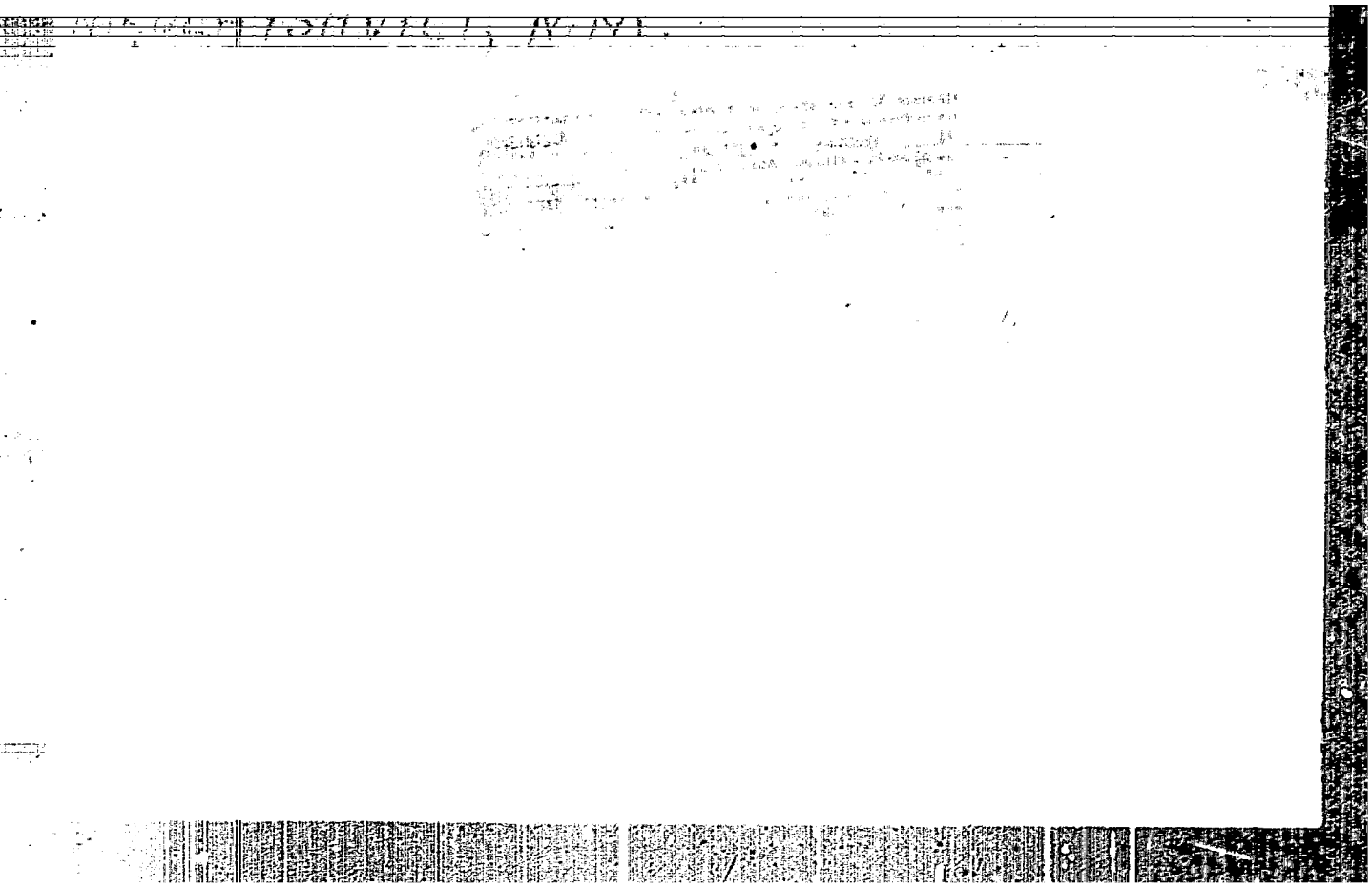
in book - New Developments in the Design of Electric Equipment for Hydroelectric Power Plants, 1957. 222 p. Moscow-Leningrad, Gosenergoizdat.
(Data of the Conference on Design and Operation, Moscow, 16-24 May 1956.)

AC Schemes of Stationary Auxiliaries for Medium-Capacity Hydroelectric . . . .

connected to the central auxiliary switchboard, is presented. Normally, the switchboard is supplied by two transformers; however, at small stations, one transformer may suffice. Schemes of station auxiliaries at medium-capacity hydroelectric stations, Gruzenergo power system, are reviewed and analyzed. Disadvantages of the schemes at ZAGES, RionGES, and KhramGES are noted. A standard scheme of station auxiliaries is suggested; it is based on these principles: the minimum possible number of feeders, a ring supply scheme of the essential-consumer bus with a two-bus-section central switchboard, use of change-over switches, and a minimum number of automatic devices and automatic switching under emergency conditions. The central auxiliary switchboard, at medium-capacity stations, should be placed close to the central auxiliary transformers, at the load center; the hydroturbine-generator-unit panels should be placed in pairs between the generator units. The schemes of auxiliaries at 200-600-Mw hydroelectric stations have these peculiarities:

AC Schemes of Stationary Auxiliaries for Medium-Capacity Hydroelectric . . . .

they include large 6-kv motors, and they provide a separate supply to the all-station and the generator-unit switchboards; the latter are usually connected to the generators via individual transformers. The supply can also be provided from the main station 6-10-kv switchgear. The supply of the unit switchboards is reserved by means of a common transformer connected to 6-10-kv switchgear. General station auxiliaries are supplied from a special 6-kv auxiliary switchgear, as well as from feed points that each have two 320-750-kva transformers. The schemes of auxiliaries at super-power hydroelectric stations should be treated individually. Such a scheme of the Krasnoyarsk hydroelectric station is presented. Special under-load-regulated transformers are recommended for lighting. Voltage-adjusting at the central auxiliary transformers is considered undesirable. Conventional switchgear apparatus meets the requirements of small and medium hydroelectric stations; small remote-operated automatic circuit-breakers of 500-1,000-1, 500-amp, are



APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001137120014-1"

NIKOLAISHVILI, N.M.; LOSKUTOVA, N.V.; TOKOTADZE, I.I.

Comprehensive study of Vakiis-Dakari, Georgia, syenites as raw materials for the manufacture of alumina, soda, and cement. Trudy KIMS no.5:95-97 '63. (MIRA 16:10)

NIKOLAYSHVILI, Sh. S.

AUTHORS: Kukhtevich, V. I., Kazanskiy, Yu. A., Nikolayshvili, Sh. S., Tsypin, S. G. 89-2-4/35

TITLE: The Passage of Scattered γ-Rays Through Water (Prokhozhdeniye rasseyannogo γ-izlucheniya v vode).

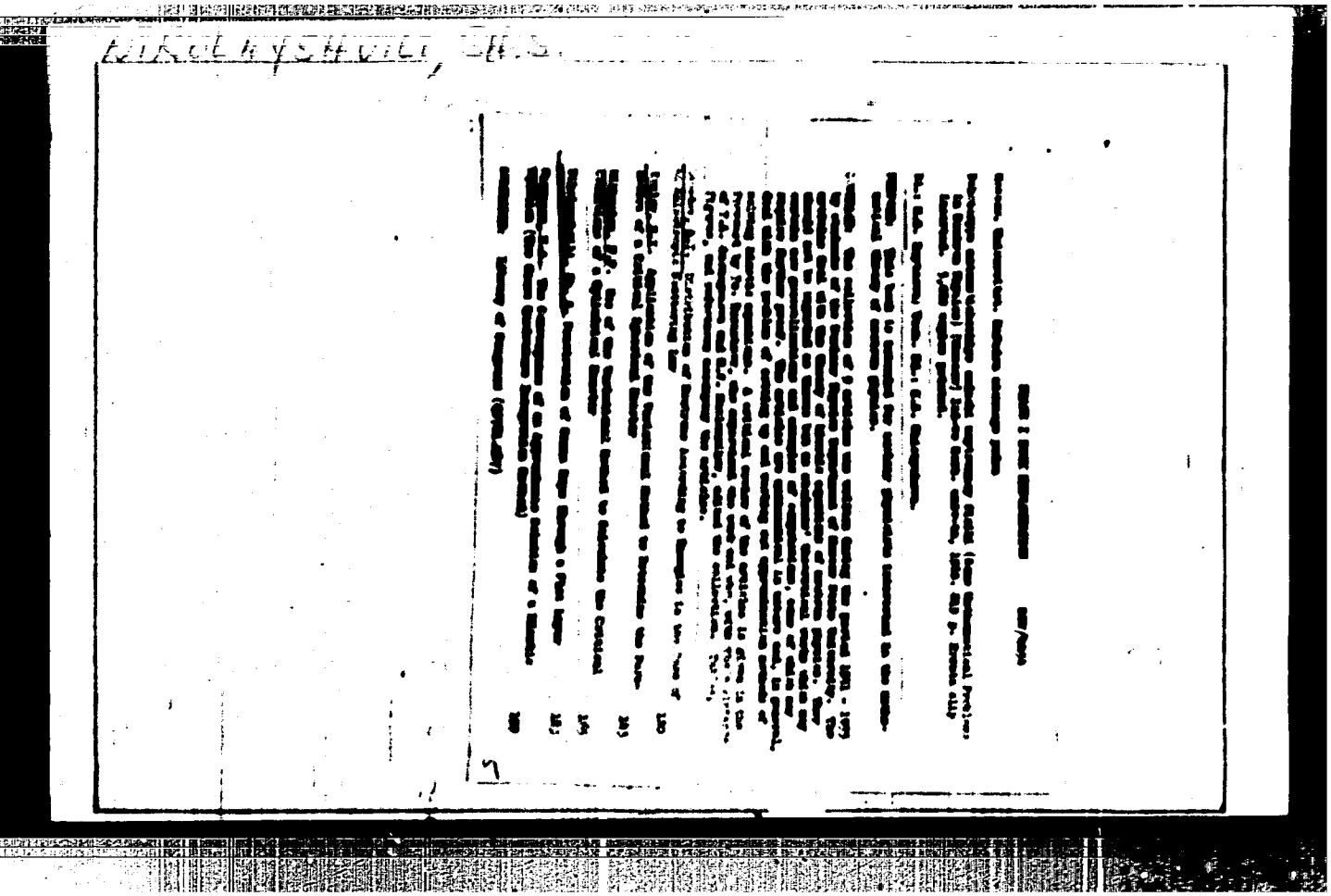
PERIODICAL: Atomnaya Energiya, 1957, Vol. 4, Nr 2, pp. 138-143 (USSR).

