KHARAKOZ, A.Ye.; CHALOVA, Ye.P.; BABENKO, V.G.; BLESHINSKIY, S.V.; MUSTAYEV, A.K.

Complex formation in the systems consisting of phosphoric acid - alkali - sesquioxides. Izv.AN Kir.SSR.Ser.est.i tekh.nauk 4 no.9:141-147 '62. (MIRA 16:4)
(Phosphoric acid) (Alkalies) (Iron oxides)
(Complex compounds)

BLESHINSKIY, S.V.; KHARAKOZ, A.Ye.; CHALOVA, Ye.P.; ALTYNNIKOVA, P.M.; OSIPOVA, T.P.

Phosphate method for stripping rare-earth minerals. Izv. AN Kir. SSR. Ser. est i tekh. nauk 5 no.4:17-21 '63. (MIRA 16:10)

BLESHINSKIY, S.V.; KHARAKOZ, A.Ye.; LUKIN, I.N.; BABENKO, V.G.; CHALOVA, Ye.P.; Prinimali uchastiye: AERAMOVA, V.F.; VINOGRADOV, V.P.; USUBAKUNOV, M.; GORBUNOV, V.D.; OSIPOVA, T.P.; NAGAYEVA, A.G.; MEDVEDEVA, V.A.; ALTYNNIKOVA, P.M.

Fluosilicic method for separating rare-earth elements. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 5 no.4:23-24 '63. (MIRA 16:10)

BLESHINSKIY, S.V.; KHARAKOZ, A.Ye.; ABRAMOVA, V.F.; VINOGRADOV, V.P.; BABENKO, V.T.; KACHKIMBAYEVA, S.A.; Prinimali uchastiye: USUBAKUNOV, M.; NAGAYEVA, A.G.; GORBUNOV, V.D.; MEDVEDEVA, V.A.; CHALOVA, Ye.P.; ALTYNNIKOVA, P.M.

Method for separating rare-earth elements based on the thermal dissociation of sulfates. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 5 no.4:25-26 '63. (MIRA 16:10)

KHARAKOZ, I.I.; SOLOV'YEV, S.P., red.; ANOKHINA, M.G., tekhn. red.

[Economic aspects of collective farming in the Chu Valley] Voprosy ekonomiki kolkhozov Chuiskoi doliny. Frunze, Akad. nauk Kirgizskoi SSR, 1958. 59 p. (MIRA 11:7)

(Chu Valley--Collective farms)

KHARAKOZ, M.F.

Vegetative propagation of Dioscorea caucasica. Rast.res. 1 no.3:402-405 '65. (MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i efiromaslichnykh kul'tur, Krasnodar.

USSR / Meadow Cultivation. L

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24752

Author : Geydman, T. S.; Kharakoz, M. F.
Inst : Moldavian Affiliate, AS USSR
Title : Towards the Problem of Using Meadow Vegetation in the Northwestern Part of the Kodras (Moldavian SSR)

Orig Pub : Izv. Moldavsk. fil. AN SSSR, 1957, No 1, 45-75

Abstract : By the method of itinerary geobotanical investigations and by means of station observations in 1954, the species composition, structure, developmental dynamics and economic value of the grasses of meadow vegetation in the upper reaches of small-river valleys, as well as of those in

Card 1/3

USSR / Meadow Cultivation. L

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24752

forest glades and borders, were established. The assembled data showed that the meadows in the northwestern part of the Kodras possess great economic value. The first early mowing or sowing on hay-producing meadow lands of the Kodras is inefficient, leading to a loss of almost half of the mowed mass obtainable in a single but modern harvest. Under mowing conditions in the phase of efflorescence (1st decade of July), it is possible in one or two years to introduce a two-harvesting regime with the second mowing in one month after the first one. It is recommended to begin afforestration of part of

Card 2/3

USSR / Meadow Cultivation. L

Abs Jour : Ref Zhur - Biologiya, No 6,

KHARALANOV, D.

"Forthcoming tasks of aerocluls. Aviats kosm. nyt. 6 no.10:2 '64.

1. Head, Joint Military Section at the Central Committee of the Voluntary Civil Defense Organization, Sofia.

KHARALANOV, Kh.

Ophthalmoneurological symptoms in carotid insufficiency syndromes. Suvr. med. 16 no.12:736-743 '65

1. Katedra po nervni bolesti (rukovoditel: prof. S. Bozhinov) Vissh meditsinski institut, Sofiia.

KHABALAKOV, Kh.

Etiology, pathogenesis and clinical aspects of carotid insufficiency. Suvr. med. (Sofiia) 15 no.10:3-14 '64.

BOZHINOV, S.; UZUNOV, P.; KHARALANOV, Kh.

Acute necrotic encephalitis (Coxsackie B virus infection?). Suvrem med., Sofia no.7-8:141-146 '60.
(COXSACKIE VIRUS infect)
(ENCEPHALITIS etiol)

IORDANOV, Boriślav Iv.; KHARALANOV, Kharalan Il.

On the problem of heredity in epilepsy. Nauch. tr. vissh. med. inst. Sofia 39 no.6:45-57 '60.

1. Predstavena ot dots. S Bozhinov, rukovoditel na Katedrata po nevrologiia.

(EPILEPSY genetics)

KHRISTOV, V., fizik; KHARALANOV, Kh., lekar

Atomic danger. Nauka i tekh mladezh no.8:4-5 Ag '57.

KHARALANOV, M.

Amateur Radio Exhibition at T'rnovo. "RADIO" Ministry of Communications, #11:12:Nov. 55

KHARALANOV, S.

AGRICULTURE

Periodical KOOPERATIVNO ZEMEDELIE. No. 9, Sept. 1958.

KHARALANOV, S. New sowing machines. p. 28.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

KHARALANOV, S.

How to automatize the stands for regulating the Diesel-motor fuel apparatus.

P. 21, (Mashinizirano Zemedelie) Vol. 8, no. 7, July 1957, Sofia, Bulgaria

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

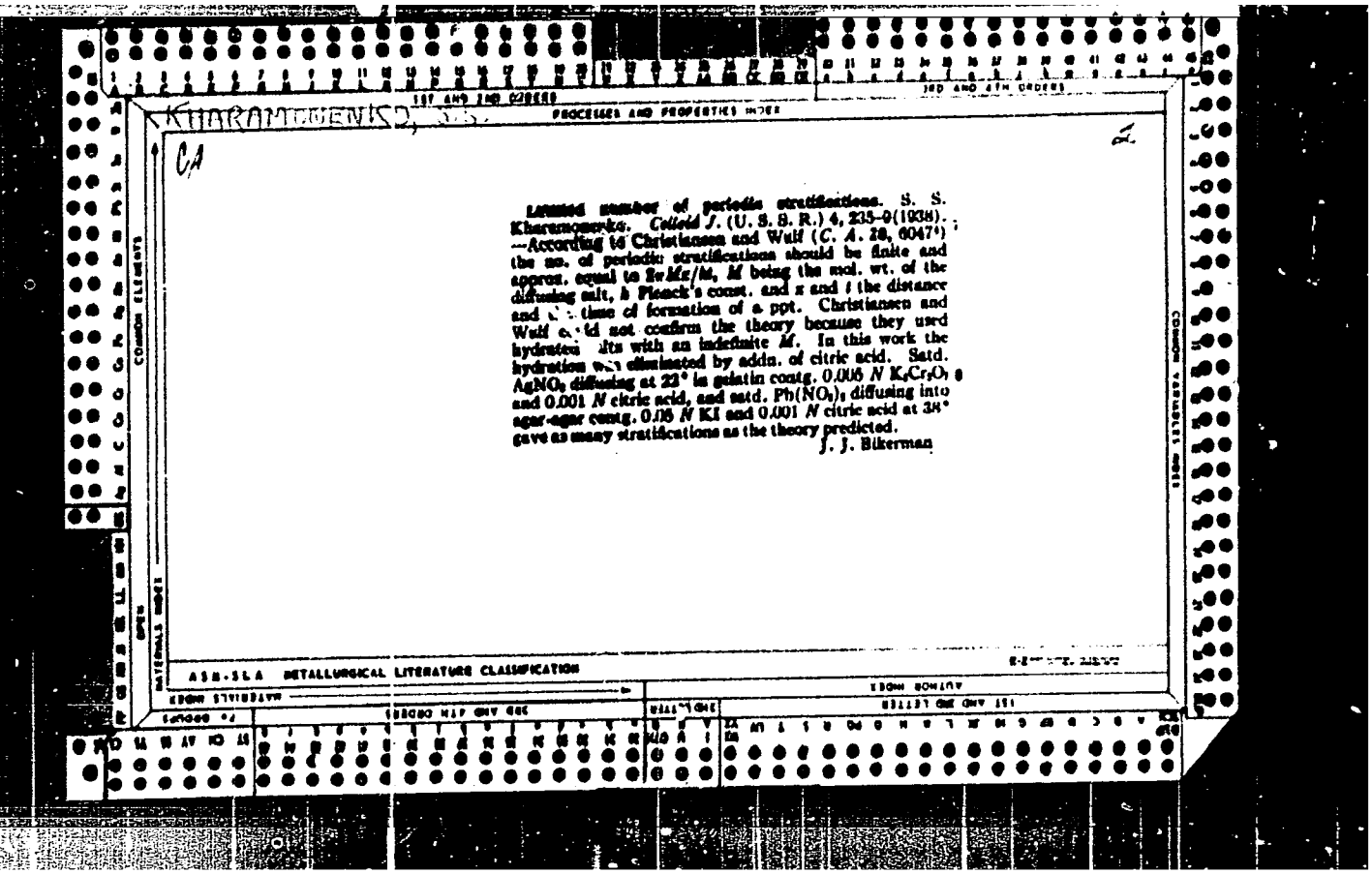
GAIDAROV, N.; MASLINKOV, Iv.; MONOV, Iv.; KHRISTOV, M.; KHARALANOV, St.; DIMITROV, I.

