

ROMANKOV, P.G., prof.; BAO CHZHI-TSYUAN' [Pao Chih-ch'üan], kand.tekhn.nauk
KUROCHKINA, M.I.

Some problems on the theory and practice of extraction from solid
materials. Khim. nauka i prom. 3 no.4:506-511 '58.

(MIRA 11:10)

(Extraction (Chemistry))

PAVLOV, K.F., ROMANKOV, P.G., prof.; NOSKOV, A.A.; KUROCHKINA, M.I.,
red.; KOTS, V.A., red.; ERLIKH, Ye.Ya., tekhn.red.

[Examples and problems in a course on the processes and
equipment of chemical technology] Primery i zadachi po kursu
protseessov i apparatov khimicheskoi tekhnologii. Izd.4, dop.
i perer. Pod obshchei red. P.G.Romankova. Leningrad, Gos.
nauchno-tekhn.isd-vo khim.lit-ry, 1959. 573 p. (MIRA 13:2)
(Chemistry, Technical)

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507/30-32-10-1/51

AUTHORS: Simonova, L. K., Kurochkina, M. I.

TITLE: The VIII Mendeleev Conference on General and Applied Chemistry

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 10, pp 2129-2138 (USSR)

ABSTRACT: This conference was held March 16 to 23, 1959, in Moscow. The official delegates numbered 2,230, but some sessions were attended by as many as 11,000 people. More than 200 foreign chemists were present. Members of allied scientific disciplines also attended. Eleven papers were read at the plenary sessions and more than 1,500 at meetings of the 17 sections into which the conference was divided. The article lists the following Soviet personalities as presenting papers: Nesmeyanov, A. N., "D. I. Mendeleev's Periodic System and Organic Chemistry"; Spitsin, V. I., present status of D. I. Mendeleev's periodic law; Fedorov, V. S., scientific and technical progress in the chemical industry; Kargin, V. A., basic problems in

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polymer chemistry; Semenov, N. N., "Basic Problems in Chemical Kinetics"; Vinogradov, A. P., basic problems in radiochemistry; Sokolov, A. V., chemurgy; Syrdin, Ya. K., present state of the theory of valence; Aleksandrov, A. P., chemical aspects of the utilization of atomic energy; Nikolayev, V. B., basic problems of construction of chemical apparatus and equipment; Kazarnovskiy, I. A. (Moscow), mechanism of reactions of peroxide formation and their oxidizing effect; Makarov, S. Z. (Moscow), perhydrate forms of peroxides of group I and II metals; Vol'nov, I. I. (Moscow), Ca, Sr, and Ba peroxide compounds; Rode, T. V., Grishenkova, G. K., and Zachatskaya, A. V. (Moscow), reaction of sodium peroxide and superoxide with sodium carbonate and hydroxide; Lepeshkov, I. N. (Moscow), new physicochemical analyses of natural salts and aqueous-salt equilibria by the Kurnakov, N. S., school; Vol'fkovich, S. I., Postnikov, N. N., Ionass, L. A., Illarionov, V. V., and Remen, R. Ye. (Moscow), new method of thorough defluorination of unenriched ores; Chernyayev, I. I., Nazarova, L. A., and Orlova, V. S. (Moscow), sulfates, nitrates, and carbonates of platinum iodopentamine; Grinberg, A. A. (Leningrad), kinetics of complex formation and stability of

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complexes; Zvyagintsev, O. Ye., Kurbanov, A., Starostin, S. M. (Moscow), nitroso compounds of mercury; Ginzburg, S. I., Pshenitsyn, N. K., Sal'skaya, L. G. (Moscow), colored compounds of iridium; Shenderetskaya, Ye. V., Chernyayev, I. I. (Moscow), formates of monovalent rhodium; Deychman, E. P. (Moscow), indium oxalate and its compounds with oxalates of alkali metals; Lyutaya, M. D., Tananayev, I. V. (Moscow), hexanitronickelates of rare earths; Sheka, Z. A., Kriss, Ye. Ye., extraction of La, Nd, Y, and Yb nitrates from nitric acid solutions with solutions of di- and tributyl phosphate in CCl_4 ; Arbuzov, A. Ye., presided at one of the meetings of the agricultural chemistry section; Arbuzov, B. A., reported on the work of the Kazan' Branch of the AN SSSR on agricultural pesticides; Vol'fkovich, S. I. (Moscow), research on concentrated complex fertilizers at the Moscow State University; Chaylakhyan, M. Kh. (Moscow), Gibberella as growth promoters; Kedrov-Zakhman, O. K. (Moscow), effect of molybdenum on crop plants; Mel'nikov, N. N. (Moscow), synthesis of organophosphorus insecticides; Turchin, F. V. (Moscow), biological binding of atmospheric

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nitrogen; Lileyev, I. S. (Leningrad), silicates of alkali metals; Ginstling, A. M., Volkov, A. D. (Leningrad), thermochemical decomposition of calcium sulfate in crystalline mixtures; Kukolev, G. V., Mikhaylova, K. A. (Khar'kov), effect of surface-active additives on refractories; Budnikov, P. P., Savel'yev, V. G. (Moscow), barium monoaluminate as a binder for refractory cements; Voronin, N. I., Krasotkina, N. I., Smirnova, V. A. (Leningrad), carborundum; Matsynin, Ye. V., Okorokov, S. D. (Leningrad), portland cement clinker; Rashkovich, L. N., Butt, Yu. (Krasnoyarsk), mechanism of binder formation during autoclave treatment of lime-sand products; Tikhonov, V. A., Shpynova, L. G. (L'vov), phase composition of portland cement; Vargin, V. V., Karapetyan, G. O. (Leningrad), absorption spectra, luminescence, and photochemical properties of cerium glasses; Avgustinik, A. I. (Leningrad), formation of finely dispersed crystalline phase from the vitreous one; Nikolayeva-Fedorovich, N. V., Petriy, O. A., Frumkin, A. N. (Moscow), polarographic behavior of platinum-halide complexes; Loshkarev, M. A., Chernobayev, I. P., Tomilov, B. I. (Dnepropetrovsk), intermediates in electrochemical processes; Kartashova, K. M.,

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Sukhotin, A. M. (Leningrad), dynamic method of determining electrode capacity; Semchenko, D. P., Il'in, K. G. (Novocherkassk), electrochemical formation of higher oxygen compounds of chlorine; Gritsan, D. N., Shun, D. S. (Khar'kov), effect of detergents on the electrodeposition of metals; Kudryavtsev, N. T., Smolenskaya, G. N., Karatayev, V. M., Golovchanskaya, R. G. (Moscow), titanium plating; Lantratov, M. F., Alabyshev, A. F. (Leningrad), new, easily melting electrolyte for obtaining metallic sodium; Planovskiy, A. N. (Moscow), was chairman of the section of apparatus and processes, and gave a paper on the present state of this subject; Gukhman, A. A. (Moscow), theory of similitude; Romankov, P. G. (Leningrad), examples of the use of the theory of similitude in chemical technology; Todes, O. M. (Leningrad), hydrodynamics of fluidized bed; Mukhlenov, I. P. (Leningrad), analysis of equations of fluidized bed hydrodynamics; Gzovskiy, S. Ya. (Moscow), study of the process of mixing; Pavlushenko, I. S. (Leningrad), performance of mixers; Semenov, P. A. (Moscow), mechanism of mass exchange of gas and liquid at their interface; Lastovtsev, A. M. (Moscow), distribution by drop size in an atomized liquid; Varlamov, M. L. (Odessa), purification of gases by sound; Zhuzhikov, V. A., theoretical analytical methods suitable for studying filtration

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processes; Gol'din, Ye. M. (Leningrad), movement of material in centrifuges; Kaminskiy, S. (Moscow), new types of centrifuges; Aynshteyn, V. G., Kruglikov, V. Ya., Gel'perin, N. I., Rapoport, I. B. (Moscow), heat exchange between fluidized bed and a single pipe at different angles to the flow; Nikolayev, P. I., Planovskiy, A. N. (Moscow), experimental determinations of coefficients of local heat emission by a pipe in a fluidized bed; Telukhin, N. K., Ivanov, M. Ye., Vishnev, I. P., heat exchange during boiling and condensation of O_2 , N_2 , and Ar; Bassel', A. B., Sakhiyev, A. S., heat exchange design; Mazyukevich, I. V. (Leningrad), heat exchange in condensation of NH_3 ; Berman, L. D. (Moscow), mass exchange mechanism; Lykov, A. V., application of Onzager's theory to the investigation of heat and mass exchange processes; Kafarov, V. V. (Moscow), mathematics of mass transfer; Poplavskiy, Yu. V. (Moscow), tray apparatus; Rozen, A. M. (Moscow), large-diameter slotted trays; Aksel'rod, L. S. (Moscow), Moskov, A. A. (Leningrad), sieve rectification plates; Malyusov, V. A., Umnik, N. N., Zhavoronkov, N. M. (Moscow), multistage molecular distillation; Dobroserdov, L. L. (Leningrad), separation of azeotropic mixtures; Usmanov, A. G. (Kazan'), kinetics