ABSTRACT: Sources of γ-rays (Au^{198}, Co^{60}, Na^{24}) are mounted in a large water tank on a mobile support in such a way, that an immediate irradiation of the detector is excluded, and that, on the other hand, different collimation angles may be adjusted. The dependence of the weakening of the γ-quanta scattered in the water on the distance between the source and the detector is measured and also computed. The distance from the source to the detector amounted to 3 - 4 and 8 - 12 lengths of the mean free path of γ - quanta in water. The collimation angle were varied between 30 and 80°. Three curves show the percentual decrease of the dose dependent on the distance x.

1. Au^{198} x=7o to 11o cm α=79°, 52,5°, 32°

2. Co^{60} x=6o to 11o cm α=82°, 59°, 47°

Card 1/2



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AUTHOR: Nikolayshvili, Sh. S.

TITLE: Approximate solution of the transport equation by the method of moments

PERIODICAL: Atomnaya energiya, v. 10, no. 3, 1961, 271-272

TEXT: The present paper deals with the calculation of the neutron-energy distribution at a given distance from an isotropic point source in an infinite homogeneous medium. The problem is solved by the method of moments which is described as follows: The first even spatial moments of the desired function are determined from the equation of motion that expresses the moderation and diffusion of the neutrons. Next, this function is set up in an approximate representation, using the exact first even moments and taking into account the asymptotic behavior of the solution. The first three moments of the function $\Psi(r)$, which is positive definite in the interval $(0,\infty)$, are given by $\mu_n = \frac{1}{n!}\int_0^\infty r^n I(r)dr$, $n = 0, 2, 4$.

Card 1/3

The desired distribution is determined by the function $4\pi r^2 \varphi_0(r)$ $= 4\pi r^2 \int_{-1}^{+1} \varphi(r,\mu)d\mu$. After separation of the scattering-free part of the neutron field, one obtains $4\pi r^2 \varphi_0(r) = e^{-r} + \varphi_1(r)$ (6), and the moments of $\varphi_1(r)$ are given by $\mu_0 = \frac{\omega}{1-\omega}$, $\mu_2 = \frac{\omega(2-\omega)}{(1-\omega)^2}$ and $\mu_4 = \frac{(23 - 27\omega + 9\omega^2)}{9(1-\omega)^3}$. Thus, one obtains:

$$4\pi r^2 \varphi_0(r) = e^{-r} + \frac{\omega}{1-\omega} \frac{\alpha^\nu}{\Gamma(\nu)} r^{\nu-1} e^{-\alpha r} \quad (7);$$

α and ν are determined from (2) and (3), and, finally, one has $p = \frac{1}{2} \frac{(2-\omega)^2}{23-27\omega+9\omega^2}$. The results of calculations for $\omega=0.5$ and $\omega=0.9$ are shown in Figs. 1 and 2. The curves represent the solutions to Eq.(5). The distances from the source are plotted on the abscissa in units of mean free path; the ordinate shows the ratio of the approximate values of the function $4\pi r^2 \varphi_0(r)$ to its exact value. The approximate values

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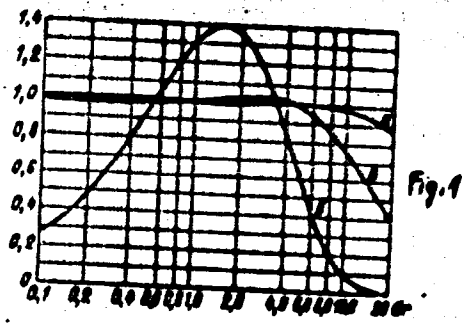

Fig. 1

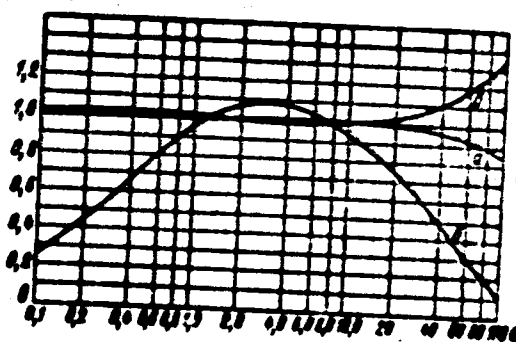

Fig. 2

Card 5/5

The one-group problem...

linear algebraic equations. The solution of

$$\cos\theta\frac{\partial\phi}{\partial r}-\frac{\sin\theta}{r}\frac{\partial\phi}{\partial\theta}+\phi=\frac{\omega}{4\pi}\int_0^{2\pi}d\alpha\int_0^{\pi}g(\cos\theta_0)\phi(r,\theta')\sin\theta'd\theta'+\frac{1}{2}\frac{\delta(r)}{4\pi r^2} \quad (1)$$

where $\cos\theta_0=\cos\theta\cos\theta'+\sin\theta\sin\theta'\cos\alpha$ and $\phi(R,\theta)=0$, $\theta>\pi/2$, is sought in the form

$$\phi(r,\theta)=\frac{e^{-r}}{4\pi r^2}\delta(1-\cos\theta)+\varphi(r,\theta) \quad . \quad (3)$$

where $\varphi(r,\theta)$ is the new function that describes the spatial angular distribution of the neutrons scattered. The new function $u(r,\theta)$ is introduced, defined by $u(r,\theta)=4\pi r\varphi(r,\theta)$, which satisfies

$$\cos\theta\frac{\partial u}{\partial r}-\frac{1}{r}\frac{\partial}{\partial\theta}(u\sin\theta)+u=\frac{\omega}{2}\left[F(r,\theta)+\frac{e^{-r}}{r}g(\cos\theta)\right] \quad (8)$$

$$F(r,\theta)=\frac{1}{2\pi}\int_0^{2\pi}d\alpha\int_0^{\pi}g(\cos\theta_0)u(r,\theta')\sin\theta'd\theta' \quad (9);$$

Eq. (8) is considered the fundamental expression for the solution of the

Card 2/5

The one-group problem...

From this u^k_ν, $\nu>q$, $k\neq 0$ can be found. From

$$u^k_{q-1} = \frac{1-r_k\cos\theta_{q-1}}{1+r_k\cos\theta_{q-1}}\,u^k_{q+1} + \frac{(\omega/2)}{1+r_k\cos\theta_{q-1}}\left\{\frac{2\left(\frac{\pi}{2}-\theta_{q-1}\right)}{\sin\theta_{q-1}}\,\frac{g(\cos\theta_{q-1})+q(-\cos\theta_{q-1})}{2}\right.$$

$$\left. + r_k \ln \operatorname{ctg}\frac{\theta_{q-1}}{2}\left[F(r_k,\theta_{q-1})+F(r_k,\pi-\theta_{q-1})\right]\right\} \qquad (22)$$

u^k_{q-1} and from

$$u^1_\nu = \frac{1-r_1\cos\theta_\nu}{1+r_1\cos\theta_\nu}\,u^1_{2q-\nu} + \frac{(\omega/2)}{1+r_1\cos\theta_\nu}\cdot\left\{\frac{2\left(\frac{\pi}{2}-\theta_\nu\right)e^{-r_1}}{\sin\theta_\nu}\,\frac{g(\cos\theta_\nu)+g(-\cos\theta_\nu)}{2}\right.$$

$$\left. + r_1 \ln \operatorname{ctg}\frac{\theta_\nu}{2}\cdot\left[F(r_1,\theta_\nu)+F(r_1,\pi-\theta_\nu)\right]\right\} \qquad (21)$$

all values of u^1_ν except for $\nu\neq 0$ can be determined. Then the solution of

Card 4/5

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AUTHOR: Nikolayshvili, Sh. S.

TITLE: Spatial and energy distributions of fast neutrons in hydrogen

SOURCE: Teoriya i metody rascheta yadernykh reaktorov; sbornik statey. Ed. by G. I. Marchuk. Moscow, Gosatomizdat, 1962, 72 - 78

TEXT: The method of moments is used for calculating the fast-neutron energy distributions at various distances from an isotropic point source placed in an infinite hydrogen medium. The source is assumed to emit monoenergetic neutrons. The neutron flux equation

$$E_0(r,E) = \frac{\varphi_0(r,E)}{E} \qquad (3)$$

$$\varphi_0(r,u) = \int_{-1}^{+1} \varphi(r,\mu,u)d\mu, \quad u = \ln\frac{E_0}{E} \qquad (4)$$

is taken as the spectral characteristics of the neutron field and is obtained by solving

Card 1/3

Spatial and energy...