Mechanized harvesting of maize. Izv mekh selsko stop BAN 1:115-132 '61.

KHARALANOV, Vasil, ml. n. sutr.

What variety to sow. Biol i khim 4 no.5:59-61 '62.

1. Tsentralen nauchnoizsledovatelski institut po rastenievudstvo.

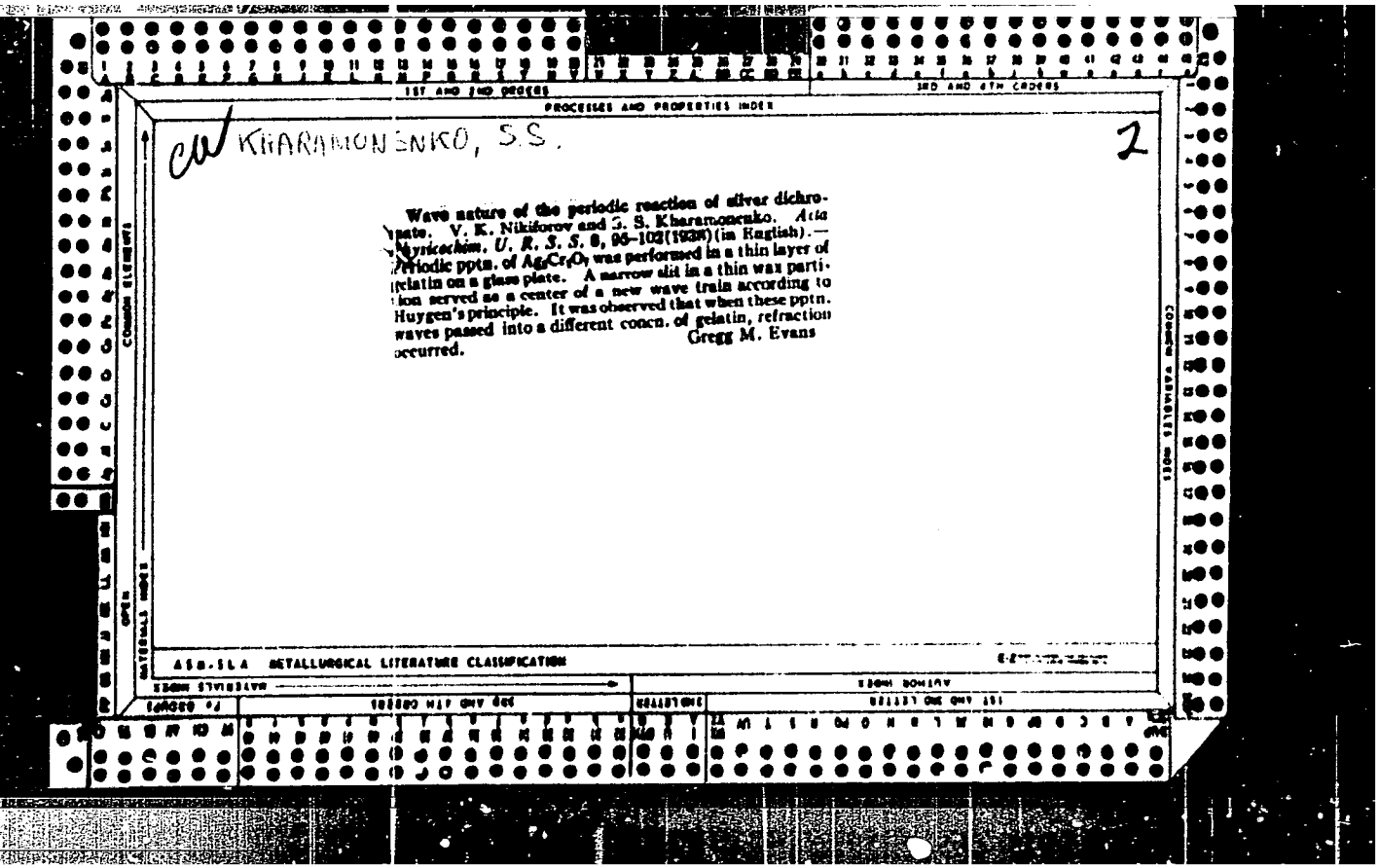


KHARAMENKO, S. S.

CA

Limited number of periodic stratifications. S. S. Kharamenko. *Colloid J.* (U. S. S. R.) 4, 235–9 (1938). —According to Christiansen and Wulf (*C. A.* 28, 6047[1]) the no. of periodic stratifications should be finite and approx. equal to $2\pi Mx/M$, M being the mol. wt. of the diffusing salt, h Planck's const. and x and t the distance and time of formation of a ppt. Christiansen and Wulf could not confirm the theory because they used hydrated salts with an indefinite M. In this work the hydration was eliminated by addn. of citric acid. Satd. $AgNO_3$ diffusing at 22° in gelatin contg. 0.006 N $K_2Cr_2O_7$ and 0.001 N citric acid, and satd. $Pb(NO_3)_2$ diffusing into agar-agar contg. 0.05 N KI and 0.001 N citric acid at 38° gave as many stratifications as the theory predicted.