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of molecular transfer in gases; Traynina, S. S., Aerov, M. E., Nikitina, N. I. (Moscow), electrohydrodynamic analogy in the study of chemical apparatus; Gel'perin, N. I. (Moscow), extraction from solutions in counterflow injection columns; Karpacheva, S. M., Rosen, A. M., operation of pulsing columns; Kagan, S. Z., Aerov, M. E., extractors with mechanical mixing of phases; Lur'ye, M. Yu. (Moscow), drying in the chemical industry; Nesmeyanov, A. P., and S. S. (Moscow), gave a series of papers on the chemistry of ferrocene; Karpeyskaya, Ye. A., Tovstopyatova, A. A., Baibazin, A. A. (Moscow), rhenium as a catalyst of organic reactions; Mamedaliev, Yu. G. (Baku), new technological process of chlorinating hydrocarbons in fluidized bed of catalyst; Tsukervanik, I. P. (Tashkent), metal powders as catalysts; Kargin, V. A., Kabanov, V. A., Marchenko, I. Yu. (Moscow), obtaining isotactic polystyrene by polymerizing styrene over Vigler's catalyst; Ushakov, S. N. (Leningrad), new cross-linking agents for polymerization: Vansheydt, A. A., Kuznetsova, N. N. (Leningrad), polycondensation of phenoxyacetic acid with formaldehyde in the synthesis of ion exchange resins; Zubov, V. P. (Moscow), polymerization

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of styrene in the presence of certain halogens; Losev, I. P., Datskevich, L. A. (Moscow), synthesis of polyurethanes; Korshak, V. V., Sosin, S. L., Chistyakova, M. V. (Moscow), linear polymers from reactions of free radicals with unsaturated compounds; Andrianov, K. A. (Moscow), polyorganoaluminum siloxanes; Tarasova, Z. N., Kaplunov, M. Ya., Klauzen, P. A., Dogadkin, B. A., Karpov, V. L. (Moscow), kinetics of radiation vulcanization; Rogovin, Z. A., Derevitskaya, V. A. (Moscow), synthesis of new cellulose derivatives; Glukhov, N. A. (Leningrad), organo-metallic chelates; Sukhanov, V. P. (Moscow), petroleum as raw material for fuels and chemicals; Kravets, N. M. (Moscow), utilization of solid fuel; Lavrov, N. V. (Moscow), obtaining and using combustible gases; Kosheleva, L. M., Mekhtiyev, S. D., Pishnamezzade, B. F., Eybatova, Sh. E., Gashimova, F. A., investigated the derivation of cyclohexane and its closest homologs from Baku petroleum gasolene at the Petroleum Institute of the AzSSR Academy of Sciences; Fomina, A. S. Pobul', L. Ya. Degtereva, Z. A. (Tallin), chemical nature of Baltic shale kerogen; Kruglikov, A. A. (Nizhniy Tagil), isolation and utilization of dihydric phenols from the semi-locking and hydrogenation of Cheremkhov coal; Lebedev, V. V.

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(Khimki), new methods of producing hydrogen; Kruglikova, V. Ya., Pappoport, I. B., Volynskiy, A. V., Muzovskiy, V. V. (Moscow), high-yield synthesis of hydrocarbons from CO and H₂ over iron catalyst in a boiling and in a stationary layer; Petrov, A. D., Kaplan, Ye. P., Nefedov, O. M., Chel'tsova, M. A. (Moscow), C₁₈-C₄₀ polycyclic hydrocarbons; Sergiyenko, S. R., Lebedev, Ye. V., Mikhnovskaya, A. A. (Moscow), structure of high-molecular petroleum hydrocarbons; Isagulyants, V. I., Tishkova, V. N. (Moscow), synthesis of alkyl- and arylphenol additives for fuels and lubricating oils; Shuykin, N. I., Bekauri, N. G., Maslyanskiy, G. N. (Moscow), catalytic isomerization of paraffins; Khmel'nitskiy, Ye. M., Zimina, K. I., Polyakova, A. A., Nikitina, V. M. (Moscow), radiolysis of hydrocarbons; Geyman, M. A., Larin, A. D. (Moscow), synthesis of anionic surface-active substances from petroleum and related distillates. The conference adopted a general resolution exhorting Soviet chemists to greater creative efforts.

Card 9/9

KUROCHKINA, M.I.; ROMANKOV, P.G.

Kinetics of desorption from a porous adsorbent under conditions
of internal diffusion. Zhur. prikl. khim. 33 no.11:2497-2506
N '60. (MIRA 14:4)

1. Kafedra protsessov i apparatov Leningradskogo tekhnolo-
gicheskogo instituta imeni Lensoвета.
(Description)

KUROCHKINA, M.I.; ROMANKOV, P.G.

Kinetics of desorption from a porous adsorbent in a fluidized bed.
Zhur. prikl. khim. 33 no.12:2657-2664 D '60. (MIRA 14:1)

1. Kafedra professov a apparatov Leningradskogo tekhnologicheskogo
instituta imeni Lensoveta.
(Desorption)

PAVLOV, K.F.; ROMANKOV, P.G., prof.; NOSKOV, A.A.; KUROCHKINA, M.I., red.;
KOTS, V.A., red.; ERLIKH, Ye.Ya., tekhn. red.

[Examples and problems for a course on the processes and equip-
ment of chemical technology] Primery i zadachi po kursu protses-
sov i apparatov khimicheskoi tekhnologii. Izd.5., ispr. Pod ob-
shchei red. P.G.Romankova. Leningrad, Gos. nauchno-tekhn. izd-vo
lit-ry, 1961. 573 p. (MIRA 14:8)
(Chemistry, Technical)

ROMANKOV, P.G., prof., red.; KUROCHKINA, M.I., ved. red.; SAFRONOVA,
I.M., tekhn. red.

[Transactions of the All-Union Scientific and Technical
Conference on Problems of the Theory and Practice of Liquid
Extraction Processes] Trudy Vsesoiuznogo nauchno-tekhniche-
skogo soveshchaniia po voprosam teorii i praktiki protsessov
zhidkostnoi ekstraktsii, Leningrad, 1961. Leningrad, Gos-
toptekhizdat, 1963. 383 p. (MIRA 16:6)

1. Vsesoyuznoye nauchno-tekhnikeskoye soveshchaniye po vop-
rosam teorii i praktiki protsessov zhidkostnoy ekstraktsii,
Leningrad, 1961.

(Extraction (Chemistry))--Congresses) (Mass transfer)

ZYULKOVSKIY, Zdislav [Ziolkowski, Zdislaw]; PLISSA, A.V., inzh.
[translator]; ROMANKOV, P.G., prof., red.; KUROCHKINA,
M.I., red.; ERLIKH, Ye.Ya., tekhn. red.

[Liquid extraction in the chemical industry] Zhidkostnaia
ekstraktsiia v khimicheskoi promyshlennosti. Leningrad,
Goskhimizdat, 1963. 478 p. Translated from the Polish.
(Extraction (Chemistry)) (MIRA 16:9)

ROMANKOV, Petr Grigor'yovich; RASHKOVSKAYA, Nataliya Borisovna;
KUROCHKINA, E.I., red.

[Fluidized bed drying; theory, design and calculations]
Sushka v kipiashchem sloe; teoriia, konstruktsii, raschet.
Leningrad, Izd-vo "Khimiia," 1964. 287 p. (MIRA 17:8)

PAVLOV, K.F.; ROMANKOV, F.G.; NOZKOV, A.A.; KUROCHKINA, M.I.,
red.; KOTS, V.A., red.