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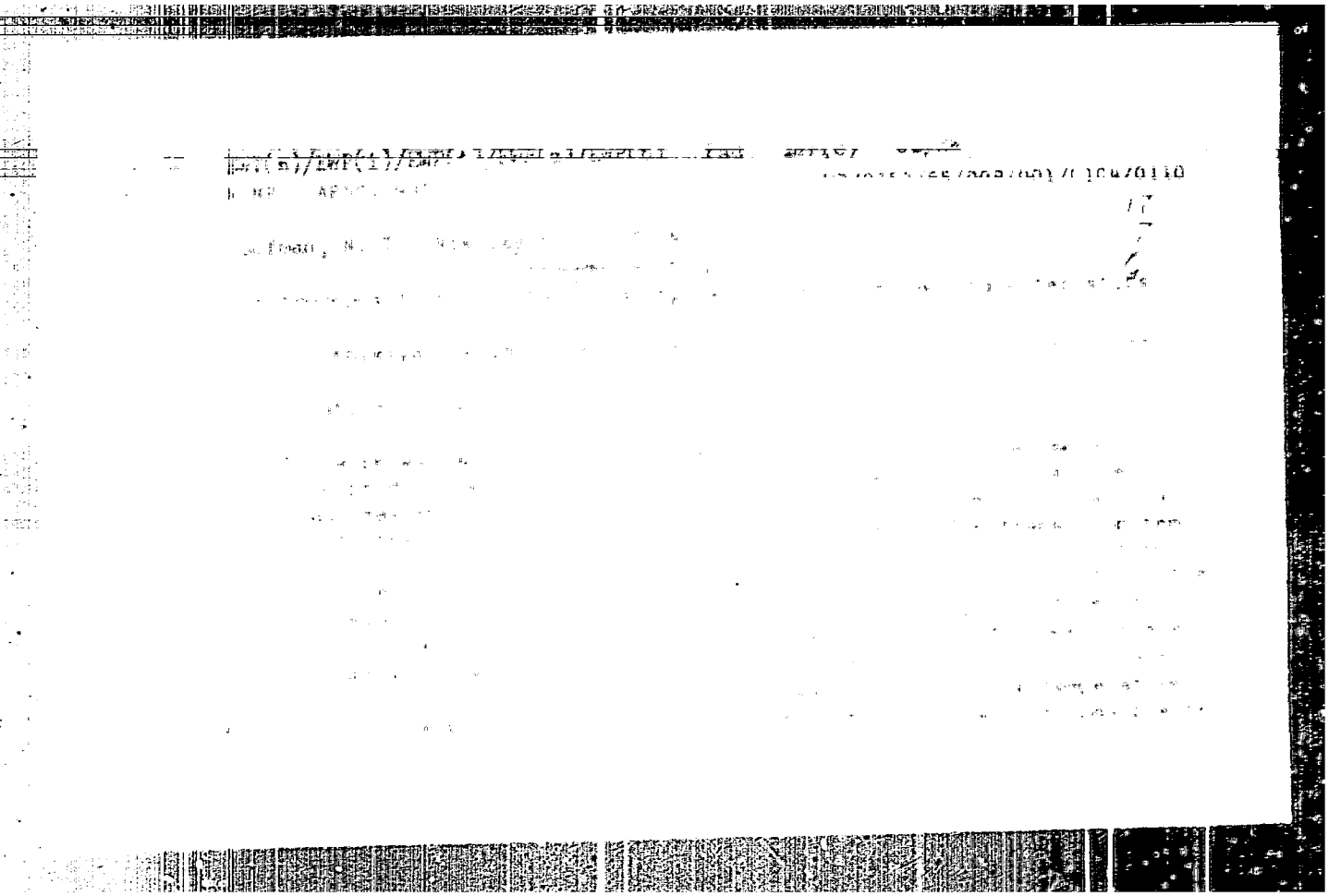
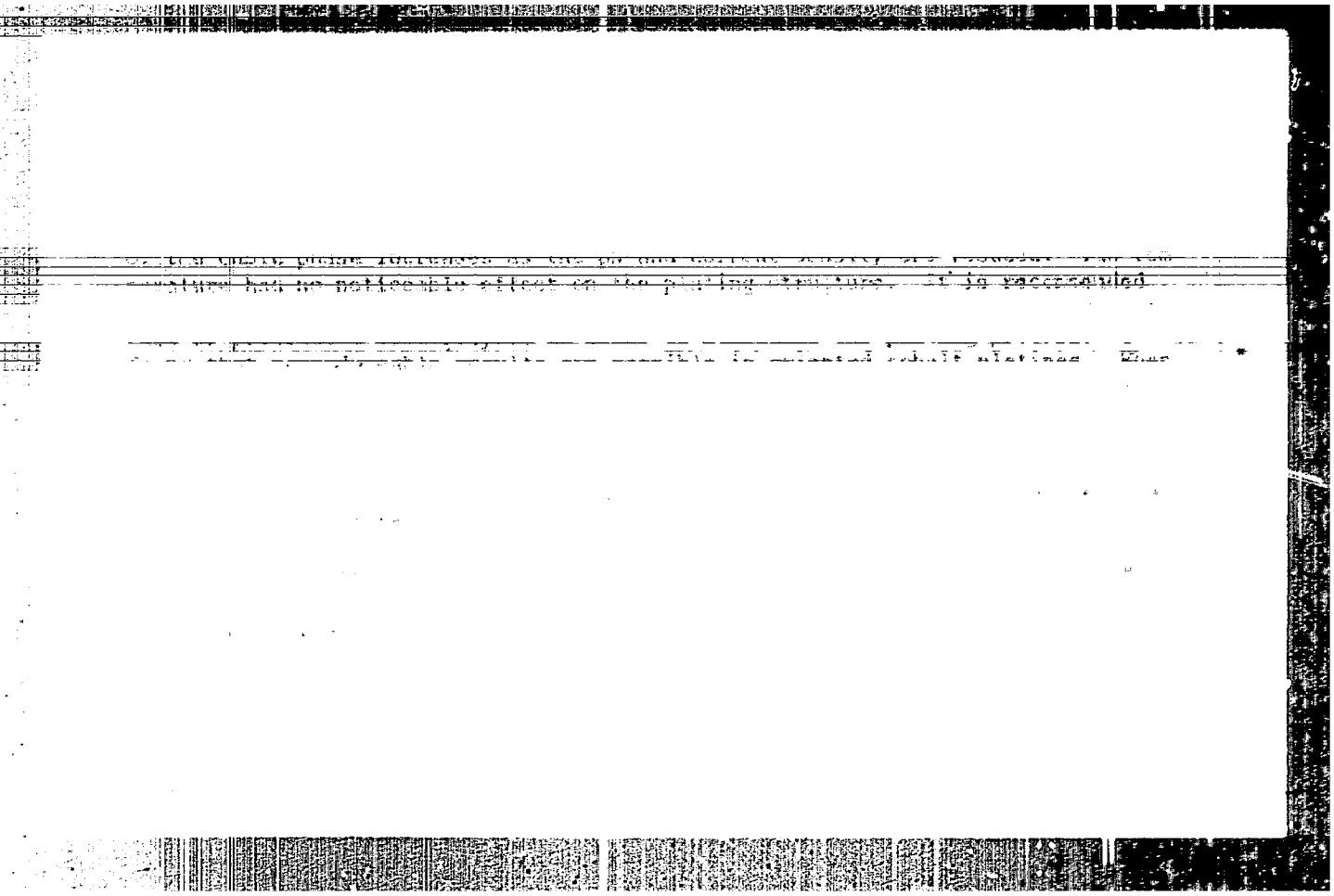
Each of these equations is approximately solved numerically by representing its kernel in a degenerate form. The first three even moments are used to determine $\varphi_0(r,u)$. Computations are carried out for E_n = 2, 4, 6, 8, 10, 12, 14 Mev for $r \leq 90$ cm and proton densities are assumed to be equal to their partial densities in water. There are 2 tables.

Card 3/3





BARABADZE, I.I.; BAKRADZE, G.S.; BERIDZE, G.I.; VARDANISHVILI, N.I.; GABUNIYA, G.A.; GABUNIYA, Sh.V.; GANGIYA, A.A.; GOGOBERIDZE, Ye.A.; DEKOLSTARISHVILI, A.I. [deceased]; ZNAMENSKIY, K.F.; KVANTALIANI, N.A.; NIKOLAYSHVILI, V.S.; TOPADZE, L.I.; KHUNTSARIYA, A.G.; YAKOBASHVILI, M.S.; BERIKASHVILI, G.S., red.; KOYNISHVILI, N.I., red.; PRITYKINA, L.A., red.; KISINA, Ye.I., tekhn. red.

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(Georgia--Food industry)

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Kuratovskii's duality theorem. Soob. AN Gruz. SSR 35 no.3:513-518 S '64. (MIRA 17:11)

1. Gruzinskiy politekhnicheskiy institut imeni Lenina. Predstavleno akademikom G.S. Chogoshvili.

KAKABADZE, V.M.; NIKOLAISHVILI, Z.G.; MSHVENIYERADZE, N.G.

Production of magnesium oxide by carbonization of an aqueous suspension of serpentinite. Trudy Inst. prikl. khim. i elektrokhim. AN Gruz. SSR 4:53-58 '63. (MIRA 17:5)

NIKOLAISHVILI, Z.G.; KAKABADZE, V.M.; KSHVENIYERADZE, N.G.

Production of a new fertilizer based on magnesium nitrate and urea. Soob. AN Gruz. SSR 33 no. 2:247-254 F '64.
(MIRA 17:9)

KAKABADZE, V.M.; NIKOLAYSHVILI, Z.G.; MSHVENIYERADZE, N.G.; BEREZHIANI, L.B.

Physicochemical analysis of the products of interaction between magnesium nitrate and urea. Dokl. AN SSSR 161 no.5:1156-1157 Ap '65. (MIRA 18:5)

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59 P. Tables.
At Head of Title: Akademiya Kommunal'nogo Khozyastva.

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TECHNOLOGY
Sofia, Bulgaria

So: East European Accession, Vol. 6, No. 2, Feb. 1957

NIKOLCHEV, Georgiy, inzhener.

Prospective electrification of the railroads of the Bulgarian People's Republic. Khol. dor. transp. 39 no.5:81-83 My '57. (MLRA 10:6)

1. Starshiy nauchnyy sotrudnik Nauchno-issledovatel'skogo instituta transporta.

(Bulgaria--Railroads--Electrification)

NIKOLCHEV, G.P., inzh.

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SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4 No. 5, May 1955, Uncl.

[redacted], K.[redacted]KOV, I.

"Practical Method for Quick Discovery of Blood Unsuitable for Drying."
p. 26,
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SO: Monthly List of East European Accessions, (EEAL), Vol. 4
No. 5, May 1955, Unel.

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NIKOLCHEV, K.

NIKOLCHEV, K. Characteristics of the hides of different breeds of cattle in our country, in view of their use for industrial products. p. 26. Vol. 5, no. 11, 1956 ELEKTROMEKHANIKA. Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 4--April 1957

BULGARIA/Chemical Technology. Chemical Products and Their Application. Leather. Fur. Gelatin. Tanning Agents. Technical Proteins. H

Abs Jour: Ref Zhur-Khim., No 13, 1958, 45452.

Author : Nikolchev K.
Inst :
Title : Stability of Wet-Salted Hides in Storage Depending on the Method of Preservation.

Orig Pub: Leka promishlenost, 1957, 6, No 1, 20-22.

Abstract: Experiments on preservation of hides, which were carried out at the Sofia Meat Combine (air temperature 0-28°, humidity 45-85%), have shown that stability of hides in storage depends on their cleanness, salting procedure, and addition of anti-

Card : 1/3

NIKOLCHEV, K.; MITKOV, S.

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Periodicals: LEKA PROMISHLENOST, Vol. 8, No. 1, 1959

NIKOLCHEV, K. Brining cattle and swine hides; p. 7

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Influence of various temperatures in dry heating upon the collagen of leather derma. II. Kozhi Sofia 3 no.2:2-3, 14 '62.

1. St. nauch. sutr. NITIZKP (for Nikolchev). 2. KNTI (for Pesheva). 3. NITIZKP (for Mitkov and Rusev).

NIKOLCHEV, Kiril, d-r; RUSEV, Ivan, inzh. khim., nauch. sutrudnik

Weight of the dry and fresh skins of our domestic lambs. Koshi Sofia 3 no.4:1-3 '62.

1. NITIZhP. 2. St. nauchen sutrudnik pri NITIZhP (for Nikolchev).

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Drying smaller cattle hides with infrared rays. Koshi Sofia 5 no.3:1-3 '64.