J. J. Bikerman

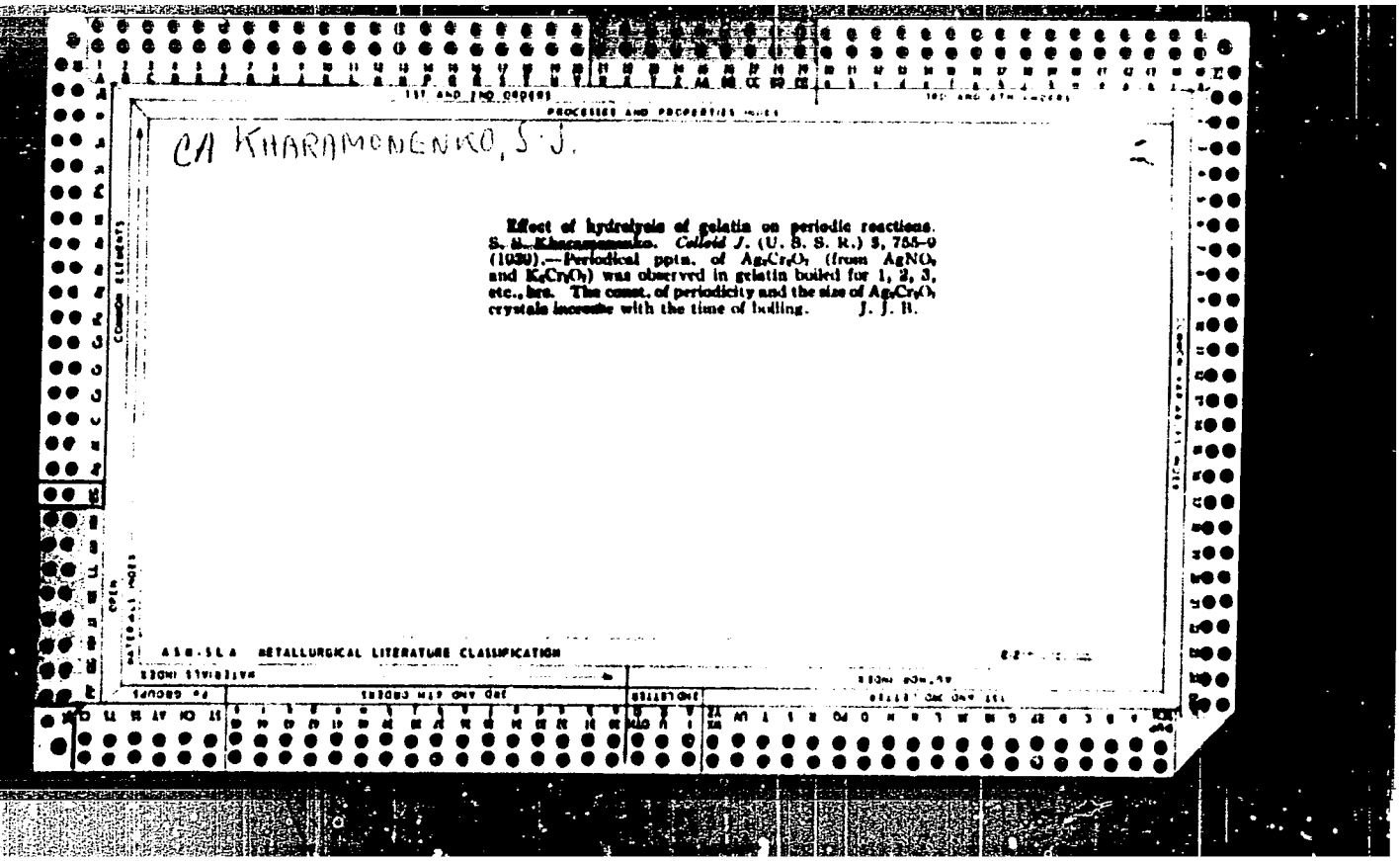


cat KHARAMONENKO, S.S.

2

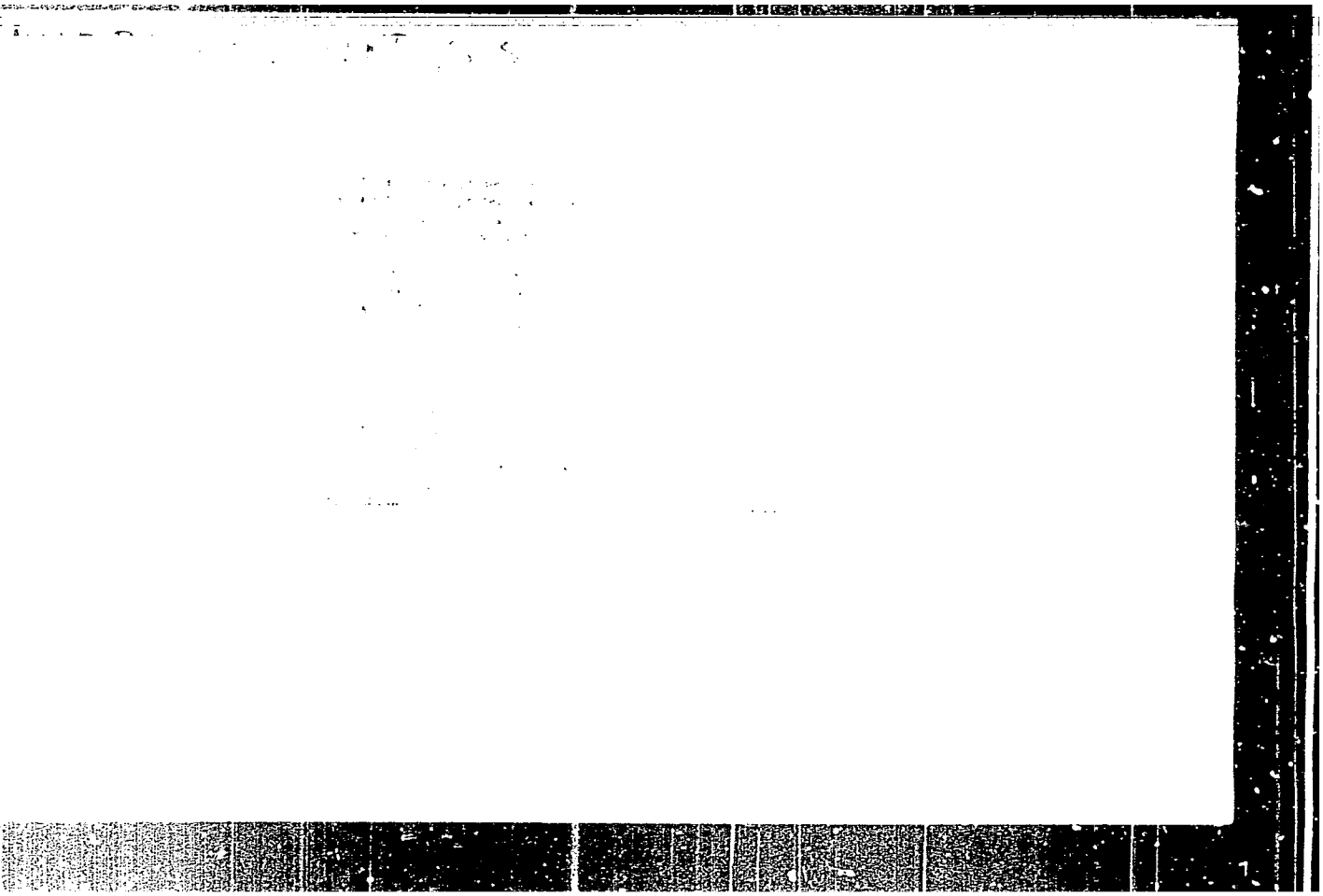
Wave nature of the periodic reaction of silver dichromate. V. K. Nikiforov and S. S. Kharamonenko. *Acta Physicochim. U. R. S. S.* 8, 95–102(1938)(in English).—Periodic pptn. of $Ag_2Cr_2O_7$ was performed in a thin layer of gelatin on a glass plate. A narrow slit in a thin wax partition served as a center of a new wave train according to Huygen's principle. It was observed that when these pptn. waves passed into a different concn. of gelatin, refraction occurred.

Gregg M. Evans



CA KHARAMONENKO, S. J.

Effect of hydrolysis of gelatin on periodic reactions. S. B. Kharamonenko. *Colloid J.* (U. S. S. R.) 3, 755–9 (1938).—Periodical ppts. of $Ag_2Cr_2O_7$ (from $AgNO_3$ and $K_2Cr_2O_7$) was observed in gelatin boiled for 1, 2, 3, etc., hrs. The const. of periodicity and the size of $Ag_2Cr_2O_7$ crystals increase with the time of boiling. J. J. B.



USSR / Human and Animal Physiology. Blood. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41187.

Author : Kharamonenka, S. S.; Rakitsyanskaya, A. A.
Inst : AS BSSR
Title : Bio-chemical Properties of Human Blood. Agglutinogens and their physiological Role in the Organism.

Orig Pub: Izv. AN BSSR. Ser. biol. n. 1956, No 4, 153-162.

Abstract: The investigation of the biochemical and serological properties of O, A, B and AB agglutinogens (AG) of erythrocytes (E) and plasma of men demonstrated that the AG of E are phosphatides and the AG of plasma-polysaccharides. A physiological activity of materials obtained from E and plasma was demonstrated in experiments on dogs; their activity was particularly evident in combination with heteroplasma. Isophosphatides in combination with hetero-

Card 1/2

RAKITYANSKAYA, A.A., KHARAMONENKO, S.S.