[Examples and problems for the course on the processes and
apparatus of chemical technology] Primery i zadachi po kursu
protsessov i apparatov khimicheskoi tekhnologii. Izd.6.,
perer. i dop. Moskva, Khimia, 1964. 633 p. (MI:4 17:10)

1. Chlen-korrespondent AN SSSR (for Romankov).

KOZLOV, T.I., prepod.; KULINIKOVA, Ye.Ya., prepod.; KURGCHINA, M.I.,
prepod.; LEFILIN, V.N.; MEDVEDEV, A.A.; NOSKOV, A.A.
OVECHKIN, I.Ye.; PAVLUSHENKO, I.S.; PIYUSHKIN, S.A.;
RASHKOVSKAYA, N.B.; ROMANKOV, P.G.; KROLOV, V.F.; YABLONSKIY,
P.A.;

[Manual on practical work in the laboratory on the processes
and apparatus of chemical technology] Rukovodstvo k prakti-
cheskim zaniatiyam v laboratorii po protsessam i apparatam
khimicheskoi tekhnologii. Izd.2., ispr. i dop. Moskva,
Khimiia, 1964. 243 p. (MIRA 18:2)

KUROCHKINA, M.I.

Second All-Union Conference on the Study of Liquid Extraction
and Chemisorption Processes. Zhur. prikl. khim. 38 no. 10:
2391-2392 0 '65. (MIRA 18:12)

KURCCHKINA, N. A.

KURCCHKINA, N. A. -- "Antigenic and Anaphylactogenic Properties of the Proteins of Natural and Altered Enzymatic Hydrolysis of Antidiphtheria Serum." Sub 17 Apr 52, Acad Med Sci UCSR. (Dissertation for the Degree of Candidate in Medical Sciences.)

SO: Vechernaya Moskva January-December 1952

ZHDANOV, A.K.; KUROCHKINA, N.A.

Quantitative determination of cerium by cathodic and anodic methods of amperometric titration by means of an apparatus having a rotating platinum microelectrode. Uzb.khim.zhur no.3:15-24 '61. MIRA 14:11)

1. Tashkentskiy gosudarstvennyy universitet imeni V.I.Lenina.
(Cerium--Analysis)
(Conductometric analysis)

DAVIDOV, V.S., KHROMCHIKINA, N.M., FROLOVA, L.I.

Polarographic determination of peroxides. Sov. lab. J. no. 5:539-540 '64. (NIRA 17:5)

I. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov.

BUZLANOVA, M.M.; KUROCHKINA, N.A.

Polarographic determination of aluminium in waste waters.
Zav. lab. 31 no.8:947 '65. (MIRA 18:9)

1. Novokuybyshevskiy filial nauchno-issledovatel'skogo instituta
sinteticheskikh spirtey i organicheskikh produktov.

LAPAN, A.P.; KUROCHKINA, N.I.; VERESHCHAGINA, A.A.

Study of phenols from waste waters of semicoking by chromatographic
absorption analysis. Izv. Fiz.-khim. nauch.-issl. inst. Irk. un.
4 no.2:255-262 '59. (MIRA 16:8)

(Phenols) (Industrial wastes--Analysis)
(Chromatographic analysis)

BURCHINA, P.

Factory Sanitation

Comprehensive plan for improving working conditions. V per. profektiva 13, No. 13, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, SEPTEMBER 1952, Unclassified.

KUROCHKINA, R. F.

"The Vegetation of Cherkess Autonomous Oblast and Its Significance as Fodder." Cand Biol Sci, Tadzhik U, Stalinabad, 1953. (RZhBiol, No 8, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: Sum. No. 556, 24 Jun 55

ACCESSION NR: AP4020039

S/0032/64/0030/003/0281/0284

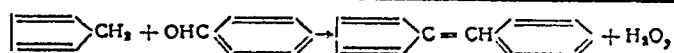
AUTHORS: Baranva, V. G.; Moskvin, A. F.; Kurochkina, T. F.

TITLE: Colorimetric determination of cyclopentadiene admixture in isoprene

SOURCE: Zavodskaya laboratoriya, v. 30, no. 3, 1964, 261-284

TOPIC TAGS: cyclopentadiene, isoprene, benzaldehyde, condensation, p
dinitrobenzene, phenylfulvene, optical density, colorimetric determination,
dianion

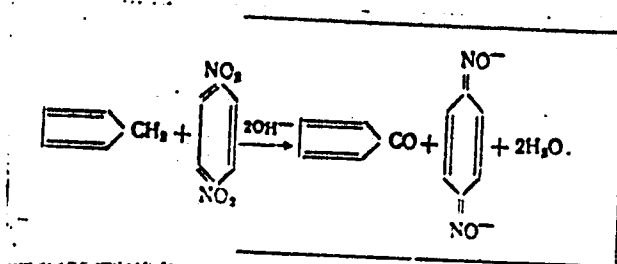
ABSTRACT: Since isoprene obtained from crude petroleum contains cyclopentadiene (CPD), which inhibits polymerization in amounts over 0.0005%, it is important to be able to determine it quantitatively. Two colorimetric methods were developed by the authors, the first one based on the condensation of CPD with benzaldehyde according to the reaction:



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while the second method was based on the reduction of dinitrobenzene by CPD:



In the first method, 8 ml of a 3% ethanol solution of KOH, 8 ml of the analyzed isoprene, and 9 ml of a 5% ethanol solution of benzaldehyde were placed in a 25-ml volumetric flask, mixed, and allowed to stand for 3 minutes. The optical density of the developing color was measured in the 400-550 millimicron range by means of an FEK-N photoelectrocolorimeter, with a sensitivity of $6 \times 10^{-4}\%$ and an average error of not over 20%. In the second method, 0.3-5.0 gm of isoprene, 0.5 ml of a

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0.25% solution of p-dinitrobenzene in dimethylformamide, and 0.5 ml of a 10% aqueous solution of KOH were placed in a 25-ml volumetric flask and brought up to the mark by dimethylformamide. After standing 5 minutes, the optical density of the color of the dianion was measured at 620 millimicrons. The sensitivity of the method was $2 \times 10^{-5}\%$, and the error did not exceed 20%. It took 20-25 minutes to perform the analysis. Orig. art. has: 1 chart, 3 tables, and 2 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo kauchuka (Scientific Research Institute of Monomers for Synthetic Rubber)

SUBMITTED: 00

DATE ACQ: 27Mar64

ENCL: 00

SUB CODE: CH

NO REF SOV: 000

OTHER: 002

Card 3/3

ACC NR: AR6026535

SOURCE CODE: UR/0372/66/000/004/G045/G045

AUTHOR: Kurochkina, T. K.; Terpugov, A. F.

TITLE: Experimental verification of target-search algorithms with the aid of human subjects

SOURCE: Ref. zh. Kibernetika, Abs. 4G314

REF SOURCE: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te, vyp. 47, 1965, 207-219

TOPIC TAGS: noise generator, *algorithm*, analog computer, simulation test, target seeker / GShN-1 noise generator, MN-7 analog computer

ABSTRACT: The article presents the findings of an experimental study of target-search algorithms with the aid of human subjects, on using a GShN-1 noise generator, a converter and an MN-7 analog computer. Normal HF noise was converted to LF and transmitted to an integrator. When the "start" button is pushed on the integrator the latest instantaneous value of noise is memorized. The quantity μ (target simulator) is then added to or subtracted from this value of noise, in an adder. The subject is asked to identify with the aid of a voltmeter which one of a pair of channels contains the target; the channels are represented by the adder outputs. 8 illustrations, 6 tables, bibliography of 7 titles. Yu. M. [Translation of abstract]

SUB CODE: 09, 06, 12, ~~00~~

Card 1/1

UDC: 62-506.2:15

RUDNEV, S.V., glavnyy energetik; KUROCHKINA, V.A., inzhener.

Centralized separator on a ring spinning frame. Tekst. prom.16
no.10:31-32 O '56. (MIRA 10:1)

1. Ramenskaya khlopchatobunazhnaya fabrika "Krasnoye znamya."
(Spinning machinery)

RUDNEV, S.V.; KUROCHKINA, V.A., inzh.

Pneumatic removal of waste in sorting and picking sections.

Tekst. prom. 18 no. 7:48-49 J1 '58.

(MIRA 11:7)

1. Glavnyy energetik pryadil'no-tkatskogo kombinata "Krasnoye
znauya."

(Textile factories--Heating and ventilation)

Chemical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
Soils and Fertilizers

The decomposition of crop residues from perennial grasses and the influence of nitrogen fertilizers on the yield of spring wheat in relation to the time of plowing under the sod. I. V. Gulyakin, P. M. Smirnov, K. M. Khallov, V. I. Kurochenok, and V. P. Kurochkina. *Izvest. Timiryazev. Sel'skokhoz. Inst.* No. 2(3), 41-59 (1953). —It is shown that plowing under a sod crop in the early fall supplies more available N than plowing it under in late fall. In the latter case the N becomes assoed. with complex unhydrolyzable forms. Data are presented showing the increase in yield of spring wheat.
I. S. Joffe

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927730005-8

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927730005-8"

USSR / Plant Physiology. Mineral Nutrition.