1. NITIZhP, Sofia.

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In honor of the 8th Congress of the Party, a new social principle is boldly thrusting its way forward. The unions in the Textile Combinate "Parvi mai" at Varna and the Carbide Plant at Asenovgrad took over the functions of the technical councils of their respective enterprises and so, fully aware of their own strength and forces, undertook new pledges and obligations. Tekh delo 13 no.4:1-1 16 Je '62.

NIKOLCHOVSKI, T.

NIKOLCHOVSKI, T. Silo made on the ground. p.27.

Vol. 11, no. 9, Sept. 1956
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Sofiia, Bulgaria

SO: East European Accession, Vol. 6, No. 3, March 1957

ARTYUKH, Yu.N.; NIKOLENKO, A.F.

New design of a piston for a glass circulating pump. Kin. i kat. 1 no. 4:620-621 N-D '60. (MIRA 13:12)

1. Institut fizicheskoy khimii imeni L.V. Pisarzhevskogo AN USSR.

(Chemical apparatus)

SAVKIN, P.V., insh.; KOLPOVSKIY, N.M., insh.; VOL'PER, Yu.D., insh.; NIKOLENKO, A.V., insh.

Use of converter metal for the manufacture of electrically welded pipe. Met. i gornorud. prom. no.5:28-30 S-O '63. (MIRA 16:11)

1. Nizhnepetrovskiy truboprokatnyy zavod imeni Lenina.

NIKOLENKO, A.V.

Durability of long mandrels in continuous pipe mill operation.
Metallurg 8 no.10:31 O '63. (MIRA 16:12)

1. Truboprokatnyy zavod im. Lenina.

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(Children--Employment)

NIKOLENKO, F.; insh; KUSHNIRUK, A., insh.

Dishwashing machine. Obshchestv.pit. no.12:26-28 D '60. (MIRA 13:12)

(Dishwashing machines)

BERGER, A.Kh.; Prinimali uchastiye: KARPOV, V.L., kand.khim.nauk; MELYNSKIY, V.A.; OSIPOV, V.S., PROKUDIN, S.D.; YURIKOV, G.S., kand.khim.nauk; GOL'DIN, V.A.; RYABUKHIN, Yu.S.; KOROLEV, G.N.; APONIN, V.P.; POKROVSKIY, V.S.; KULAKOV, S.I.; LEKAREV, P.V.; FEDOROVA, T.P.; KOROTKOVA, M.A.; KHARLAMOV, M.T.; NIKOLENKO, G.D.; LOPUKHIN, A.F.; IEVDOKUNIN, T.F.; KASATKIN, V.M.; RATOV, A.V.

Nuclear radiation sources for radiational-chemical studies. Probl.fiz.khim. no.1:61-72 '58. (MIRA 15:11)

1. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. Karpova.
(Radiochemistry) (Radioisotopes)

NIKOLENKO, Grigoriy Filimonovich; KOROL', A., red.; KAGIBIN, P., tekhn. red.

[On the virgin land] Na tselinnoi. Alma-Ata, Kazsel'-khozgiz, 1962. 82 p. (MIRA 16:5)

1. Direktor TSelinnogo nauchno-issledovatel'skogo instituta mekhanizatsii sel'skogo khozyaystva (for Nikolenko).
(Kazakhstan—Agriculture)

NIKOLAEV, G. I.

"The Theory of Calculating Shock Absorbers for Vibrating Machines."
Cand Tech Sci, Inst of Machine Science, Acad Sci USSR, 15 Dec 54.
(VM, 6 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556 24 Jun 55

NIKOLENKO, I. A.

Nikolenko, I. A. - "An investigation of semiconductors for measuring temperature", Sbornik nauch. statey studentov (Rost. n/D. in-t inzhenerov zh.-d. transporta, issue 18), Rostov na Donu, 1948, p. 12-11.

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

NIKOLAENKO, I.A.

Effect of glucose on respiration in a living gastric mucosa. Trudy Stal.med.inst. 27:93-94 '57 (MIRA 11:9)

(GLUCOSE)
(RESPIRATION)
(STOMACH, MUCOUS MEMBRANE)

L 07357-67 EWT(1) SCTR DD

ACC NR: AP6012174 SOURCE CODE: UR/0413/66/000/007/0107/0107

AUTHORS: Artemenko, A. I.; [illegible], M. O.; Kocherga, V. K.; Mukhin, V. A.; Nikolenko, I. I.; [illegible], I. Ya.; Shevchenko, Yu. A.

37
B

ORG: none

TITLE: Mining isolating lifesaver. Class 61, No. 180491 [announced by Central Scientific Research Laboratory for Mining Rescue Work (Tsentral'naya nauchno-issledovatel'skaya laboratoriya po gornospasatel'nomu delu)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 107

TOPIC TAGS: life support equipment, mining engineering, air

ABSTRACT: This Author Certificate presents a mining isolating lifesaver containing a rechargeable cartridge, a breathing tube, a breathing bag, and a case (see Fig. 1). To insure the automatic performance of the starting assembly when the lid of the case is removed and the liquid of the starting ampule is set in a directed motion, the lifesaver is provided with a starting briquet, a rubber ampule with an internal blade for cutting it open, a striker pressed into the arch of the ampule, a spring, fixing balls, and a hood connected elastically to the lid of the case. To diminish the decomposition of the reagent containing oxygen in the rechargeable cartridge during transportation and wearing of the lifesaver, the rechargeable cartridge may

 UDC: 614.894.[illegible]

[illegible].31

Apparat iskusstvennogo dykhaniya "gornospasatel' 2" (Artificial respiration apparatus "mine rescuer,2", by) I. L. Nikolenko, M. S. Didenko. Moskva, Ugletekhizdat, 195[illegible].

[illegible] p. illus., diagrs.

"Spisok ispol'zovannoy literatury" p. [illegible]

109200 S/044/61/000/002/005/015
C111/C222

AUTHOR: Nikolenko, I.V.

TITLE: New methods for the solution of statical problems for thin bars being not free

PERIODICAL: Referativnyy zhurnal, Matematika, no.2, 1961, 40, abstract 2B 194. ("Nauk.zap.Kyivs'k. un-t", 1957, 16, no.16, 251-257)

TEXT: In the present paper it is shown that the geometrical methods elaborated by V.V.Vagner (Tr.seminara po vektorn.i tenzorn. analizu, 1941, vyp V) and the method of non-holonomous coordinates can be used for the solution of problems of statics.

[Abstracter's note: Complete translation.]

/C

Card 1/1

NIKOLENKO, I.V.

Differential equations of the equilibrium of free and nonfree thin rods. Visnyk Kyiv. un. Ser. astron., mat. ta mekh. no. 1:47-56 '58. (MIRA 14:5)

(Elastic rods and wires)

ACC NR: AR6016447 (N) SOURCE CODE: UR/0124/65/000/012/A010/A010

AUTHOR: Nikolenko, I. V.

TITLE: Effect of nonholonomic connections on the nature of equilibrium and steady-state motion of systems

SOURCE: Ref. sh. Mekhanika, Abs. 12A96

REF SOURCE: Sb. Dinamika sistem tverdykh i shidkikh tel. Kiev, 1965, 43-48

TOPIC TAGS: gyroscope system, motion mechanics, motion stability

ABSTRACT: The author establishes conditions under which it is possible to stabilize the equilibrium position and steady-state motion of a certain class of systems by using nonholonomic connections for limiting their motion. It is shown that the conditions for nonholonomic stabilization of the steady-state motion of a system with nonhomogeneous nonholonomic connections coincides with the known conditions for gyroscopic stabilization of the systems. Bibliography of 3 title. [Translation of abstract]

SUB CODE: 17

Card 1/1

NIKOLENKO, I.V.

•Effect of nonholonomic connections on the equilibrium characteristics of a system. Prikl. mekh. 1 no.10: 65-71 '65. (MIRA 18:12)

1. Kiyevskiy gosudarstvennyy universitet. Submitted October 8, 1964.

L 07617-67 EWT(d)/EWT(l) IJP(c)

ACC NR: AP6024328 SOURCE CODE: UR/0021/66/000/004/0448/0451

AUTHOR: Nikolenko, I. V.

ORG: Kiev State University (Kyyivs'kyy derzhavnyy universytet)

TITLE: Conditions of nonholonomous stabilization of steady motion in some systems

SOURCE: AN UkrRSR. Dopovidi, no. 4, 1966, 448-451

TOPIC TAGS: system stabilization, motion mechanics

ABSTRACT: In many cases nonholonomous systems can have dynamic properties close to those of gyroscopic systems. The present paper demonstrates that conditions under which stabilization is possible for steady motion in some systems by imposing nonholonomous links on them coincide with conditions of gyroscopic stabilization of the systems. The systems studied are those whose motion is restricted by nonholonomous links of the form

$$\dot{q}_s = \sum_{l=m+1}^{N} B_l^s \dot{q}_l + C^s, \quad (s = 1, 2, \ldots, m) \qquad (1)$$

where B_j^s, C^s are known functions of parameters $q_{m+1}, q_{m+2}, \ldots, q_N$. It is assumed that kinetic and potential energies of the system do not depend on $q_1, q_2, \ldots, q_m$.

Card 1/2

NIKOLENKO, K.F., inzh.-konstruktor; CHUMAKOV, S.M., inzh.