Group specificity and antigenic properties of leukocytes [with summary in English]. Probl.gemat. i perel. krovi. 3 no.4:50-53 Jl-Ag '58 (MIRA 11:8)

1. Iz Belorusskogo nauchno-issledovatel'skogo instituta perelivaniya krovi (dir. S.S. Kharamonenko).

(LEUKOCYTES,
group-specificity & antigenic properties of leukocytes (Rus))
(BLOOD GROUPS,
group-specificity & antigenic properties of leukocytes (Rus))

KHARAMONENKO, S.S.

24(7),24(0) Stepanov, B. I.; Academician AS
AUTHOR: Belorusskaya SSR

TITLE: Investigations by Belorussian Scientists in the Field of Spectroscopy and Luminescence (Raboty belorusskikh uchenykh po spektroskopii i lyuminestsentsii)

PERIODICAL: Vestnik Akademii nauk SSSR, 1959, Nr 1, pp 68-76 (USSR)

ABSTRACT: These investigations are being carried out at the Institut fiziki i matematiki (Institute of Physics and Mathematics) and the fizicheskiy fakul'tet Belorusskogo universiteta (Physics Department -- Belorussian University) under the direction of B. I. Stepanov, A. N. Sevchenko, M. A. Yel'yashevich, Academicians AS BSSR, and F. I. Fedorov, Corresponding Member, Academy of Sciences, BSSR. In the field of theoretical spectroscopy, the investigations by F. A. Ignatovich, B. I. Stepanov [illegible] are mentioned. Further, the following investigations are indicated:

A. P. Prishivalko, B. I. Stepanov developed a theory of dispersion light filters.
E. A. Boriscvich, Ya. S. Khvashchevskaya, A. P. Lapinskiy examined, by experiment, dispersion light filters for the infrared range.
A. P. Prishivalko analyzed the accuracy and the field of application of existing determination methods of optical constants of dispersed and not dispersed materials.
I. G. Fakhrabetdinov, A. A. Lebedi, Yu. D. Maryukov obtained important results concerning the kinetics of one single spark discharge (spectral intensity and discharge temperature).
A. A. Yankovskiy, F. S. Parakin examined the mutual influence of elements in spectrum analysis, and explained the methods for their elimination.
G. V. Ovchkin suggested a series of methods to eliminate [illegible] of third elements.
A. V. Ovchkin, P. P. Krivchenya suggested in working out a control method of benzyl penicillin in ordinary penicillin.

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E. A. Boriscvich, P. F. Maksimich, A. I. Petrova examined the infrared spectra of various products.
E. A. Boriscvich, V. I. Pesetich, I. F. Shtirvich examined a series of structural peculiarities of alcohol oxides.
E. A. Boriscvich worked out a luminescence method for the determination of the germinating power of the seed of some kinds of trees.
A. Ya. Prokopchuk obtained good results by the use of luminescence analysis in dermatology.
E. S. Pharmacenko examined the absorption spectra of the [illegible] polymer chloride complexes.
B. A. Markovskiy used spectral methods for analyzing albuminous fractions in the blood.
E. M. Pavlyuchenko, G. A. Lisenko, carried out an extensive spectrophotometrical examination of the formation of molecular and complex compounds in solutions.
E. A. Sevchenko spectroscopically examined the structure of various silicas.
B. I. Stepanov, A. N. Prir carried out theoretical investigations of the vibrational spectra of various silicate crystals

Card 6/8

RAKITIANSKAYA, A.A.; KHARAMONENKO, S.S.

Effect of blood phosphatides on hemopoiesis. Probl. gemat. i perel. krovi.5 no. 11:21-26 '60. (MIRA 14:1)
(PHOSPHATIDE) (HEMATOPOIETIC SYSTEM)

MARKEVICH, S.V.; KHARAMONENKO, S.S. [Kharamonenka, S.S.]; GORBUNOV, P.T. (Harbunou, P. TS.]; STAKHOVSKIY, Ye.V. [Stakhouski, IA.V.]; VOLOKHANOVICH, A.I. [Valakhanovich, A.I.]; BONDARENKO, N.T. [Bandarenka, M.TS.]

Radiolysis of polyglukin solution. Vestsi AN BSSR Ser. biial. nav. no.3:107-113 '64 (MIRA 18:1)

KHARAMONENKO, S.S.

Determining the compatibility of the blood of donors and recipients by electrophoresis of erythrocytes. Probl. gemat.i perel. krovi 6 no.1:43-47 '61. (MIRA 14:2)
(BLOOD GROUPS) (BLOOD—TRANSFUSION)
(ERYTHROCYTES)

KHARAMONENKO, S.S.; LAVROVA, L.V.

Antigenic properties of high polymeric polysaccharides isolated from protein and synthetic blood substitutes. Probl.gemat.i perel. krovi 1 no.1:53-56 Ja-F '56. (MIRA 14:1)

1. Iz Belorusskogo nauchno-issledovatel'skogo instituta pereli-vaniya krovi (dir. - S.S. Kharamonenko).
(POLYSACCARIDES) (ANTIGENS AND ANTIBODIES) (PROTEINS)
(BLOOD PLASMA SUBSTITUTES)

KHARAMONENKO, S. S.

"Chemical origin of human blood iso- and heteroagglutinogens and their physiologic role."

report submitted for 10th Cong, Intl Soc of Blood Transfusion, Stockholm, 3-8 Sep 64.

KHARAMOVA, M.I.

SUBJECT USSR/MATHEMATICS/Differential equations CARD 1/1 PG - 416
AUTHOR SLOBODECKIJ L.N., CHARAMOVA M.I.
TITLE On the uniqueness of the solution of the Cauchy problem for quasi-linear symmetric systems of differential equations.
PERIODICAL Uspechi mat. Nauk 11, 4, 155-162 (1956)
reviewed 12/1956

Usually the question on the uniqueness of the solutions of the Cauchy problem for non-linear partial differential equations in the region of non-analytic functions is reduced to the question of the uniqueness in the linear case. The authors show that in case of some (so-called symmetric) systems of first and second order the question of the uniqueness can be solved more easily by the direct consideration of the quasi-linear system. There the conditions for the uniqueness correspond to Osgood's conditions for the uniqueness of the solution of the Cauchy problem for systems of ordinary differential equations. Under a symmetric system the authors comprehend systems

$$\frac{\partial^2 u}{\partial t^2} = \sum_{i,j=1}^{n} A_{ij} \frac{\partial^2 u}{\partial x_i \partial x_j} + f\left(t, x, u, \frac{\partial u}{\partial t}, \frac{\partial u}{\partial x_1}, \ldots \frac{\partial u}{\partial x_n}\right),$$

where $A_{ij} = A_{ij}\left(t, x, u, \frac{\partial u}{\partial t}, \frac{\partial u}{\partial x_1}, \ldots, \frac{\partial u}{\partial x_n}\right)$ is a Hermitean matrix and $A_{ij} = A_{ji}$. Further for arbitrary vectors ξ_i it is demanded: $\sum_{i,j=1}^{n} (A_{ij} \xi_i, \xi_j) \geq \mu^2 \sum_{i=1}^{n} |\xi_i|^2$.

KHARANEN, V. YA.

PA 249T21

USSR/Physics - Acoustics 11 Jan 53

"Propagation of Sound in a Medium with Chance Fluctuations of the Index of Refraction," V.Ya. Kharanen

DAN SSSR, Vol 88, No 2, pp 253-256

States that subject problem is of interest in the investigation of propagation of sonic rays in the surface layer of the sea in the case of the presence of the jump layer (see V.A. Krasil'nikov "Sound Waves in Air, Water, and Solids" (Zvukovyye Volny v Vozdukhe, Vode, i Tverdykh), 1951). Thanks L.M. Brekhovskikh and M. A. Isakovich for their attention. Presented by Acad M. A. Leontovich 13 Nov 52.

249T21

KHARANEN, V. YA.

AUTHOR: Kharanen V. Ya.