I-2

Abs Jour : Ref Zhur - Biol., No 22, 1958, No 99925

Author : Borezovskiy, M. Ya.; and Kurochkin, V. E.

Inst : Timiryazov Agricultural Academy

Title : Study of the Effect of 2,4-D on the Entry and Distribution of F^{32} in Plants.

Orig Pub : Dokl. AN SSSR, 113, No 1, 210-213, 1957

Abstract : In the Timiryazov Agricultural Academy, sunflower plants in phase 3 of leaves were sprinkled with a solution of 2,4-D sodium salt. In another series of experiments the preparation was introduced into the soil. After 3 days, $NaH_2F^{32}O_4$ was introduced into the soil or placed on the upper surface of 3rd-tier leaves in the form of droplets. After 3 and 8 days the content of common F and F^{32} was determined in the plants. 2,4-D delayed the entry of F through roots and

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USSR / Plant Physiology. Mineral Nutrition

Abs Jour : Ref Zhur - Biol., No 22, 1958, No 99925

leaves. This retarding of the admission of F was expressed more strongly than the suppression of the formation of the organic substance, which resulted in the decrease of F content per dry-mass unit, especially in the younger parts of the plant. The plants precessed with 2,4-D through the introduction of the latter into soil, retained in their roots up to 24% of the F^{32} introduced into the soil; the plants subjected to sprinkling with 2,4-D retained only 9.1% of the F introduced into the soil. The derangement of the entry of F into plants owing to the action of 2,4-D is of a temporary nature. - B. A. Rudenko.

Card 2/2

USSR/Plant Physiology. Mineral Nutrition

I-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 29398

Author : Berezovskii M.Ia., Kurochkina V.F.

Inst : Not Given

Title : The Influence of 2,4-Dichlorophenoxyacetic Acid [D] on the Transformation of Phosphorus Compounds in the Plant.

Orig Pub : Dokl. AN SSSR, 1957; 113, No 2, 458-461

Abstract : In a vegetation experiment the spraying of an over-ground mass of sunflower with a low concentration of 2,4-D lowered the P intake into the plant and decreased its content. The content of inorganic P somewhat increased, but P in organic compounds, especially in acid solvent fractions, sharply decreased. 2,4-D introduction in soil in the root area not only decreased the absorption of phosphates, but their attachment to the roots and their transformation into less mobile combinations were

Card : 1/2

USSR/Plant Physiology. Mineral Nutrition

2-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 29398

observed. At a simultaneous increase of the relative content of nucleoproteids the content of inorganic P decreased and the weight of acid solvent fractions was considerably lower. The negative effect of 2,4-D on the intake and accumulation of P in plants was reversible. A conclusion was reached that 2,4-D acted more on the content of intermediate products of phosphorus metabolism.

Card : 2/2

LYUBINA, A. S. (Deputy of the Supreme Soviet of the USSR, Chief Zootechnician of the state farm "Pes'yanovskii") and KUROCHKINA, E. A., (Head of the Interrain Veterinary Bacteriological Laboratory, Ishimsk raion, Tyumen' Oblast')

"Reserves in the increase of productivity of animals at the state farm

"Pes'yanovskii"

Veterinariya, vol. 39, no. 6, June 1962 pp. 26

LYUBINA, A.S., deputat Verkhovnogo Soveta SSSR; KUROCHKINA, Ye.A.

Possibilities of increasing the productivity of farm animals
on the "Pes'yanovskii" State Farm. Veterinariia 39 no.6226-28
Je '62 (MIRA 18:1)

1. Glavnyy zootekhnik sovkhoza "Pes'yanovskiy" (for Lyubina).
2. Zaveduyushchaya mezhtayonnoy veterinarno-bakteriologicheskoy laboratoriyey, Ishimskiy rayon, Tyumenskoy oblasti (for Kurochkina).

~~SECRET~~
KUROCHKINA, Ye.K., insh.; LKHTTSIND, A.M., insh.

New machine tools used for mechanizing reinforcement work.
Stroi. i dor. mashinostr. 3 no.2:11-12 F '58. (MIRA 11:2)
(Machine tools)
(Reinforced concrete construction)

KUROCHKINA, Ye.P.; SAMOYLOV, V.P.

Layerless chromizing in a diluted bath. Izv.vys.ucheb.zav.;
tekh.tekst.prom. no.6:93-94 '58. (MIRA 12:4)

1. Kostromskoy tekstil'nyy institut.
(Textile machinery) (Chromium plating)

KUROCHKIN, Yu.V.; KUROCHKINA, Z.A.

Helminths of bats in the Astrakhan Preserve. Trudy Astr. zap.
no.6:127-134 '62. (MIRA 16:7)

(Astrakhan Preserve—Worms, Intestinal and parasitic)
(Astrakhan Preserve—Parasites—Bats)

KUROCHKINA, Z.A.

Supplement to the bibliography on parasitology of the Volga Delta.
Trudy Astr. zap. no.9:227-237 '64.

(MIRA 18:10)

KUROCHKINA, Z.V.; SEMENOVA, A.I.; DOBROVOL'SKAYA, Ye.A.; USTINOV, Ye.Ye.

Food poisoning caused by a Salmonella typhimurium (Breslau) group.
Zhur. mikrobiol. epid. i immun. 29 no.11:71-73 N '58. (MIRA 12:1)
(SALMONELLA INFECTIONS, in inf. & child,
typhimurium food pois. (Rus))

SHELYAPINA, T.S.; TROPIMOVA, A.I.; KUROCHKINA, Z.V.

First interprovince conference on scientific and practical work
in the control of diphylobothriasis. Med.paras.i paraz.bol. 26
no.6:752-754 N-D '59. (MIRA 13:4)
(WORMS, INTESTINAL AND PARASITIC)

VELIKOVSKAYA, Ye.M.; VELIKOVSKIY, D.S.; PEGANOV, A.A.; DOBRYAKOVA, L.I.;
KUROCHKINA, Z.V.; LISOVSKIY, I.I.

Synthetic drying oils. Patent U.S.S.R. 77,050, Dec.31, 1949.
(CA 47 no.19:10244 '53)

KURCCHKINA, Z. V.

30266

Silikatnyye kraski dlya kamyennykh povyerkhnostyey. Soobshch.
Laboratorii otdyolochnykh rabot (Akad. arkhtyektury SSSR), vyp. 1,
1949, s. 7-9.

Lur'ye, A. I. Raschet elektrovzryvnykh syetyey pri ispol'zovanii
Gal'vanichyeskikh elyemyentov.--Sm. 30297

SO: LETOPIS' NO. 34

KUROCHKINA, Z. V.

30265

Antisyephticheskiye kraski dlya dyeryeva. Soobshch. Laboratorii ordyelochnykh
Rabot (Akad. arkhityektury SSSR), vyp. 1, 1949, s. 33-35.

SO: LETOPIS' NO. 34

KUROCHKINA, Z., inzh.

Resilient monolithic floors to be used in apartment houses and
public buildings. Gor.i sel'stroi. no.10:25-26 O '57. (MIRA 10:12)
(Floors)

KARASEV, K.I., kand.khimicheskikh nauk; KUROCHKINA, Z.V., inzh.

Treating silicate paints for water resistance with organosilicon
compounds. Stroi.mat. 8 no.3:32-33 Mr '62. (MIRA 15:8)
(Paint) (Silicon organic compounds)

KARASEV, K.I., and. Khim. nauk; KHROSHCHIN, N.V., Inzh.

Determining the waterproofness and steamproofness of industrial
lacquered and painted surfaces. Sbor. inform. sob. VNIINEN no.15:
42-43 '62.

Memoranda for painters; finishing inner surfaces with silicate
paint. Ibid.:66-69

(MIPA 18:3)

KAPRALOV, B.P., inzh.; KUROCHKO, R.S., inzh.

Electric arc hard facing of valves working in corrosive media.
Svar. proizv. no.3:38-40 Mr '63. (MIRA 16:3)
(Hard facing) (Corrosion and anticorrosives)

KUROCZKIN, J.