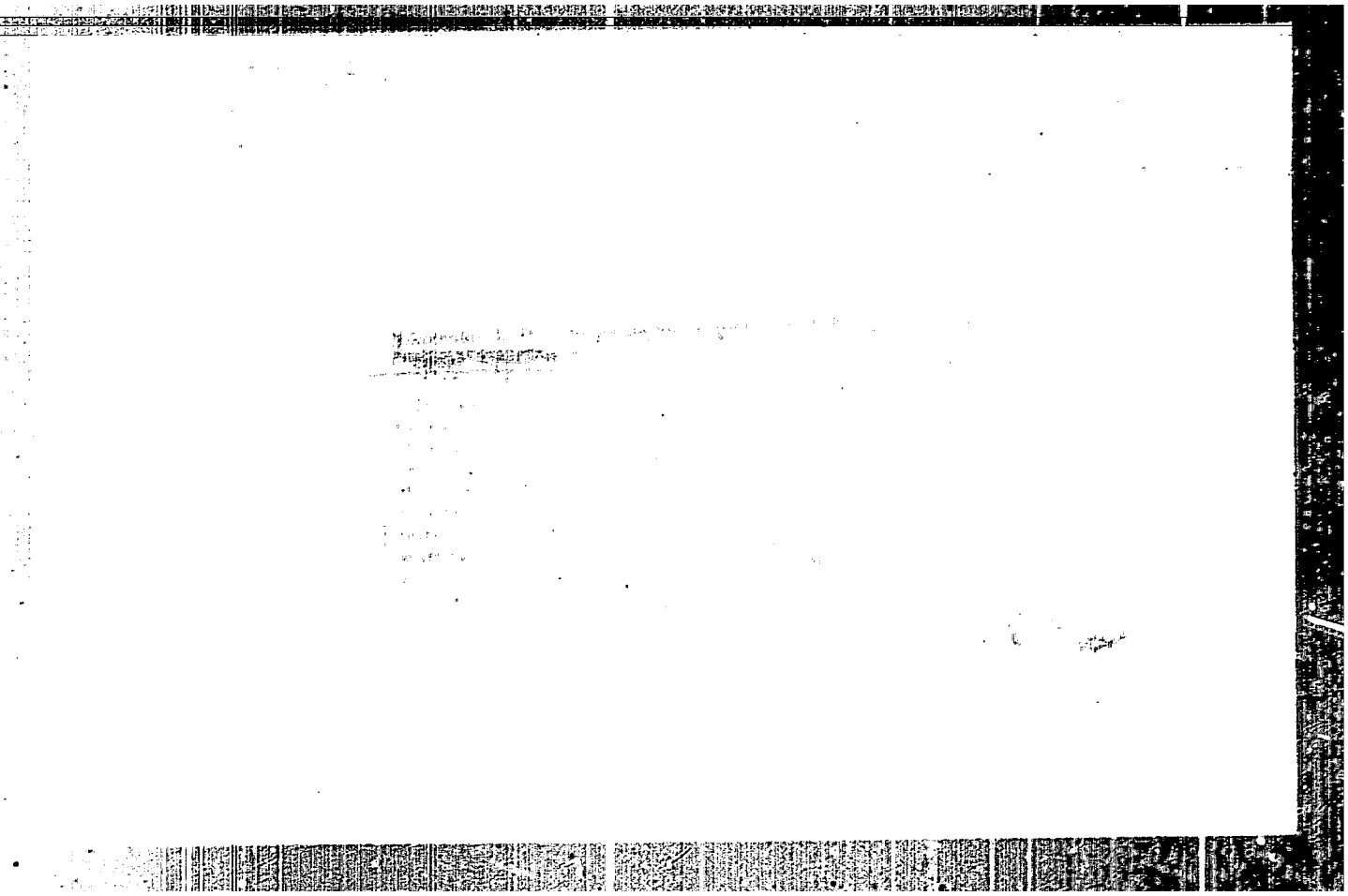
Automatic low-voltage installations for mine drainage systems.
Ugol' 37 no.8:45 Ag '62. (MIRA 15:9)

1. Yasinovskoye shakhtoupravleniya i Trest Oktyabr'ugol'.
(Mine drainage) (Electricity in mines)

NIKOLENKO, K.K.

Secondary implantation of the ovum into the abdominal cavity following tubal abortion. Akush. i gin. 39 no.3:139 My-Je '63 (MIRA 17:2)

1. Iz Kashirskoy rayonnoy bol'nitsy (glavnyy vrach Ya.M. Kozhevnikov) Pavlodarskoy oblasti.



NIKOLENKO, L.D.

Name: NIKOLENKO, L. D.,

Dissertation: Some new criteria of nonfluctuation in the solution of linear differential equations

Degree: Cand Phys-Math Sci

Defended at: Acad Sci Ukrainian SSR, Inst of Mathematics

Publication Date, Place: 1956, Kiev

Source: Knizhnaya Letopis', No 45, 1956

. Doklady Akad. Nauk 110, 929-931 (1956) CARD 2/2 PG - 627

$$\int_{\infty} \varphi_{p+1}(x)\,\varphi_p(x)\,dx < \infty$$

then every non-trivial solution of the equation

$$y'' + f(x)y = 0 \quad , \quad x \geq x_0$$

is non-oscillating.
(Compare: M.Ziemal, Chsopis Pěst.Mat.Fys. 75, 4, 213, (1950)).

INSTITUTION: Math.Inst.,Acad.Sci. Ukrain. SSR.

20-11A-3-9/60

AUTHOR: Nikolenko, L. D.

TITLE: Some Criteria for the Non-Oscillation of a Differential Equation of the Fourth Order (Nekotoryye kriterii nekolebatel'nosti differentsial'nogo uravneniya chetvertogo poryadka)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 3, pp. 483-485 (USSR)

ABSTRACT: The present paper generalizes in the known sense the results obtained by L. D. Nikolenko (Ref 1) for a differential equation of the second order to the differential equation of the fourth order: $(d^4y/dx^4) + (d/dx)\left[a(x)y'\right] + b(x)y = 0$; $x_0 \leqslant x < \infty$. The functions a(x) and b(x) are here assumed to be real and steady for $x \geqslant x_0$. According to R. Sternberg (Ref 2) the following is necessary for the non-oscillation of the equation of the fourth order: Beginning with a certain sufficiently large x_0, any nontrivial solution of this differential equation must not have more than one double zero at $x \geqslant x_0$. At first a lemma is given, which is analogous to the comparison theorem by Sturm for the differential equation of second order. The fol-

Card 1/3

NIKOLENKO, L. D.

28707
S/021/61/000/008/002/011
D210/D303

16.6800 (1158, 1327, 1034)

AUTHORS: Feshchenko, S.F., and Nikolenko, L.D.

TITLE: Calculations connected with asymptotic splitting of a system of ordinary linear differential equations on quick response computers

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 8, 1961, 990-993

TEXT: The discussion of a system of linear differential equations of high order is considerably simplified if one applies initially a transformation which splits the system into several independent systems of the lower order. If the coefficients of the given system

$$\frac{dx}{dt} = A(t)\,x(t),\quad 0 \leqslant t \frac{h}{\varepsilon} \qquad (1)$$

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Calculations connected with ...

- x(t) being an n-dimensional vector, A(τ) a matrix of the order (n,n) - depend in a certain manner on t and on the parameter $\varepsilon > 0$, i.e. are functions of $\tau = \varepsilon t$, the splitting is performed with the aid of the well-known asymptotic method by S.P. Feshchenko (Ref. 1: Doct.diss. K, 1950) and Kh.L. Territin (Ref. 2: Matematika 1 : 2, 29 (1957)). The present paper proposes a method which makes it possible to split the system (1) on quick response computers. It is not necessary to know all the eigenvalues of the matrix A (τ) which is especially useful in the cases of nearly equal or multiple (at certain values of τ) roots of the characteristic equation. 1) Let the factor decomposition of the characteristic polynominal $D(\lambda)$ be known for any τ from the interval $0 \leq \tau \leq h$:

$$D(\lambda) = \prod_{i=1}^{k} D_i(\lambda) \qquad (2)$$

where

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D210/D303

Calculations connected with ...

$$D_i(\lambda) = \lambda^{m_i} + a_{i1}\lambda^{m_i-1} + \ldots + a_{m_i-1,i}\lambda + a_{m_i i}, \quad \sum_{i=1}^{k} m_i = n \qquad (3)$$

It is supposed that the degree of each factor does not change in the whole interval $0 \leq \tau \leq h$, all factors are prime to each other, and each one of them may have nearly equal or multiple roots at some values of τ. The factors (3) can be obtained by determining all isolated eigenvalues of $A(\tau)$ and finding the factor which corresponds to the rest of the roots. It is known that in a manner corresponding to (2), the n-dimensional space R can be decomposed into a direct sum of k subspaces invariant with respect to $A(\tau)$; in the basis formed by linearly independent vectors of these subspaces, $A(\tau)$ has a quasi-diagonal form

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Calculations connected with ...

$$X^{-1}A(\tau)X = [A_1(\tau), A_2(\tau), \ldots A_k(\tau)] \qquad (4)$$

X being the matrix of transformation to new coordinates, $A_i(\tau)$ ($i = 1,2 \ldots k$) - constituent matrices of the order n_i. This decomposition can be found with the aid of the operators of "parallel projection" $P_i(\tau)$ ($i = 1,2 \ldots k$) i.e. operators having the following properties:

$$P_i^2(\tau) = P_i(\tau),\ P_i(\tau)P_j(\tau) = 0\ (i \neq j),\ \sum_{i=1}^{k} P_i(\tau) = E \qquad (5)$$

E being the unit matrix. The operators $P_i(\tau)$ are determined for every τ. If one knows the operators $P_i(\tau)$ one can find the

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bases of corresponding subspaces. It is sufficient to use the fact that $P_i(\tau)$ makes equal to 0 any vector which does not belong to the subspace $P_i(\tau)$ R, i.e. one can take as a basis of $P_i(\tau)R$ the orthonormalised solutions of the algebraical system

$$[E - P_i(\tau)]X_i = 0 \qquad (8)$$

2) According to the expansion Equation (2) one must look for the solution of Equation (1) having the form

$$x(t,\varepsilon) = \sum_{i=1}^{k} U_i(\tau,\varepsilon)\xi_i(t,\varepsilon) \qquad (9)$$

$U_i(\tau,\varepsilon)$ being a matrix of the rank (n,m_i) and $\xi_i(t,\varepsilon)$ an n-dimensional vector satisfying

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$$\frac{d\xi_i}{d\tau} = A_i(\tau)\xi_i(t,\varepsilon),\ i = 1,2,\ \ldots,\ k \qquad (10)$$

$A_i(\tau)$ is a matrix of the rank $(n_i,\ n_i)$. The unknown matrices $U_i(\tau,\varepsilon)$ in the relation Eq. (9) are determined. The elements of the expansions

$$U_i(\tau,\varepsilon) = \sum_{s=0}^{\infty}\varepsilon^s U_i^{(s)}(\tau),\quad A_i(\tau,\varepsilon) = \sum_{s=0}^{\infty}\varepsilon^s A_i^{(s)}(\tau) \qquad (12)$$

can be found from the system of algebraical equations

$$A(\tau)\,U_i^{(0)}(\tau) - U_i^{(0)}(\tau)A_i^{(0)}(\tau) = 0 \qquad (13)$$

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Calculations connected with ...

and

$$A(\tau)U_i^{(s)}(\tau) - U_i^{(s)}(\tau)\,A_i^{(0)}(\tau) = F_s(\tau) \qquad (14)$$

where

$$F_s(\tau) = U^{(0)}(\tau)A_i^{(s)}(\tau) + U_i^{(1)}(\tau)A_i^{(s-1)}(\tau) + \ldots +$$
$$+ U_i^{(s-1)}(\tau)A_i^{(1)}(\tau) + \frac{dU_i^{(s-1)}}{d\tau}$$

The matrix $U_i^{(0)}(\tau)$, as a basis of the n_i-dimensional subspace that is invariant with respect to $A(\tau)$ can obviously be determined

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27677
S/041/61/013/003/010/010
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16.6500

AUTHORS: Feshchenko, S. F., Nikolenko, L. D.