TITLE: On the Time of Spin-Spin Relaxation in Nickel Fluosilicate without Constant Magnetic Field (O vremeni spin-spinovoy relaksatsii vo ftorosilikate v otsutstviye postoyannogo magnitnogo polya)

PERIODICAL: Izvestiya Akademii Nauk, Vol. XX, #11, pp 1245-1250 1956, USSR, Seriya fizicheskaya

ABSTRACT: A theoretical expression in the case of absence of a constant magnetic field is found for the spin -spin relaxation time, of the monocrystal of nickel fluosilicate $NiSiF_6 \cdot 12H_2O$.

The article uses the method of moments and is based on works by Shaposhnikov (1), Broer (3) and Van Vleck (4).

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L 13511-66

ACC NR: AP6007035 SOURCE CODE: HU/0018/65/017/003/0232/0237

AUTHOR: Vecsei, Pal--Vechei, P.; Kemeny, Armand; Harangozo, Maria--Kharangozo, M.

ORG: National Institute of Rheumatism and Balneology (Orszagos Rheuma es Furdougyi Intezet)

30
B

TITLE: Studies with tritium-labelled steroids

SOURCE: Kiserletes orvostudomany, v. 17, no. 3, 1965, 232-237

TOPIC TAGS: radioisotope, tracer study, rat, endocrinology, gland, animal physiology, tritium, hormone, biosynthesis, corticosteroids

ABSTRACT: This is the first time that H^3-labelled steroids were used for experimental purposes in Hungary. As the results of the first steps in this direction, the following has been shown. 1) The H^3-corticosterone experiment gave comparable results in the controls and in rats in the resistance stage of the general adaptation syndrome. 2) The ability of the rat adrenals to incorporate the activity of H^3-progesterone under various non-physiological conditions has been investigated. In addition to the most often studied compounds: corticosterone and aldosterone, the biosynthesis of two recently isolated steroids: 18-OH-corticosterone and 18-OH-desoxycorticosterone has also been studied. Orig. art. has: 4 figures.[JPRS]

SUB CODE: 06 / SUBM DATE: 20Jun64 / ORIG REF: 010 / OTH REF: 012

Card 1/1 HW

KHARANYAN, N. N.

Kharanyan, N. N. — "Physiological and Anatomical Peculiarities of Ramose Wheat in Connection with Its Productivity under Irrigation Conditions." Inst of the Physiology of Plants imeni K. A. Timiryazev of the Acad Sci USSR, Moscow, 1955 (Dissertation for Degree of Candidate of Biological Sciences).

SO: Knizhnaya Letopis', No. 23, Moscow, June, 1955, pp. 87-104.

KHARANYAN, N. N.

Anatomo-physiological differences of branching wheat under irrigation. N. S. Petinov and N. N. Kharanyan (K. A. Timiryazev Inst. Plant Physiol., Moscow). *Fiziol. Rastenii* 3, 10-22(1956).—Branching wheat (Kalchetinsk variety) was compared anatomically with the common wheat; the structural differences are detailed. The branching wheat responds more readily to irrigation, shows higher sucrose synthesis during bushing and tube formation, at milk ripeness the synthesis vanishes being replaced by hydrolysis as the result of which sucrose synthesis cannot be detected. Dry matter build up, starch, and N contents were lower in branching wheat and the seeds contained fewer amounts of these materials than in common wheat. Thus under drought conditions the branching wheat does not give satisfactory results. G. M. Kosakoff

PETINOV, N.S.; KHARANYAN, N.N.

Effect of mineral nutrition on the water regimen and yields of rice. Izv. AN SSSR. Ser. biol. no.3:380-388 My-Je '60. (MIRA 13:7)

1. Institute of Plant Physiology, Academy of Sciences of the U.S.S.R., Moscow.

(RICE--FERTILIZERS AND MANURES)
(RICE--IRRIGATION)

KHARANYAN, N.N.

Characteristics of respiration and the oxidation-reduction processes in rice grown under different nutritional conditions. Dokl. AN SSSR 150 no.1:195-198 My '63. (MIRA 16:6)

1. Predstavleno akademikom A.L.Kursanovym.
(Rice--Fertilizers and manures) (Plants--Respiration)
(Oxidation-Reduction reaction)

KHARANYAN, N.N.

Some physiological characteristics of the root system of rice under various conditions of mineral nutrition. Fiziol.rast. 9 no.4:488-492 '62. (MIRA 15:9)

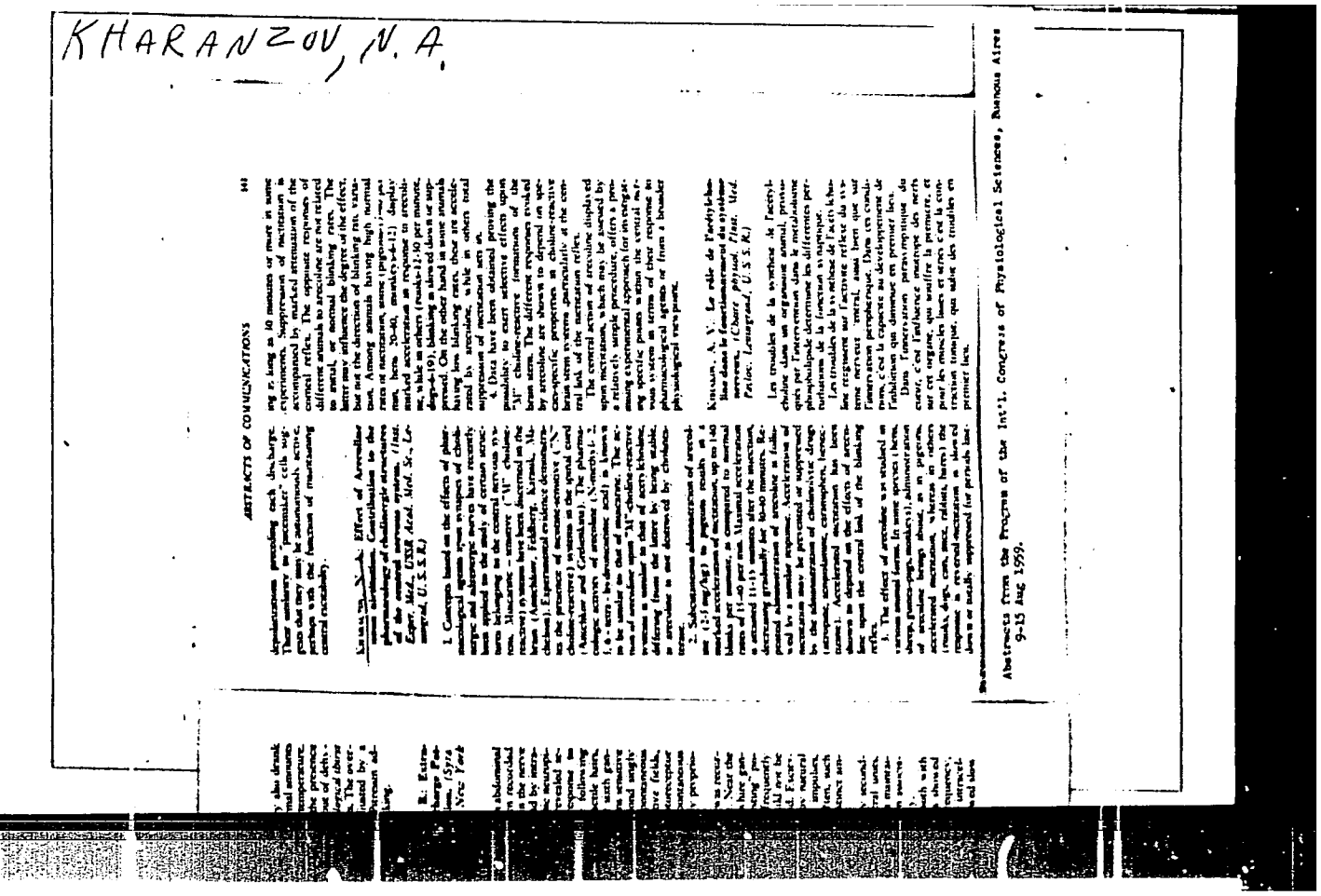
1. K.A.Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.
(RICE--FERTILIZERS AND MANURES) (ROOTS (BOTANY))

AKHRAMOVICH, L.A.