35

POLAND

KULEZA, Aleksandra; Department of Epidemiology (Zaklad Epidemiologii), PZH (Panstwowy Zaklad Higieny -- State Institute of Hygiene), Director: Prof Dr J. KOSTRZYNSKI, Head of the Institute: Prof Dr E. PRZENIYCKI; with the collaboration of J. GOLEA, T. JOPKIEWICZ, M. KACPRZAK, W. KOCIELSKA, M. KOPEC, K. LIPINSKA, R. LUTYNSKI, J. MAKARENICZ, H. MALYSZKO, K. MEYMAN, A. CLES, S. PESKA, K. POPIELWICZ, T. ROKIEWICZ, J. ROZWADOWNA, W. SOCZEWICA, S. SZCZESNIAK, D. ZOLNIE-RZONA all of the Wojewodztwo Health and Epidemiological Stations (Wojewodzkie Stacje Sanitarne-Epidemiologiczne); H. BOBROWSKI, A. GECOW, J. GELBER, M. GRUSZCZYNSKA, H. JASTRZEB-SKA, E. JUZWA, J. KUROCZKIN, Z. RESZKE, R. STANCZYK, J. SIG-NATOWICZOWA, Z. SZCZERSKA, K. SZCZYGIELSKI, S. SZYNDLAR, K. SWICOMA, J. WAJSZCZUK, R. WARZECHA all of the Departments of Poliomyelitis Patients (Oddzialy dla Chorych na Polio-myelitis) of the Wojewodztwo Health and Epidemiological Stations; J. ADAMSKI (Poznan), H. DOBROWOLSKA (Warsaw), J. BOCHENSKA (Lodz), M. KOENIG (Krakow); H. DOBROMOLSKA of the Department of Virology (Zaklad Wirusologii) of PZH,

1/2

POLAND

Director: Prof Dr F. PRZESMYCKI, technical aid: A. BACINSKA

"Epidemic Situation of Poliomyelitis in Poland in 1961"

Warsaw, Przegląd Epidemiologiczny, Vol XVI, No 4, 1962,
pp369-375.

Abstract: /Author: English summary modified/ The profound influence on the epidemiology, etiology and clinical picture of poliomyelitis of the introduction of mass immunization with attenuated polio vaccines in 1959 is discussed. Observations on the influence and effect of immunizations with such vaccines on the epidemic situation of poliomyelitis in Poland are reported. 4 tables, 2 diagrams; 5 Polish references.

2/2

KURCZAK, J.

30

POLAND

EULESZA, Aleksandra of the Department of Epidemiology (Zakład Epidemiologiczny) of the PZH (Państwowy Zakład Higieny -- State Institute of Hygiene), Director: Prof Dr F. PRZESMYCKI, Head of the Department: G. ROSTRZEWSKI; J. GOLEB, T. JOYKIEWICZ, M. KASPRZAK, W. KOCIELSKA, K. LIPINSKA, R. LUTYNSKI, J. MAKAREWICZ, S. PACHA, T. RODKIEWICZ, W. SOGZEWICA, S. SZCZESNIAK, D. ZOLNIERKOWA all of the WSSB (Wojewódzkie Stacje Sanitarno-Epidemiologiczne -- Województwo Health and Epidemiology Stations); H. BOBROWSKI, A. GECOW, J. GELBER, E. JUWA, J. KUROZYKIN, J. SIONATOWICZOWA, Z. SZCZEPERKA, K. SZCZYGIELSKI, K. SWICOWA, R. WARSZCHA of the Departments of Poliomyelitis Patients (Oddziały dla Chorych na Poliomyelitę) of the WSSB; H. DOBKOWOLENA of the Department of Virology (Zakład Virusologii) of PZH. Director: Prof Dr F. PRZESMYCKI; J. ADAMSKI (Poznan), H. DOBKOWOLENA (Warsaw), J. BOCHENSKA (Lodz), M. KOZINSKI (Warsaw), H. MAKOWER (Wroclaw), F.Z. TAYTSCH (Warsaw) of the PZH; technical aid of A. BAGINSKA of the PZH.

"Safety of Immunization with the Attenuated Polio Virus"
1/2

POLAND

Strains Type 1 Chat and Type 3 W Fox''

WARSAW, Przebieg Epidemiologiczny, Vol XVI, No 4, 62, pp 377-383.

Abstract: [Author's English summary modified] An epidemical, clinical and virological analysis of poliomyelitis in Poland was made within 6 weeks after completion of oral immunization with polio virus type 1 Chat and type 3 W Fox. Investigations made in 1959 and 1960 show the complete safety of Koprowski's attenuated oral vaccine type 1 Chat. The strain 3 W Fox is indicated as a pathogenic one and its uncertain safety found by investigations in 1960 has been confirmed. 8 tables; 2 diagrams; 9 references, 2 Polish the rest Western.

12/2

KURCDA, T.

Remarks on some covering surfaces. In English. p. 232.

REVUE DE MATHÉMATIQUES PURES ET APPLIQUÉES. JOURNAL OF PURE AND APPLIED
MATHEMATICS. (Academia Republicii Populare Romine) Bucaresti. Romania.
Vol. 2, 1957.

Monthly List of East European Accessions (EEAI) LC. Vol. 9, no. 1, January 1960.

Uncl.

SOV/136-59-7-9/20

AUTHORS: Gurkin, S.I., and Kurokhtin, A.N.

TITLE: Experience in the Intensification of the Process of Electrolysis of Aluminum at the Stalino Aluminum Works

PERIODICAL: Tsvetnyye metally, 1959, Nr 7, pp 46-52 (USSR)

ABSTRACT: The authors discuss improvements in aluminum-electrolysis practice in the new sections of the Stalino works. Table 1 compares operating parameters for 1953 and 1958, showing that productivity increased by 5.5 - 13%. The measures taken at the works are those adopted throughout the Soviet aluminum industry; the distinctive feature at Stalino is the reduction of the bath voltage (by 0.187 - 0.266 volts). The changes in electrical and thermal conditions achieved, mainly through eight constructional modifications, are shown in Table 2. Cathode- and anode-section loading at the works is probably the highest in the USSR and is one of the bottlenecks for further intensification. A graphical representation of operating factors for 1952-1958 is given. Some improvement resulted from

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Experience in the Intensification of the Process of Electrolysis
of Aluminum at the Stalino Aluminum Works

SOV/136-59-7-9/20

the use of longer anode pins, which reduced overheating of the anode centres. Increase current density led to reduced voltage drop in bath bottoms which the authors explain in terms of higher metal-level and careful bottom cleaning. Among factors contributing to the reduction in heating voltage were mechanization of anode lifting and reduction in inter-electrode distance. The last factor, contrary to results of laboratory experiments did not reduce but increased current efficiency. At present this distance is as low as 3.6 - 4.0 cm (generally 3.9 - 4.2), but the authors consider that optimum electrolysis conditions correspond to 3.0 cm. The authors note that, in spite of increased current density it has been possible to reduce heat losses. Between 1953 and 1958 metal production per KWH has increased by over 7%, the present power consumption on one series being lower than anywhere in the USSR (and, perhaps, the world) and the authors maintain that intensification of electrolysis without increase of heat losses is the best practice.

Card 2/3

SOV/136-59-7-9/20
Experience in the Intensification of the Process of Electrolysis
of Aluminum at the Stalino Aluminum Works

From the equations of G.A. Abramov and A.A. Kostyukov, conditions at Stalino are still not at the optimum level. The authors briefly compare conditions at Stalino with those at other works (DAZ and VAZ) and the results obtained by various shift crews at Stalino. There is 1 figure and 3 tables.

ASSOCIATION: Stalinskiy alyuminiyevyy zavod (Stalino Aluminium Works)

Card 3/3

OSTASHEVSKAYA, N.S.; OLENTSEVICH, N.A.; BASHKATOVA, A.S.; LANDA, M.B.;
KUNSHCHIKOVA, A.A.; LISIN, D.M.; KUROV, V.V.; YEMEL'YANOV, N.A.;
FAKTOROVICH, B.A.; KUROKHTIN, A.N.

Industrial testing of Listvyanka anthracite for lining the
bottom of aluminum electrolytic cells. TSvet.met. 38
no.10:62-66 0 '65. (MIRA 18:12)

KURCHENINA, T. F.

"The Relation between Carnosine and the Protein of Muscles," Biokhim., 14,
No. 6, 1949. Chair Animal Biochemistry, Moscow Order of Lenin State Univ.
in M. V. Lomonosov.