TITLE: On the problem of splitting a system of ordinary linear differential equations for calculation purposes

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, v. 13, no. 3, 1961, 109-113

TEXT: The authors split the system of equations $dx/dt = A(\tau)x$, $\tau = \varepsilon t$ (1) into two systems: $d\xi_1/dt = \Lambda(\tau,\varepsilon)\xi_1$, $d\xi_2/dt = W(\tau,\varepsilon)\xi_2$ (5), (6) which can be solved by means of rapid computers. Λ is a diagonal matrix. This splitting is made by two matrices $U_1(\tau,\varepsilon)$ and $U_2(\tau,\varepsilon)$: $x = U_1\xi_1 + U_2\xi_2$. In order to determine U_1 and U_2 the authors solve the two equations: $\varepsilon dU_1/d\tau + U_1\Lambda = AU_1$, $\varepsilon dU_2/d\tau + U_2W = AU_2$ (7), (7') in the following way: equation (7) is solved according to B. I. Rabinovich and I. M. Rapoport (O dvizhenii tverdogo tela s polostyami,

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On the problem of splitting ...

chastichno sopolisanyad shidhost'yu, 1960); equation (7') is solved by series expansion with respect to the small parameter ε:

$U_2(\tau,\varepsilon) = \sum_{s=0}^{\infty} \varepsilon^s U_2^{(s)}(\tau)$ (8), $W(\tau,\varepsilon) = \sum_{s=0}^{\infty} \varepsilon^s W^{(s)}(\tau)$ (9). $U_2^{(s)}$ and $W^{(s)}$ are determined from the equations:

$AU_2^{(s)} - U_2^{(s)}W^{(0)} = F_s$, (11) $F_s = U_2^{(0)}W^{(s)} + U_2^{(1)}W^{(s-1)} + \ldots + U_2^{(s-1)}W^{(1)} + dU_2^{(s-1)}/d\tau$, $(s = 1, 2, \ldots)$, $F_0 = 0$. The following result is obtained:

$U_2^{(s)} = d_1(A)\left[A^{m_2-1}F_s + A^{m_2-2}F_sV_1 + \ldots + AF_sV_{m_2-2} + F_sV_{m_2-1}\right]$. The matrices V are calculated according to the recurrence formulas $V_1 = W^{(0)} + a_1E$, $V_2 = V_1W^{(0)} + a_2E$, $V_{m_2-1} = V_{m_2-2}W^{(0)} + a_{m_2-1}E$. The numbers $a_1, a_2, \ldots, a_{m_2-1}$ are the coefficients of a polynomial $D_2(\lambda) = D(\lambda)/D_1(\lambda)$. $D(\lambda)$ is the characteristic polynomial of A; D_1 is the factor of D which has only isolated roots. The polynomial $d_1(\lambda)$ is defined by the representation:

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On the problem of splitting ...

$1/D = d_1/D_1 + d_2/D_2$. The authors mention S. P. Peshchenko (Thesis 1950) and Yu. L. Daletskiy (DAN SSSR, t. XCII, No. 5, 1953). There are 4 Soviet and 1 non-Soviet references.

SUBMITTED: February 20, 1961, Kiyev

Card 3/3

FEDORCHENKO, D. F.; NIKOLENKO, L. D. (Kiev)

"Asymptotische Zerlegung eines Systems linearer Differentialgleichungen und einige Anwendungen auf die Theorie der Schwingungen mechanischer Systeme."

report presented at the 3rd Conf on Nonlinear Oscillations, E. Berlin, 25-30 May 64.

ACCESSION NR: AP4040769 S/0021/64/000/006/0745/0748

AUTHOR: Mikolenko, L. D.

TITLE: The effect of the non-sphericity of the earth on the motion of a satellite

SOURCE: AN UkrSSR. Dopovidi, no. 6, 1964, 745-748

TOPIC TAGS: non-spherical earth, earth shape, satellite orbit perturbation, satellite motion, non-central gravitational field, satellite orbit

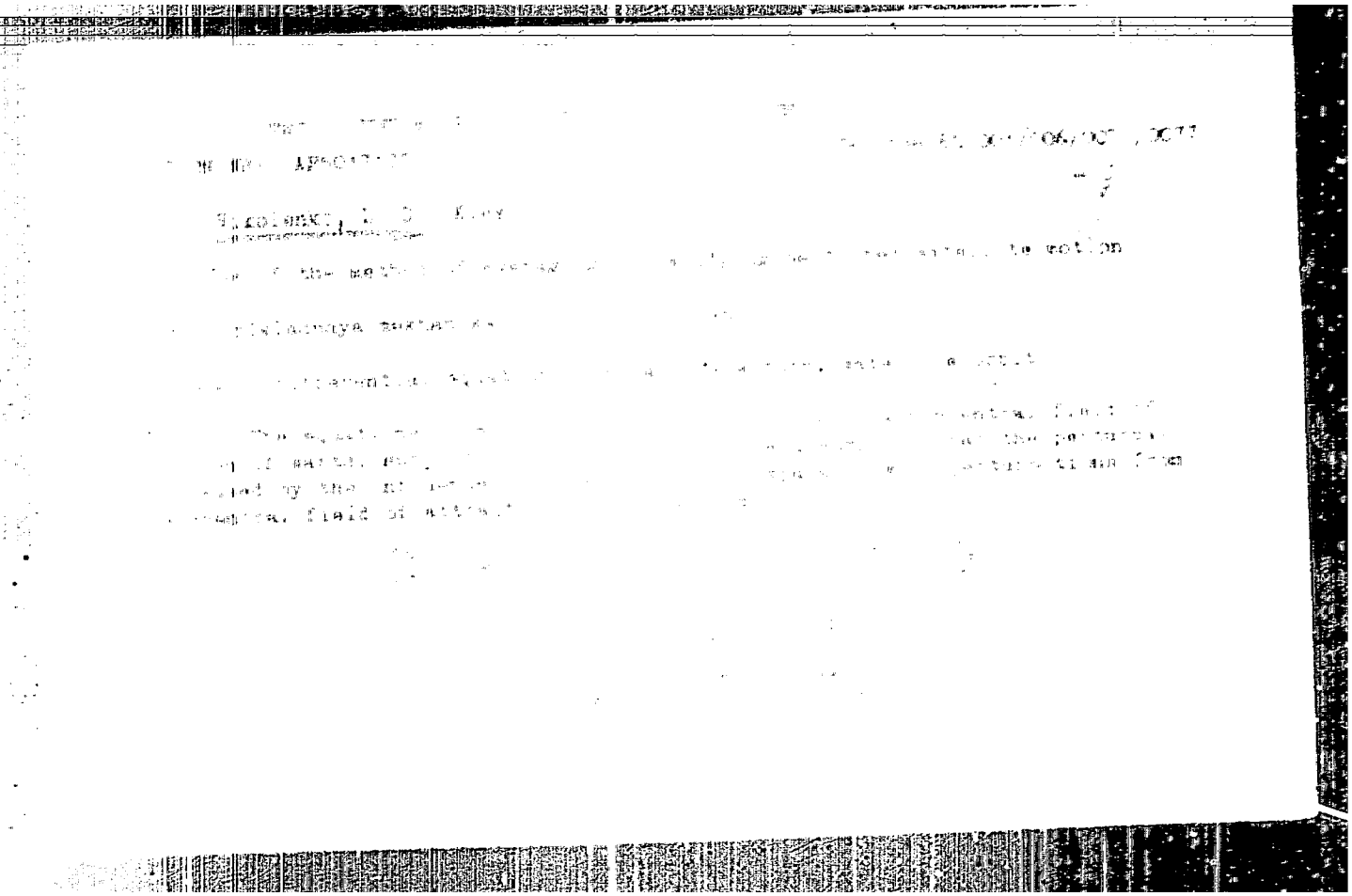
ABSTRACT: Results are presented of an analytical investigation of the motion of an artificial earth satellite in a non-central gravity field. An approximate solution is obtained by the method of averaging due to N. N. Bogolyubov and Yu. A. Mitropol'skiy [Asimptoticheskiye Metody V Teorii Nelineynykh Kolebaniy Fizmatgiz, 1958]. Orig. art. has 12 numbered equations.

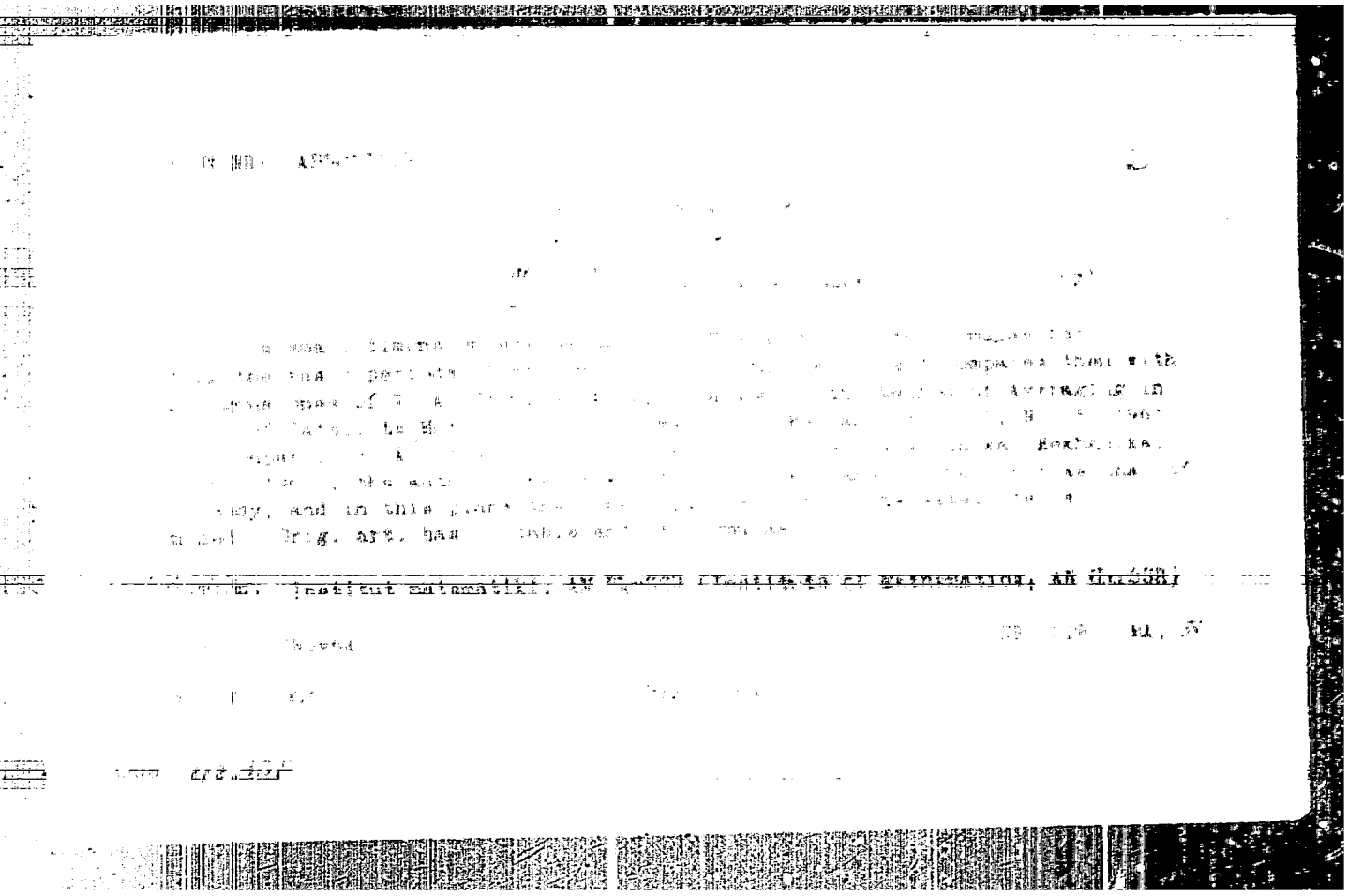
ASSOCIATION: Institut matematiki AN UkrSSR (Institute of Mathematics, AN UkrSSR)