Water-retaining capacity of the wilting leaves of [illegible] in their drought resistance. Fiziol.rast. 12 no.1:170-172 Ja-F '65. (MIRA 18:3)

1. Institut fiziologii rastenly imeni Timiryazeva AN SSSR, Moskva.

KHARANZOV, N. A.



KHARIN, N.N.; KHARAPINSKIY, Ya.L., prof., red.; SPERANSKIY, V.A., red.

[Mathematical logic and the theory of sets; relation between the abstract and the concrete] Matematicheskaia logika i teoriia mnozhestv; o sootnoshenii abstraktnogo i konkretnogo. Moskva, Rosvuzizdat, 1963. 191 p. (MIRA 17:6)

KHARAFOV, G. S.

PA 233T9

USSR/Medicine, Veterinary - Epizootics Jan 52

"Paratyphoid of Young Horses in Herds," G.S. Kharafov, North Caucasian Trust of Stud Farms"

"Veterinariya" No 1, pp 23-31

Discusses frequent outbreaks of paratyphoid of young horses in herds. The animals are affected according to their ages, causing disease (produced by Bact-paratyphi abortus equi): abortion in mares, arthritis in colts, and paratyphoid in younger horses. Three basic manifestations of the disease are septic, intestinal, and lumbar. Occasionally, though rarely, a case combines all 3 forms. Frequently, the disease runs a concealed subacute course, and diagnosis can be established only by serological tests. Author recommends for diagnostic purposes bacteriol examns for paratyphoid of pathological material obtained from sick or dead horses, and serological reactions of complement fixation or agglutination. In the treatment of paratyphoid in young horses, the author recommends better sanitation in herds, prevention of worm infections, and the use of ASD, sulfanthrol, and penicillin in subacute stages of the disease. Author stresses the importance of considering this disease as a distinct, self-contained epizootic disease.

233T9

PHASE I BOOK EXPLOITATION SOV/5576

Akademiya nauk SSSR. Astronomicheskiy sovet.

Byulleten; stantsiy opticheskogo nablyudeniya iskusstvennykh sputnikov Zemli. no. 8 (18) (Bulletin of the Stations for Optical Observations of Artificial Earth Satellites. No. 8 (18)) Moscow, 1960. 23 p. 500 copies printed.

Sponsoring Agency: Astronomicheskiy sovet Akademii nauk SSSR.

Resp. Ed.: G. A. Lykin; Ed.: D. Ye. Shchegolev; Secretary: G. A. Severnaya.

PURPOSE: This bulletin is intended for scientists and engineers concerned with optical tracking of artificial satellites.

COVERAGE: The bulletin contains seven articles concerned with methods and equipment used for the photographic observation of artificial earth satellites, the brightness of satellites and equipment for its determination, and the results of photographic observation of satellites. No personalities are mentioned. There are 14 references, all Soviet.

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Bulletin of the Stations (Cont.) SOV/5576

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AC/dwm/mas
10-27-61

BUKHANTSEV, L.T.; KHARAPUT, V.M.

Device for the registration of a satellite's brightness and the determination of the period of its variation. Biul.sta. opt.nabl.isk.sput.Zem. no.8:9-12 '60. (MIRA 14:3)
(Artificial satellites--Tracking)(Photometry)

KHARAS, A.

Systems for the encouragement of administrative workers in production. Sots. trud no.2:67-73 F '58. (MIRA 11:1)
(Bonus system)

GERSHKOVICH, I.; KHARAS, A., nauchnyy sotrudnik

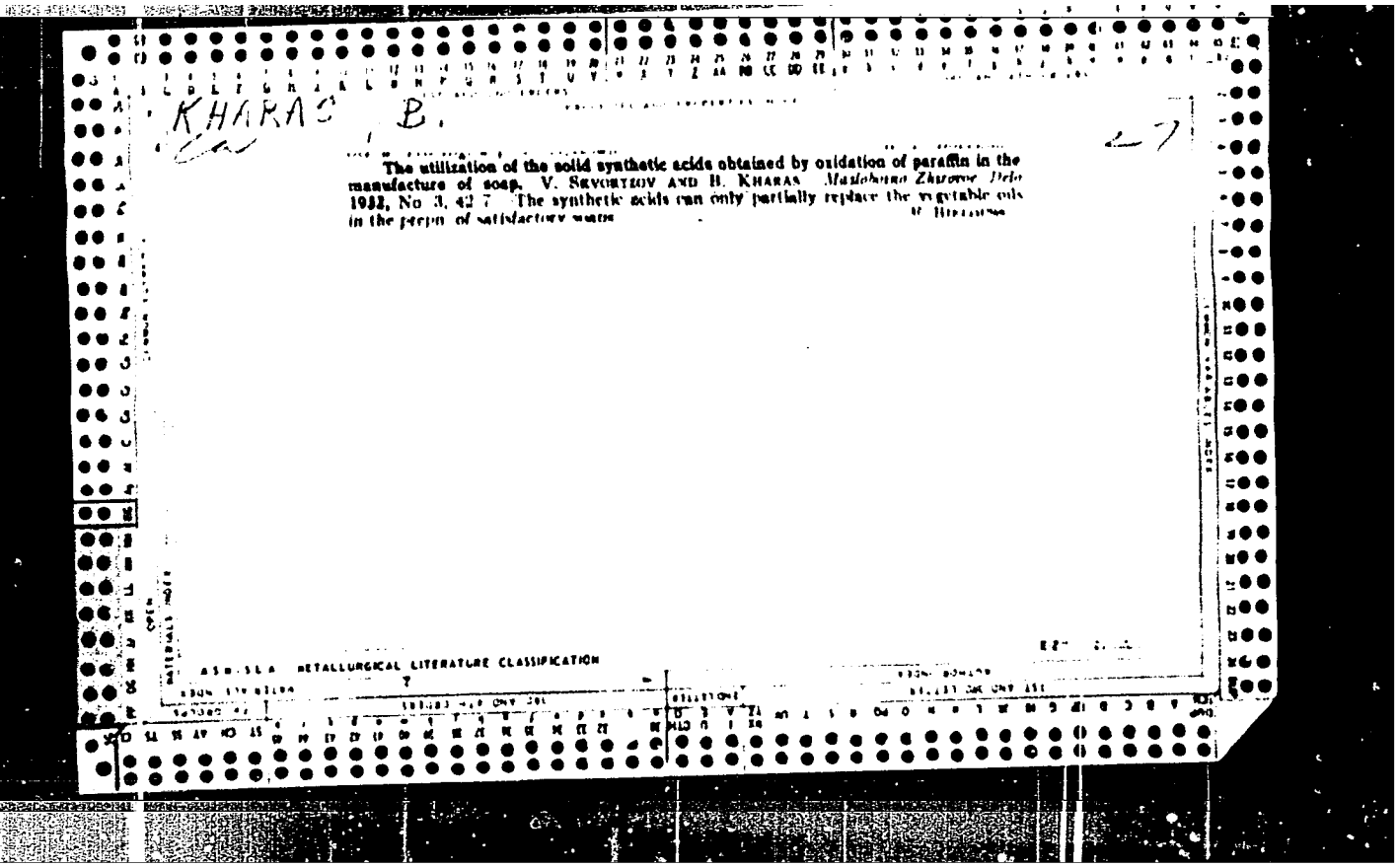
New features in the remuneration of technical personnel and clerical workers. Sots.trud 4 no.1:118-126 Ja '59. (MIRA 12:2)

1. Nachal'nik otdela truda i zarabotnoy platy zavoda imeni Vladimira Il'icha (for Gershkovich). 2. Nauchno-issledovatel'skiy institut truda (for Kharas).

(Wages)

KHARAS, A.; YANSON, F.

Paying bonuses to engineers, technicians and office employees for reducing production costs. Biul. nauch. inform.: trud i zar. plata 4 no.9:28-33 '61. (MIRA 15:1)
(Costs, Industrial) (Bonus system)



KHARAS, B.

The utilization of the solid synthetic acids obtained by oxidation of paraffin in the manufacture of soap. V. SEVORTSOV AND B. KHARAS. *Maslobono Zhirovoe Delo* 1932, No 3, 42-7. The synthetic acids can only partially replace the vegetable oils in the preps of satisfactory quality.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

KAGANOVICH, Raisa Semenovna; SHAYDAROVA, N.I.; KHARAS, K.K.; TIKHONOVA, V.I., nauchn. red.; ISH, N.N., red.; BARANOVA, N.N., tekhn. red.