(1/1)

Phosphocreatine and Adenosine triphosphate (ATP) changes in brain cortex after electroconvulsions. P. I. Mironov and T. P. Kuznetsova (Inst. Biol. and Med. Chem. Acad. Med. Sci. U.S.S.R., Moscow) *Soviet Biophys. J.* 21, 1516-1519 (1975). Abstracts of the 1st International Conference on Phosphocreatine, 1975, pp. 111-112. The authors report on the changes in the content of phosphocreatine (P) and of ATP in the cortex of mice after convulsions and before and after the convulsions. The excitability of the cortex was measured by the method of the same authors. The results show that the contents of P and ATP in the cortex were significantly reduced by which time excitability of the cortex was considerably restored. Treatment of the cortex with 10% urethane and 10% magnesium sulfate solution in 0.9% saline solution. The cortex, 20 min after cessation of the electroconvulsions, excitability of the cortical motor zone was determined by constant current from Ag electrodes of a microstimulator. The results were obtained by construction of the hand-pair motor neurons. Having determined excitability, a portion of the cortex was removed from 1 control lobe by a surgical operation. The sample frozen in liquid air and made into a powder at the moment of sampling to minimize the loss of P. After the extraction, phosphocreatine and ATP were determined by the method of the same authors. The duration of the convulsions was 10-15 min. Intervals between convulsions were 10-15 min. It is possible to obtain more than 5-6 seizures in a row, the last attacks being short and weak. Convulsions having passed, a portion of cortex from the 2nd lobe was stimulated and frozen, and the excitability determined every 5-10 min. After termination of convulsions, 1 more portion of cortex was excised and frozen. Each of the 3 portions of cortex were ground to a powder while frozen and assayed with CaCl_2 and HClO_4 was added (1:10). The following phosphorus were determined in the filtrate: (1) inorganic P after precipitation with CaCl_2 ; (2) some inorganic P + phosphocreatine P; (3) ATP. ATP was determined by hydrolysis in 1N HCl at 100°C. P was determined colorimetrically according to Fiske and Subbarow in a step photometer.

Clayton H. H. H. H.

KUROKHTINA, T.P., [translator]; PASYNSKIY, A.G., professor, redaktor;
GRISHCHENKO, Ye.D., redaktor; GERASIMOVA, Ye.S., tekhnicheskii
redaktor

[Amino acids and proteins; a collection of articles. Translated from
the English] Aminokisloty i belki; sbornik statei. Perevod s
angliskogo T.P.Kurokhtinoi. Pod red. i s predisl. A.G.Pasynskogo.
Moskva, Izd-vo inostrannoi lit-ry, 1952. 394 p. (MLRA 10:2)
(Amino acids) (Proteins)

OREKHOVICH, V.N.; KUROKHTINA, T.P.; BUYANOVA, N.D.

On the "inclusion" of tagged amino acids into blood plasma albumin. Biokhimiia
18 no.6:706-708 N-D '53. (MLR 6:12)

1. Institut biologicheskoy i meditsinskoy khimii AN SSSR, Moscow.
(Amino acids) (Blood--Plasma) (Tracers (Biology))

KUROKHTINA, T. P.

2
A study of the renewal rate of plasma proteins in the organism with the aid of methionine S³⁵. T. P. Kurokhtina (Inst. Biol. and Med. Chem., Acad. Med. Sci. U.S.S.R., Moscow). *Biokhimiya* 19, 16-18(1954).—The rate of methionine S inclusion into blood plasma reflects the renewal rate of protein mols., which varies with each fraction of the blood plasma protein. This is in disagreement with some of the results previously reported.
B. S. Leving

Translation M-122, 21 Jan 55

KUROKHTINA, Z.F., meditsinskaya sestra.

Postoperative period in cases of intestinal obstruction. Med. sestra no.7:
9-12 J1 '53. (MLRA 6:7)

1. Moskovskaya ordena Lenina gorodskaya klinicheskaya bol'nitsa imeni S.B.
Botkina. (Intestines--Obstructions) (Operations, Surgical)

KUROKHTINA, Z.I.

Dying "Nitron" fibers for carpet goods. Tekst.prom. 19
no.10:72 0 '59. (MIRA 13:1)

1. Zav.laboratoriyey Lyuberetskogo kovrovogo kombinata.
(Dyes and dyeing--Nylon) (Rug and carpet industry)

Kurolap, N.S.

USSR/Inorganic Chemistry. Complex Compounds. C

Abs Jour : Ref Zhur - Khimiya, No. 8, 1957, 26467.

Author : Tikhonov, A.S.; Kurolap, N.S.

Inst : Voronezh University.

Title : Study of Reactions of Complex Formation of Two-Valent Tin Ions with Citric Acid Ions.

Orig Pub : Tr. Voronezhsk. un-ta, 1956, 42, No. 2, 61 - 62.

Abstract : Citric acids ions (I) produce well soluble complexes with Sn^{2+} . According to the data of the research by the potentiometric method, the complex $\text{SnC}_6\text{H}_5\text{O}_7$ is produced when pH is less than 7, and $\text{Sn}(\text{OH})\text{C}_6\text{H}_5\text{O}_7^-$ of the instability constant of about 10^{-20} is produced when pH is equal, or greater than, 7. The 1st complex is nearly equally stable in

Card 1/2

USSR/Inorganic Chemistry. Complex Compounds. C

Abs Jour : Ref Zhur - Khimiya, No. 8, 1957, 26467.

the opinion of the authors. The complexes decompose in the alkaline region and $\text{Sn}(\text{OH})_2$ falls out at pH equal to 9 - 11, the solubility product of $\text{Sn}(\text{OH})_2$ being 2.27×10^{-26} according to the data of the potentiometric titration. According to the polarographic study, the introduction of citrate ions into strongly alkaline solutions does not shift the potential of the half-wave of stannite, which indicates the absence of complex formation of Sn^{2+} and I in this region of pH.

Card 2/2

ZHUKOV, A.V., doktor tekhn.nauk; ABRAMOVICH, M.D., kand.tekhn.nauk;
SAKHAROVA, N.A., inzh.; KURO LAPNIK, S.D., inzh.; DROBOT, N.K.,
inzh.

Carpet-pattern tiles made by dry-pressing for the finishing of
wall panels. Stek.1 ker. 22 no.10:28-30 0 '65.

(MIRA 18:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy inatitut stroitel'-
nykh materialov i izdeliy (NIISMI), Kiyev.

BELYKH, L.G.; KUROLENI, O.A.; SKRIPKO, A.L.

Measurement of the moisture of a coal charge by the method of nuclear magnetic resonance. Zav.lab. 29 no.2:168-172 '63. (MIRA 1615)

1. Moskovskiy energeticheskiy institut.
(Coal) (Moisture) (Nuclear magnetic resonance and relaxation)

KUROLIN, S.A.; VULIKH, A.I.

Vacuum synthesis of alkali metal metatitanates. Zhur. prikl.
khim. 37 no.12:2748 D '64. (MIRA 18:3)

KUROHEN, G.F.; MIKHAYLOV, A.A.

Economic efficiency of the introduction of billets in enterprises
of the West Ural Economic Council. Biul. tekhn.-ekon. inform. Gos.
nauch.-issl. inst. nauch. i tekhn. inform. 18 no.3:8-9 Mr '65.
(MIRA 18:5)

SOV/137-59-1-1997
Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 263 (USSR)

AUTHOR: Kuronova, N. V.

TITLE: Electrolytic Polishing of "583"-purity Gold
(Elektroliticheskaya polirovka zolota 583 proby)

PERIODICAL: Sb. tr. Vses. n.-i. in-t Goznaka, 1957, Nr 1, pp 341-357

ABSTRACT: It was established that "583"-purity gold alloy can be electrolytically polished in solutions containing $K_4Fe(CN)_6$ and KCN. The optimum composition of the electrolyte (in g/liter) is: KCN 10, $K_4Fe(CN)_6$ 20, $NaHPO_4$ 1, KOH 0.2, temperature 50 - 60°C, bath voltage 2.8 - 3 v, distance between the electrodes 10 cm, duration of the process 5 - 10 min, anodic potential 0.75 v, with mechanical stirring. The fundamental laws governing the anodic treatment of this alloy are determined. The uniform removal of the metal and, in this connection, the feasibility of electrolytic polishing of duplex-metal articles are established. It is established that the Au dissolved in the electrolytic polishing process is completely deposited on the cathode.

S. B.

Card 1/1

KURONYA, Istvan

Household as seen by a chemist. Elet tud 16 no.21:Suppl:
Tarkatudomány 2 no.11:84-85 21 My '61.

KURONYA, Istvan

Once again on baking powder. Elet tud 16 no.37:Supp.:Tarkatudomány
2 no.19:148-149 10 S '61.

KUROPATENKO, F.K., dotsent, kand. tekhn. nauk; SUKHOV, V.I., prof., doktor tekhn. nauk, red.; PAVLOVSKAYA, Ye.M., tekhn. red.