SUBMITTED: 03Apr63 ENCL: 00

SUB CODE: SS,SV NO REF SOV: 002 OTHER: 000

Card 1/1





NIKOLAENKO, Leonid Konstantinovich; SOKOLOV, Vsevolod Ivanovich; GOSTEV, V.V., inzhener, retsenzent; IVANOV, M.I., inzhener, retsenzent; ROZHDESTVENSKAYA, N.P., izdatel'skiy redaktor; ZHDANIN, I.N., tekhnicheskiy redaktor

[The assembling of jet engines] Sborka reaktivnykh dvigatelei. Moskva, Gos. izd-vo oborn. promyshl., 1956. 278 p. (MLRA 9:10)
(Airplanes--Turbojet engines)

NIKOLENKO, Leonid Konstantinovich; SOKOLOV, Vsevolod Ivanovich; MELOV, A.M., dokter tekhn. nauk, prof., retsenzent; KRCHAYEV, S.I., inzh., retsenzent; KOLOSOV, N.A., red.; ANTONOVA, S.D., red.izd-va; NOVIK, A.Ya., tekhn. red.

[Manual for the assembly of gas-turbine engines] Posobie dlia slesaria-sborshchika gazoturbinnykh dvigatelei. Moskva, Oborongiz, 1963. 262 p. (MIRA 17:1)

AM4037980 BOOK EXPLOITATION S/

Nikolenko, Leonid Konstantinovich; Sokolov, Vsevolod Ivanovich

Manual for assemblers of gas turbine engines (Posobiye dlya slesarya-sborshchika gazoturbinnykh dvigateley), Moscow, Oborongiz, 1963, 262 p. illus., biblio. Errata slip inserted. 4,500 copies printed. Textbook for production workers. Series note: Bibliotechka rabochego aviatsionnoy promyshlennosti.

TOPIC TAGS: propulsion, turbojet engine, turboprop engine, gas turbine engine, engine construction

PURPOSE AND COVERAGE: The book describes the assembly of turbojet and turboprop engines and special tools, attachments, and equipment used in assembling aviation gas turbine engines. The authors assumed that the reader for which this book is intended is familiar with the mechanic specialty and therefore the general mechanical problems are not treated in this book. The book is a textbook for improving the qualifications of mechanics-assemblers of gas turbine engines.

TABLE OF CONTENTS [abridged]:

Ch. I. Organization of the assembly process — 3

Card 1/2

AM6037900

SUB CODE: IE SUBMITTED: 07Sep63 NR REF SOV: 004

OTHER: 000 DATE ACQ: 14Apr64

Card 2/2

NIKOLENKO, L. N.

NIKOLENKO, L. N. -- "Investigation in the Field of N-Substituted Sulfonamides." Sub 5 Mar 52, Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleyev. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

SOKOLSKIY, D.V. NIKOLENKO, L.E.

USSR 600

Diazonium Salts; Cuprous Acetylide

Interaction of diazonium salts with cuprous acetylide. Dokl. AN SSSR 82 no. 6:923-925 F '52. Khmelnitskiy Gosudarstvennyy Universitet im. S.M. Kirova rod. 21 Dec. 1951.

SO: Monthly List of Russian Accessions, Library of Congress, July 1952. Uncl.

NIKOLENKO L.N.; SOKOL'SKIY D.V.

Diazonium Slats; Cuprous Acetylide

Interaction of diazonium salts with cuprous acetylide. Dokl. AN SSSR 82 No.6:923-925 F'52
Kazakhskiy Gosudarstvennyy Universitet im. S.M. Kirova rcd. 21 Dec. 1951.

SO: Monthly List of Russian Accessions, Library of Congress, July 1952 4444, Unel.

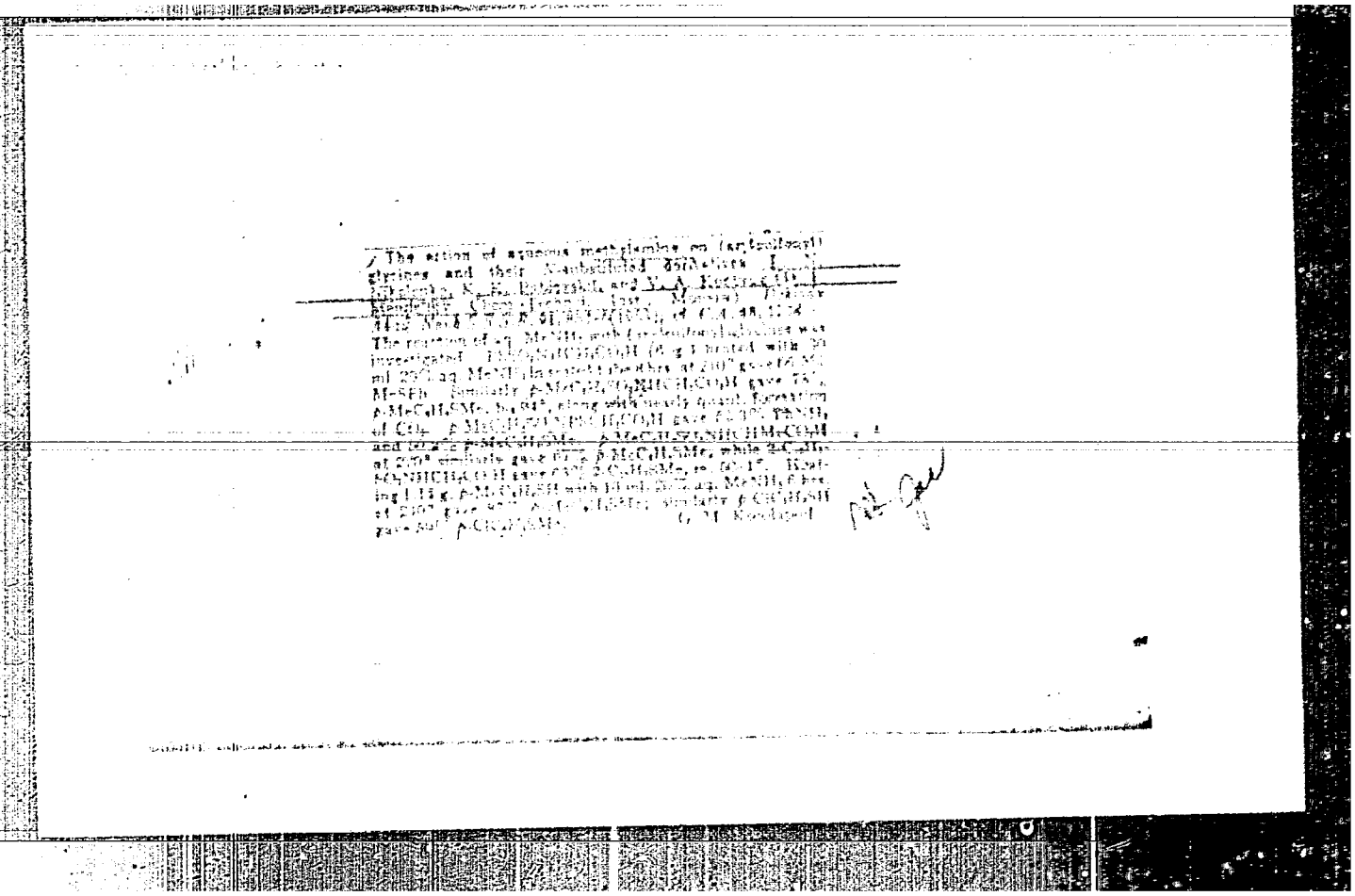
1. NIKOLENKO, L. E.