[Teaching the course "Cookery" in vocational and technical schools] Prepodavanie kursa "Kulinariia" v professional'no-tekhnicheskikh uchilishchakh; razrabotki urokov. Moskva, Proftekhizdat, 1963. 126 p. (MIRA 17:4)

LIPATOVA, Nina Ivanovna; STEPANOVA, Ol'ga Mikhaylovna; KHARAS, K.K., nauchn. red.; ISH, N.N., red.; TOKER, A.M., tekhn. red.

[Industrial training of cooks] Proizvodstvennoe obuchenie povarov; metodicheskoe posobie. Moskva, Proftekhizdat, 1963. 187 p. (MIRA 16:9)

1. Zamestitel' direktora po uchebnoy rabote professional'no-tekhnicheskogo uchilishcha No.10 Leningrada (for Lipatova). 2. Starshiy master proizvodstvennogo obucheniya professional'no-tekhnicheskogo uchilishcha No.10 Leningrada (for Stepanova).

(Cooking schools)

PHASE I BOOK EXPLOITATION SOV/4671

Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki. Seminar po pnevmogidravlicheskoy avtomatike. 2d and 3d session

Voprosy pnevmo- i gidro- avtomatiki (Problems in Pneumatic and Hydraulic Automation) Moscow, 1960. 211 p. Errata slip inserted. 4,500 copies printed.

Resp. Ed.: M.A. Ayzerman, Doctor of Technical Sciences, Professor; Ed. of Publishing House: A.A. Tal'; Tech. Ed.: S.G. Tikhomirova.

PURPOSE: This collection of articles is intended for scientific workers, industrial designers and engineers interested in automation and telemechanics.

COVERAGE: The collection of 23 articles is a continuation of an earlier work of the Academy of Sciences USSR, on pneumatic and hydraulic automation systems, published in 1959. A wide range of problems connected with the design and operation of pneumatic and hydraulic automation equipment is described. In addition to problems based on experiments, the collection also contains discussions of new trends in the field, such as the possibility of using very low pressure for the operation of pneumatic devices. Some articles of this collection were written in the German Democratic Republic and in Czechoslovakia and reflect a somewhat different approach to automation problems. No personalities are mentioned. References accompany most of the articles.

PNEUMATIC AND HYDRAULIC DEVICES AND SYSTEMS OF AUTOMATIC REGULATION

PNEUMATIC COMPUTING-SOLVING AND SCANNING DEVICES

PNEUMATIC AND HYDRAULIC AUTOMATION DEVICES IN THE GERMAN DEMOCRATIC REPUBLIC AND CZECHOSLOVAKIA

AVAILABLE: Library of Congress (TJ840.S42)

Card 5/5

AC/dwm/gmp
1-12-61

S/194/61/000/008/031/092
D201/D304

AUTHORS: Anders, V.R., Berenda, T.K. and Kharas, N.L.

TITLE: A pneumatic output control chromatograph ХПР-1П (KhPR-1P)

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 37, abstract 8 V286 (V sb. Vopr. pnevmo i gidroavtomatiki, M., AN SSSR, 1960, 162-166)

TEXT: A note on the design of a regulator controlling the composition of gaseous media and based on a recording chromatograph. The instrument operates as follows: The analyzed gas, mixed with the carrier, is passed through a chromatographic column filled by a special sorbent. The constituents of the analyzed gas pass through the column with velocities depending on their adsorption properties and appear consecutively at the output of the column as a binary mixture with the carrier gas. Every mixture proceeds then to the measuring element of the detector, in which its thermal conductivity

Card 1/2

KHARAS, Z.B., inzhener (Molotov) ;KERSH, I.K., inzhener (Molotov).

Assembly of vacuum columns in large sections. Stroi.i neft. prom. 2 no.1:19-22 Ja '57. (MLRA 10:3)
(Petroleum--Refining)

GONITEL', K.I., inzh.; KHARAS, Z.B., inzh.(Moskva)

Advanced method for assembling rectifying columns. Stroi.pred.neft. prom. 2 no.8:22-23 Ag '57. (MIRA 11:1)
(Petroleum refineries--Equipment and supplies)

AUTHOR: Kharas, Z. B., Engineer (Moscow). 95-11-5/14

TITLE: Industrial Construction Methods in Designing Petroleum Industry Installations
(Proyektirovat' neftezavodskoye oborudovaniye s uchetom industrial'nykh metodov stroitel'stva).

PERIODICAL: Stroitel'stvo Predpriyatiy Neftyanoy Promyshlennosti, 1957, Nr 11, pp. 14-16 (USSR).

ABSTRACT: One of the most complicated groups of construction in the mounting of the technical equipment of mineral oil works is that of the tube furnace. When enlarging tube furnaces it is necessary frequently to screw down the sheet metal furnace lining by means of bolts. In some furnace constructions parts are riveted together.
For many years it has been found useful to replace the numerous shaped bricks by blocks of refractory concrete.
Recent experience gained in assembling indicates the necessity of revising existing projects for tube furnaces, in that constructional parts should be supplied in large blocks by the plants where they are produced, and, if possible, parts should be welded together instead of being screwed together.
Considerable interest is caused by the experience gathered in assembling

Card 1/2

the rectification columns which have been repeatedly used in the Lyubertsy Petroleum Refinery.

If one considers the great intensity of work and the time it takes to assemble the disks of rectification columns, it will be found necessary to revise the regulations for assembling and welding the disks and also revising their diameters as soon as possible.

Assembly of the heavy apparatus requires many workers and is very complicated. The assembly of the technological equipment and of buildings on the site where the plant is to be erected is of great importance. The project at present being worked out of new technological plants differ considerably from those already under construction.

Planning-, constructional- and assembly-engineers must come to an agreement as to the technology of assembling metal constructions, technological apparatus, and buildings. It is therefore advisable to place draughts of technological plants, which are still in a preliminary stage of construction, at the disposal of such organizations as are occupied with the building and the assembly of the plants concerned.

There are 4 figures and 1 Slavic reference.

AVAILABLE: Library of Congress.

Card 2/2

KHARAS, Z.B.

Efficient scheme for assembling combined petroleum refineries.
Nov. tekh. mont. i spets. rab. v stroi. 21 no.2:7-11 F '59.
(MIRA 12:1)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut po stroitel'stvu magistral'nykh truboprovodov.
(Petroleum refineries--Equipment and supplies)

KHARAS, Z. B., inzh.

Transportation of large heavy apparatus. Mov. tekh. mont. i spets. rab. v stroi. 21:27-30 Je '59. (MIRA 12:8)
(Petroleum industry--Equipment and supplies)

KHARAS, Z.B., inzh.; IGNATCHENKO, Ye.A., inzh.

Optimum load capacity of tower hoists in assembling vertical apparatus for petroleum refineries. Prom. stroi. 37 no.7:57-60 Jl '59. (MIRA 12:10)

(Petroleum refineries--Equipment and supplies)
(Hoisting machinery)

KHARAS, Zakhariy Borisovich; PEREVERZEV, V.V., red.; RASTOVA, G.V., vedushchiy red.; VORONOVA, V.V., tekhn. red.

[Rigging operations in installing equipment at petroleum refineries] Takelazhnye raboty pri montazhe oborudovaniia neftepererabatyvaiushchikh zavodov. Moskva, Gos.nauchno-tekhn.izd-vo neft.i gorno-toplivnoi lit-ry, 1961. 258 p. (MIRA 15:1)

(Petroleum refineries--Equipment and supplies)

KHARAS, Z.B., inzh.

The coefficient of safety of steel cables in the assembly of elements and parts. Mont. i spets. rab. v stroi. 24 no.7:28-29 Jl '62. (MIRA 15:6)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.
(Hoisting machinery--Rigging)

YURGEL', B.I., inzh.; KHARAS, Z.B.