[Soil mapping of zones covered by machine-tractor stations and administrative regions] Zemleustroitel'noe kartografirovaniye zon deiatel'nosti MTS i administrativnykh raionov. Pod red. V.I. Sukhova. Gorki, M-vo sel'.khoz. SSSR, 1957. 161 p. (MIRA 14:8)
(Agriculture—Maps) (Cartography)

SOV-3-58-8-16/26

AUTHORS: Yenyukov, A.V., Candidate of Agricultural Sciences, and
F.K. Kuropatenko, Candidate of Technical Sciences

TITLE: Projects Prepared Under Industrial Conditions (Proyekty
sozdayutsya v proizvodstvennykh usloviyakh)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 8, pp 66 - 70 (USSR)

ABSTRACT: Students of the engineering faculties of agricultural
vuzes have to prepare 5 to 12 course designs and works.
Often, however, the students are misdirected methodical-
ly in executing these works. At various agricultural vuzes,
course projects of one type are worked out in similar fa-
culties by different methods. This is apparently due to
the different ways in which the preparation of projects
is organized and the coordination existing between the re-
lated chairs or to a lack of such coordination. The au-
thor considers it methodically wrong if the student pre-
pares his course project on related subjects of various
enterprises. In recent years, with regard to these and
other deficiencies, some vuzes have applied the complex
method of preparing course projects, i.e. a project is
worked out by the students which has been prepared at
only one enterprise. As an example, the author mentions

Card 1/2

Projects Prepared Under Industrial Conditions

SOV-3-58-8-16/26

the Moscow Institute of Melioration Engineers and the Belorussian Agricultural Academy. Though the methods applied require further improvement, they can be recommended to all engineering faculties of agricultural vuzes.

ASSOCIATION:

Moskovskiy institut inzhenerov zemleustroystva (Moscow Institute of Melioration Engineers); Belorusskaya sel'skokh-ozhaystvennaya akademiya (Belorussian Agricultural Academy)

Card 2/2

YEGOROVA, Tat'yana Mikhaylovna; KANIVETS, M.A., retsenzent; RYZHYKH, I.I., starshego prepod., retsenzent; STEPANOV, S.P., assistent, retsenzent; GENDEL'MAN, M.A., prof., retsenzent; GENDEL'MAN, A.M., kand. ekon. nauk, retsenzent; KUROPATENKO, F.K., prof., retsenzent; KON'TOROVICH, I.A., starshiy prep., retsenzent; YEROFEYENKO, A.G., assistent, retsenzent; DAVYDOV, G.P., red.; SHAMAROVA, T.A., red. izd-va; SUNGUROV, V.S., tekhn. red.

[Topographical drawing] Topograficheskoe cherenie. Moskva, Geodezizdat, 1961. 158 p. (MIRA 15:8)

1. Zaveduyushchiy kafedroy geodezii Omskogo sel'skokhozyaystvennogo instituta (for Kanivets). 2. Zaveduyushchky kafedroy zemleustroystva Tselinogradskogo sel'skokhozyaystvennogo instituta (for Gendel'man, M.A.). 3. Zaveduyushchiy kafedroy zemleproyektirovaniya i planirovki sel'skikh zaselennykh mest Belorusskoy sel'skokhozyaystvennoy akademii (for Kuropatenko).
(Topographical drawing)

MASLOV, Aleksei Vasil'yevich; GOLIKHEV, Georgiy Il'ich;
KUROPATENKO, F.K., prof., retsenent; TITOVNIKOV,
Ya.M., retsenent

[Geodesy] Geodeziia. Moskva, Nedra. Pt.3. Izd.2.,
perer. i ispr. 1964. 185 p. (MIRA 18:1)

ALEKSEYCHIK, N.I.; MARTINOVICH, G.I.; MALYANOVA, G.I.; KUROPATENKO, G.F.

Effect of the Minsk gassed mineral water from the borehole No.2
on the secretory and evacuating function of the stomach and on
diuresis in dogs. Vop. fiziol. chel. i zhiv. no.1:163-167 '60.
(MIRA 14:10)

1. Belorusskiy nauchno-issledovatel'skiy institut nevrologii,
neyrokhirurgii, fizioterapii i kafedra fiziologii cheloveka i
zhivotnykh Belorusskogo gosudarstvennogo universiteta imeni Lenina.
(MINSK--MINERAL WATERS) (STOMACH)
(DIURETICS AND DIURESIS)

82516

S/020/60/133/04/06/031
B019/B060

AUTHOR: Kurcpatenko, V. F.

TITLE: A Method of Calculating Shock Waves

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 4, pp.771-772 ✓

TEXT: The author offers a method of calculating discontinuous solutions of gas-dynamic equations (1). By this method, the discontinuities are not sorted out singly, and it therefore behaves like the so-called "open" calculation, where singular points are not sorted out either. Equations (2) are, however, used for calculating the Hugoniot conditions. In the integration of (1) the intervals of the state variables are divided into two classes, and the approximate solution in the intervals of the first class is called elementary rarefaction wave, and elementary shock wave in the intervals of the second class. The calculation of the state variables in the individual intervals is discussed and it is stated that a shock wave at random can be replaced by a finite number of elementary shock waves when applying the method given here. A number of calculations were made by this method and a satisfactory agreement was found between exact and
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approximate calculations. The author thanks N. N. Yanenko for a number of valuable suggestions. There are 3 references: 1 Soviet and 2 US. ✓

PRESENTED: December 16, 1959, by S. L. Sobolev, Academician

SUBMITTED: November 18, 1959

Card 2/2

ACC NR: AT7004277

SOURCE CODE: UR/2517/66/074/000/0107/0137

AUTHOR: Kuropatenko, V. F.

ORG: none

TITLE: Finite difference method for hydrodynamic equations

SOURCE: AN SSSR. Matematicheskiy institut. Trudy, v. 74, 1966. Raznostnyye metody resheniya zadach matematicheskoy fiziki (Difference methods for solving problems in mathematical physics), pt. 1, 107-137

TOPIC TAGS: finite difference, hydrodynamics, thermodynamics, acoustic wave, shock wave, rarefaction wave

ABSTRACT: Finite difference methods are applied to one-dimensional unsteady hydrodynamic equations. These equations are given by

$$U_t + r^0 P_x = 0, \quad V_t - (r^0 U)_x = 0, \quad \mathcal{E}_t + (r^0 P U)_x = 0.$$

The following coordinates are used for two types of grids

$$x_i = x_0 + \sum_1^i h_{1i}$$

$$t_n = t_0 + \sum_1^n \tau_k$$

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In type one, all unknown functions are defined on points $x_{i+1/2}$; in type two grids only thermodynamic quantities are defined on the points $x_{i+1/2}$. The velocity U is determined on points x_i . Both rarefaction (R-waves) and shock (S-waves) waves are considered in the analysis. For R-waves, which lead to smooth solutions, the following difference equation is obtained for the velocity

$$\frac{\Delta U(x_i)}{\tau} + \frac{\Delta P(P^*)}{h} = 0.$$

For discontinuous solutions, auxiliary quantities are introduced, defined by the asterisks in the following two difference equations

$$(U_{i_1}^* - U_{i_1}^0)h + (P_1^* - P_0^*)\tau = 0,$$

$$(V_{i_1}^* - V_{i_1}^0)h - (U_1^* - U_0^*)\tau = 0.$$

These are determined from the expressions

$$P_1^* - P_0^* = \bar{P}_{i_1} - \bar{P}_{i_1} + O(\tau^2, h^2),$$

$$U_1^* - U_0^* = \bar{U}_{i_1} - \bar{U}_{i_1} + O(\tau^2, h^2),$$

which in turn allow one to calculate $U_{1/2}^*$ and $V_{1/2}^*$. Using the R-wave analysis, a similar finite difference expression is derived for the energy. This is given by

$$E_{i_1}^* - E_{i_1}^0 + \frac{1}{2}(P_{i_1}^* + P_{i_1}^0 + 2q_{i_1})(V_{i_1}^* - V_{i_1}^0) = 0.$$

Three kinds of finite difference schemes are investigated, using either of the above

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two types of grids. Depending on the nature of auxiliary functions, the third difference scheme is in turn divided into three sub-schemes. All three finite difference methods are then discussed for the acoustic approximation given by the equations

$$U_t + P_x = 0,$$

$$P_t + c^2 U_x = 0.$$

It is shown that the stability criteria for all three methods are satisfied by the inequality $\mathcal{X}^2 \leq 1$ where $\mathcal{X} = \tau c/h$. It is further shown that (in all three methods) if the exact solution is monotonic the approximate solution is not. Using the last of the three finite difference schemes analyzed, a numerical example is considered on a digital computer and then compared with the exact solution. This is shown in Fig. 1.