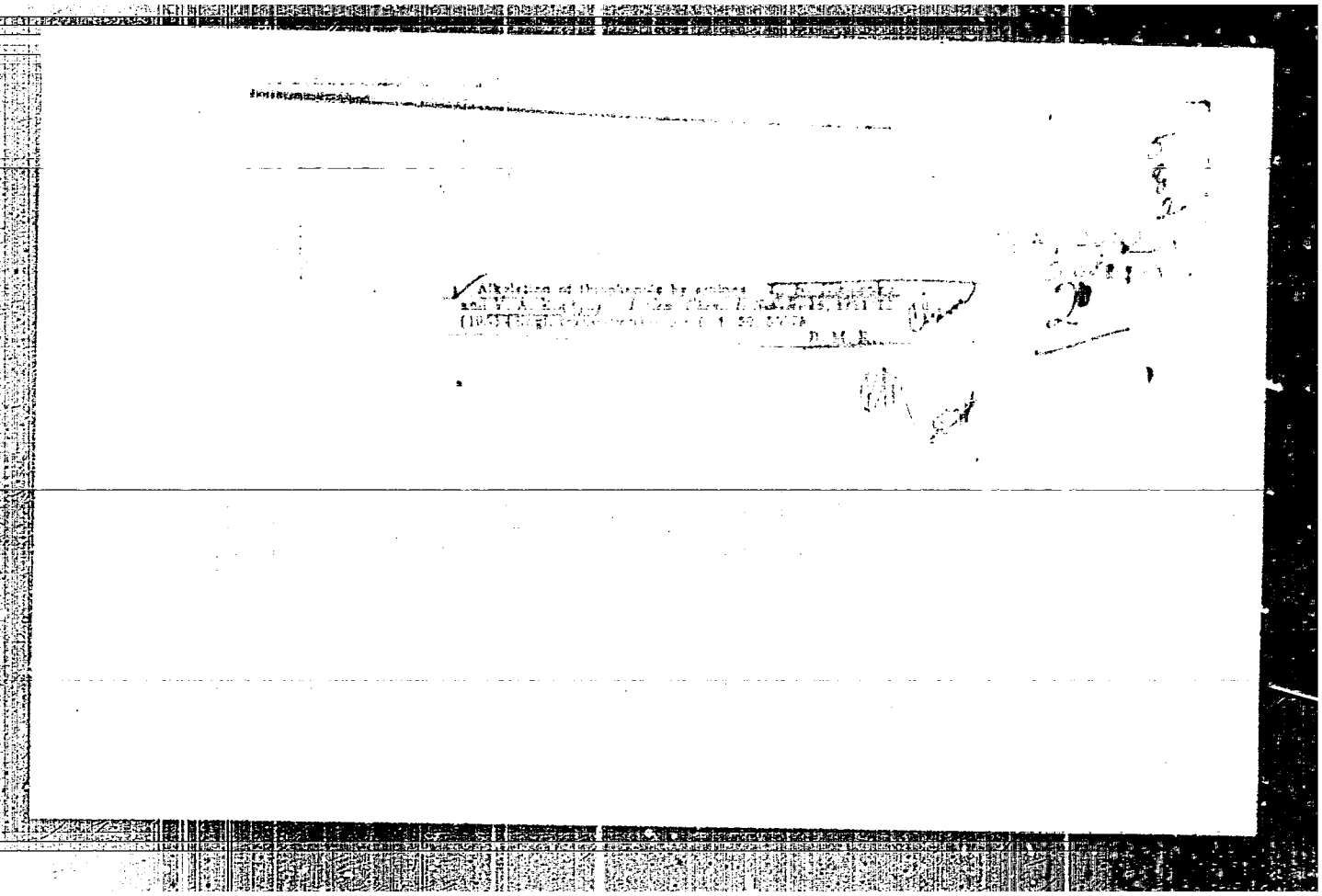
2. USSR (600)

4. Glycine Derivatives

7. Action of hydrous ammonia on arylsulfonylglycines and their N-substitutes. Dokl. AN SSSR 87 no 5, '52

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.



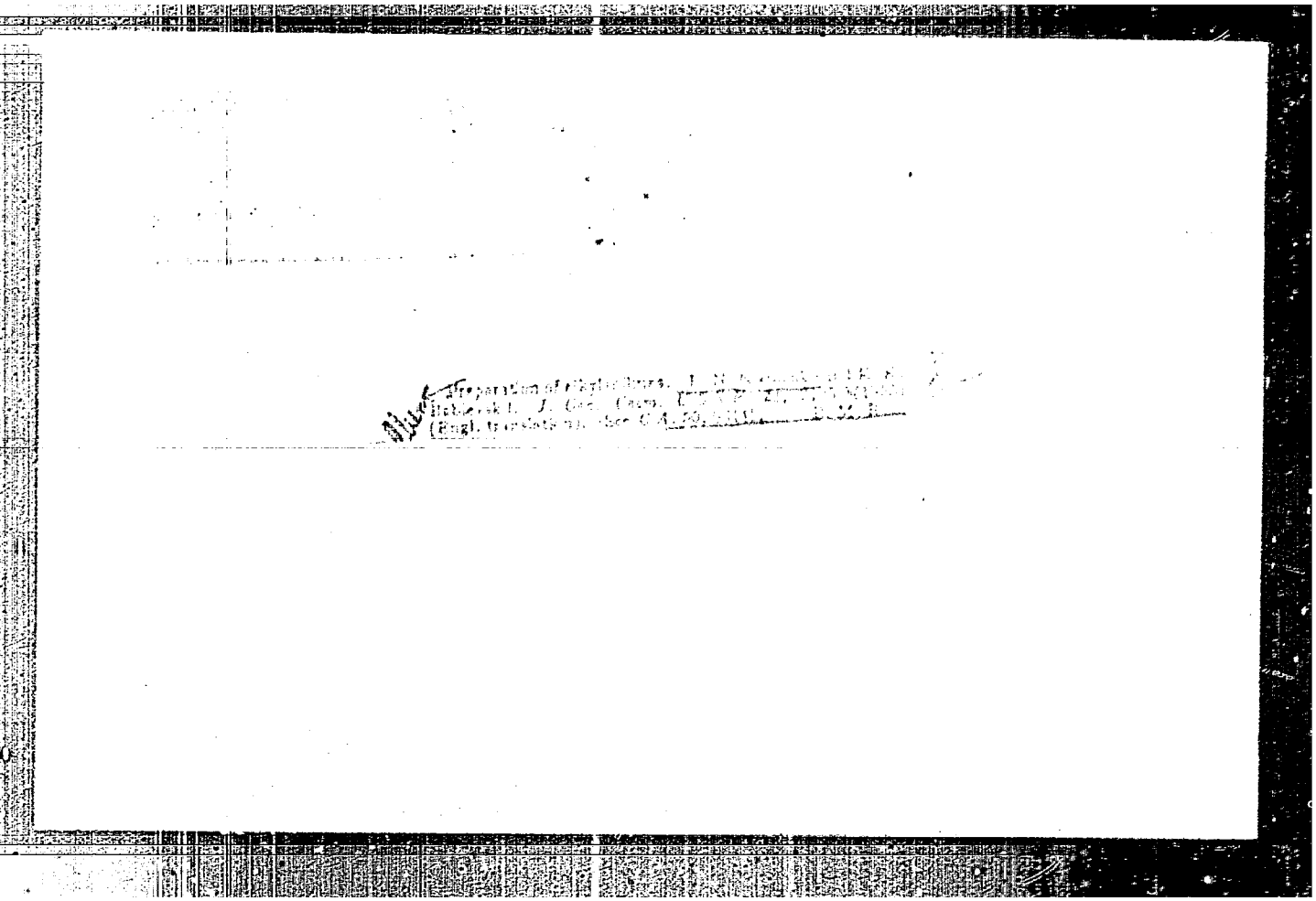


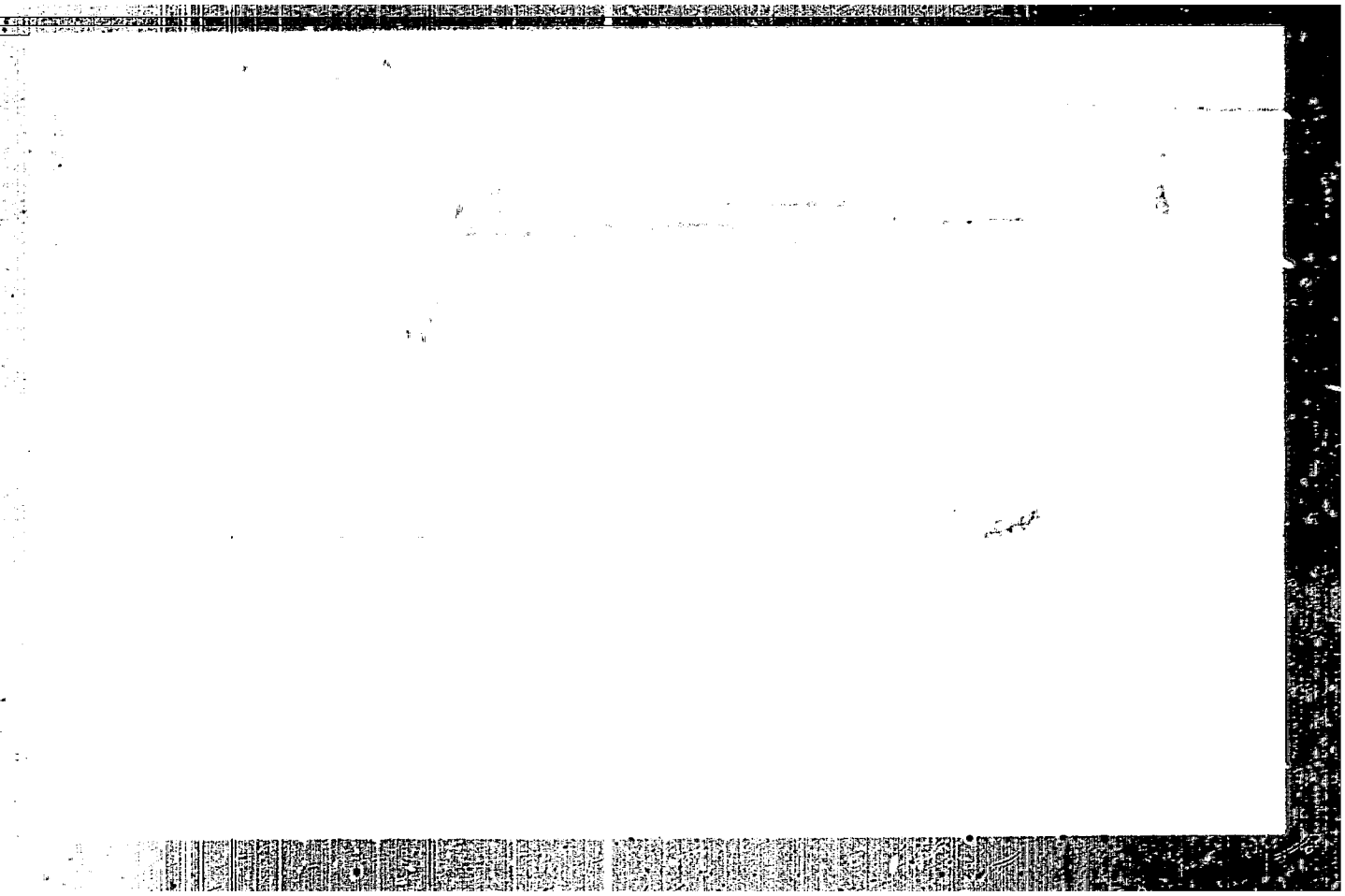
NIKOLAENKO, L.E.; KOPTYUG, V.A.

Alkylation of thiophenols with amines. Zhur.ob.khim. 25 no.9: 1757-1759 S '55. (MLRA 9:2)

1.Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

(Alkylation) (Thiols)





[redacted], L.E.

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1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

(Amino acids)