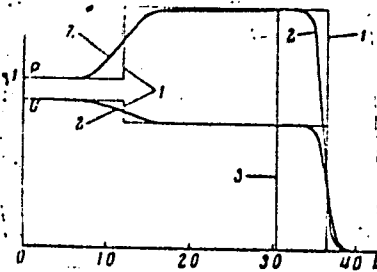


Fig. 1. 1 - exact solution; 2 - approximate solution; 3 - contact discontinuity

Orig. art. has: 151 equations, 4 figures, and 3 tables.

SUB CODE: 12, 20/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 003

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L 05677-67 EWP(m)/EWT(1)/EWT(m)/T WW/JW/JWD/WE

ACC NR: AR6023238

SOURCE CODE: UR/0044/66/000/003/B070/B070

AUTHOR: Golubeva, N. K.; Kuropatenko, V. F.

72
8

REF SOURCE: Dokl. 3-y Sibirsk. konferentsii po matem. i mekhan., 1964. Tomsk, Tomskiy un-t, 1964, 99

TITLE: On a difference method for the calculation of a one-dimensional detonation wave

SOURCE: Ref. zh. Matematika, Abs. 3B356

TOPIC TAGS: detonation wave, difference equation, mathematic model

TRANSLATION: A method is proposed for making continuous calculations of a detonation wave. This method is based on the representation of the state equation in the front zone of the wave in the form $p = gp^Y$, where the function g is calculated in a determined way and serves as a mathematical model for the exact state equation in the zone of phase transfer. The proposed method is a variant of the method of spreading the discontinuity. N. Kuznetsov.

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SUB CODE: 12/ SUBM DATE: none

UDC: 517.9:533.7

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Card 1/1

KUROPATENKO, V.F. (Chelyabinsk)

Method for constructing difference systems for the numeral
integration of the equations of gas dynamics. Izv. vys.ucheb.
zav.; mat. no.3:75-83 '62. (MIRA 15:9)
(Differential equations)
(Gas dynamics)

S/208/63/003/001/013/013
B112/B102

AUTHOR: Kuropatenko, V. F. (Chelyabinsk)

TITLE: Difference method for calculating shock waves

PERIODICAL: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki,
v. 3, no. 1, 1963, 201-204

TEXT: The gas-dynamical system

$$\left. \begin{aligned} u_t &= -P_x, \\ v_t &= u_x, \\ \mathcal{E}_t &= -(Pu)_x, \\ \mathcal{E} &= E + \frac{1}{2} u^2, \\ P &= f(V, E) \end{aligned} \right\} \quad (1)$$

$$\left. \begin{aligned} \bar{V} - V_0 &= -\frac{1}{W} (\bar{u} - u_0), \\ \bar{u} - u_0 &= \frac{1}{W} (\bar{P} - P_0), \\ \bar{E} - E_0 &= \frac{1}{s} (\bar{P} + P_0)(V_0 - \bar{V}). \end{aligned} \right\} \quad (2)$$

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is substituted by the difference system

$$u_{i+1/2}^{n+1} - u_{i+1/2}^n = -\frac{\tau}{h} (P_{i+1}^* - P_i^*),$$

$$v_{i+1/2}^{n+1} - v_{i+1/2}^n = \frac{\tau}{h} (U_{i+1}^* - U_i^*), \tag{3}$$

$$g_{i+1/2}^{n+1} - g_{i+1/2}^n = -\frac{\tau}{h} (P_{i+1}^* U_{i+1}^* - P_i^* U_i^*), \tag{4}$$

$$g_{i+1/2}^{n+1} = E_{i+1/2}^{n+1} + \frac{1}{h} (u_{i+1/2}^{n+1})^2, \tag{5}$$

$$P_{i+1/2}^{n+1} = f(v_{i+1/2}^{n+1}, E_{i+1/2}^{n+1}). \tag{6}$$

$$\tag{7}$$

The solutions are

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$$\begin{aligned}
 &P_i^* = P_{i-1/2}^n \\
 &U_i^* = u_{i+1/2}^n + \frac{P_{i-1/2}^n - P_{i+1/2}^n}{\sqrt{\frac{1}{2V_{i+1/2}^n} \cdot [(\gamma + 1)P_{i-1/2}^n - (\gamma - 1)P_{i+1/2}^n]}} \quad (12)
 \end{aligned}$$

Transition from difference quotients to differential quotients shows the applicability of the method. There are 2 figures.

SUBMITTED: May 7, 1962

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10.1200

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S/140/62/000/003/004/007
C111/C333

AUTHOR: Kuropatenko, V. I.

TITLE: A method for constructing difference schemes for the numerical integration of equations of gas dynamics

PERIODICAL: Vysshiye uchebnyye zavedeniya. Izvestiya. Matematika, no. 3, 1962, 75-83

TEXT: It is suggested that the numerical solution of the system

$$\frac{\partial v}{\partial t} - \frac{\partial u}{\partial x} = 0, \quad \frac{\partial u}{\partial t} + \frac{\partial p}{\partial x} = 0$$

(1)

$$\frac{\partial E}{\partial t} + p \frac{\partial v}{\partial t} = 0, \quad p = f(v, E)$$

where u--velocity, v--specific volume, E--internal energy and $P=f(v,E)$ is the equation of state, be based on the assumption that the solution consists of R- and S-waves. The approximate solution in the interval $[x_i, x_{i+1}]$ is called R-wave if

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$$\frac{u_i - u_{i+1}}{x_i - x_{i+1}} \geq 0 \quad (5)$$

holds there, and it is called S-wave if

$$\frac{u_i - u_{i+1}}{x_i - x_{i+1}} < 0 \quad (6)$$

holds. If there is a strong discontinuity (shock-wave) in the interval, then the approximate solution is an S-wave there. The R-waves are determined with the help of an arbitrary stable difference scheme for (1). To determine the S-waves the relations

$$\begin{aligned} v_+ - v_- &= -\frac{1}{w} (u_+ - u_-), \\ u_+ - u_- &= \frac{1}{w} (p_+ - p_-), \\ E_+ - E_- &= \frac{1}{2} (p_+ + p_-) (v_- - v_+) \end{aligned} \quad (2)$$

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 are used, where the values to the right and to the left of the
 discontinuity are denoted by + and -, respectively, and where w is the
 propagation velocity. All the quantities with "-" and one quantity with
 "+" are considered to be known. All other quantities with "+" can then
 be calculated with the help of the equation of state. They serve as
 auxiliary quantities when setting up the difference scheme for determi-
 ning the S-wave, where the scheme depends on which "+" quantity is chosen
 as the known one. As an example, the scheme

f

$$u_i^{n+1} - u_i^n = -\frac{\tau}{h} \left[(p_+)^n_{i+\frac{1}{2}} - (p_+)^n_{i-\frac{1}{2}} \right], \quad (11)$$

$$v_{i-\frac{1}{2}}^{n+1} - v_{i-\frac{1}{2}}^n = \frac{\tau}{h} (u_i^{n+1} - u_{i-1}^{n+1}), \quad (12)$$

$$E_{i-\frac{1}{2}}^{n+1} - E_{i-\frac{1}{2}}^n = \frac{1}{2} \left[(p_+)^n_{i-\frac{1}{2}} + (p_+)^{n+1}_{i-\frac{1}{2}} \right] \left(v_{i-\frac{1}{2}}^n - v_{i-\frac{1}{2}}^{n+1} \right) \quad (13)$$

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$$p_{i-\frac{1}{2}}^{n+1} = f\left(v_{i-\frac{1}{2}}^{n+1}, E_{i-\frac{1}{2}}^{n+1}\right) \quad (14)$$

is suggested. For the R-waves $(p_+)^{n+1}_{i-\frac{1}{2}} = p_{i-\frac{1}{2}}^{n+1}$ and for the S-waves

$(p_+)^{n+1}_{i-\frac{1}{2}}$ are determined from (2); here

$$v_- = v_{i-\frac{1}{2}}^n, \quad p_- = p_{i-\frac{1}{2}}^n \quad (15)$$

$$E_- = E_{i-\frac{1}{2}}^n, \quad u_+ - u_- = \frac{1}{2}(u_i^{n+1} - u_{i-1}^{n+1})$$

are chosen as the given quantities. The "viscous" auxiliary term corresponding to the suggested method is determined. The author mentions

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the differences between results of the suggested method and those of
the Neuman method (I. Neuman, R. Richtmayer, A method for the numerical
calculations of hydrodynamical shocks. J. Appl. Phys., 21, 232, 1950).
The author thanks N. N. Yanenko for his advice.

SUBMITTED: January 28, 1961

Card 5/5