Flow sheets for hoisting vertical apparatus and equipment. Mont. i spets. rab. v stroi. 23-27 '62. (MIRA 15:6)

1. Glavnoye upravleniye po montazhu oborudovaniya neftyanoy promyshlennosti Ministerstva stroitel'stva RSFSR i Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.
(Hoisting machinery)

MOLOKANOV, Yuriy Konstantinovich; KHARAS, Zakhariy Borisovich; ZIL'BERBERG, D.L., inzh., retsenzent; SVYATITSKAYA, K.P., ved. red.; POLOSINA, A.S., tekhn. red.

[Assembly of apparatus and equipment of petroleum and gas refineries and petrochemical plants] Montazh apparatov i oborudovaniia neftegazoperabatyvaiushchikh i neftekhimicheskikh zavodov. Moskva, Gostoptekhizdat, 1963. 342 p. (MIRA 17:2)

KHARAS, Z.B., inzh.; FEDOROV, V.M., inzh.

Heavy-duty trailers for transporting heavy and large technical equipment. Mekh.stroi. 20 no.5:28-31 My '63. (MIRA 16:4)
(Truck trailers)

GAL'PERIN, M.I., doktor tekhn. nauk, prof.; KHARAS, Z.B., inzh.

"Planning the organization and execution of assembly work; basic designs of rigging equipment" by M.P. Demat and others. Reviewed by M.I. Gal'perin, Z.B. Kharas. Mont. i spets. rab. v stroi. 25 no.5:31-32 My '63. (MIRA 16:7)

(Hoisting machinery--Rigging)
(Demat, M.P.) (Ioselovskii, I.V.) (Koperin, V.V.)
(Nikul'shin, IU.D.) (TSukerman, D.P.)

KHARASAKHAL, V.

Mathematical Reviews
Vol. 14 No. 8
Sept. 1953
Analysis

Harasahal, V. · On fundamental solutions of denumerable systems of differential equations. Izvestiya Akad. Nauk Kazah. SSR 1950, no. 97, Ser. Mat. Meh. 4, 98–108 (1950). (Russian)

In this and the following four reviews the general topic and relevant references are the same. The references are as follows: Lyapunov, Problème général de la stabilité du mouvement, Princeton, 1947 [these Rev. 9, 34]; Feraidskil, Izvestiya Akad. Kazah. SSR 1948, no. 56, Ser. Mat. Meh. 2, 3–35; Akad. Nauk SSSR. Prikl. Mat. Meh. 14, 23–44, 635–650 (1950); Doklady Akad. Nauk SSSR (N.S.) 14, 541–543 (1937); 63, 229–232 (1948) [these Rev. 14, 47; 11, 520; 12, 500; 10, 299; see also the preceding review]; Harasahal, Izventiya Akad. Nauk Kazah. SSR 1949, no. 60, Ser. Mat. Meh. 3, 77–84 [these Rev. 14, 48]; Malkin, C. R. (Doklady) Acad. Sci. URSS (N.S.) 18, 159–162, 162–164 (1938).

In all these papers the basic space is the bounded subset B of a countable normed space. If $x_1, x_2, \cdots$ are coordinates

KHARASAKHAL, V.

P-2, 3.

14(1); 14(10) PHASE I BOOK EXPLOITATION SOV/1281

Akademiya nauk Kazakhskoy SSR. Sektor matematiki i mekhaniki

Trudy, t. 1 (Transactions of the Mathematics and Mechanics Section, Kazakh S.S.R. Academy of Sciences, v. 1) Alma-Ata, Izd-vo AN Kazakhskoy SSR, 1958. 207 p. 2,500 copies printed.

Ed.: Vaslavskiy, N.A. and Shevchuk, T.I.; Tech. Ed.: Rorokina, Z.P.; Editorial Board: Akushskiy, I.Ya., Archashnikov, V.P., Zhautykov, O.A. (Resp. Ed.), Zhilenko, L.G. (Resp. Secretary), Molyukov, I.D., Strel'tsov, V.V.

PURPOSE: This book is intended for scientists, and students taking senior physics and mathematics courses at vuzes.

COVERAGE: The book contains contributions by scientists in Kazakhstan in the fields differential equations, theory of elasticity, algebra, nomography, calculation by machine, theory of plasticity, mechanics of a medium of variable mass, etc. It is dedicated to the 10th anniversary of the organization of the Sektor matematiki i mekhaniki Akademii nauk Kazakhskoy SSR (Mathematics and Mechanics Section, Academy of Sciences, Kazakh SSR.)

Card 1/ 4

Transactions of the Mathematics (Cont.) SOV/1281

TABLE OF CONTENTS:

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KHARASAKHAL, V.Kh.

Almost periodic solutions of simultaneous differential equations. Izv.AN Kazakh.SSR.Ser.mat. i mekh. no.7:72-76 '59. (MIRA 12:5)

(Differential equations)

KHARASAKHAL, V. Kh.

Almost periodic solutions of simultaneous differnetial equations. Izv.AN Kazakh.SSR.Ser.mat.i mekh. no.8:82-97 '59. (MIRA 13:5)
(Differential equations)

KHARASAKHAL, V.Kh. (Alma-Ata)

A generalization of the Bohr and neugebauer theorem. Prikl. mat. i mekh. 23 no.3:595 My-Je '59. (MIRA 12:5)
(Differential equations)

KHARASAKHAL, V.Kh. (Alma-Ata)

Almost periodic solutions of nonlinear systems of differential equations. Prikl.mat.i mekh. 24 no.3:565-567 My-Je '60.
(MIRA 13:10)
(Differential equations)

11.3400

25774
S/020/61/139/002/004/017
C111/C333

AUTHOR: Kharasakhal, V. Kh.

TITLE: A method of investigating linear systems of differential equations with quasiperiodic coefficients

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 139, no. 2, 1961, 313-315

TEXT: The author considers the system

$$\frac{dx_s}{dt} = \sum_{k=1}^{n} P_{sk}x_k \quad (s = 1,\dots,n) \qquad (1)$$

where $P_{sk} = P_{sk}(t)$ are quasiperiodic with common frequency base $\beta_1,\dots,\beta_m$ so that $P_{sk}(t) = F_{sk}(t,\dots,t)$, where $F_{sk}(u_1,\dots,u_m)$ are continuous periodic functions of the u_k with periods $\omega_k = \frac{2\pi}{\beta_k}$. The system

$$\sum_{k=1}^{m} \frac{\partial x_s}{\partial u_k} = \sum_{i=1}^{n} F_{si}(u_1,\dots,u_m)\,x_i = A_s \quad (s=1,\dots,n) \qquad (2)$$

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25774
S/020/61/139/002/004/017
C111/C333

A method of investigating linear ... is set up. Let

$$x_{1k}(u_1,\dots,u_m),\dots,x_{nk}(u_1,\dots,u_m)(k = 1,\dots,n) \qquad (3)$$

be n solutions of (2) such that the diagonal functions

$$x_{1k}(t,\dots,t),\dots,x_{nk}(t,\dots,t)\ (k = 1,\dots,n)$$

form a fundamental system of the solutions of (1)

Let

$$x_{sk}(t+\omega_1,\dots,t+\omega_m) = a_{1k}x_{s1}(t,\dots,t) + \dots + a_{nk}x_{sn}(t,\dots,t)$$
$$(s,k = 1,\dots,n).$$

Assume that the system (1) has the property that from

$$x_s(t,\dots,t) = c_1x_{s1}(t,\dots,t) + \dots + c_nx_{sn}(t,\dots,t)(s=1,\dots,n) \qquad (4)$$

(general solution of (1), c_k--constants) it follows:

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A method of investigating linear ...

$$x_s(t+\omega_1, \ldots, t+\omega_m) = a_1 x_{s1}(t+\omega_1, \ldots, t+\omega_m) + \ldots +$$
$$+ a_n x_{sn}(t+\omega_1, \ldots, t+\omega_m).$$

This property is called condition ($\mathfrak{A}$) and is assumed to be satisfied. Let a be the matrix (a_{sk}) and E the unit matrix. The equation

$$|a - \lambda E| = 0 \qquad (6)$$

is called characteristic equation of (1). It is stated:

I. (6) does not change, if (1) is subject to a non-degenerated linear transformation with quasiperiodic coefficients with common frequency base $\beta_1, \ldots, \beta_m$.

II. The roots λ_k of (6) do not depend on the choice of the fundamental system of (1).

III. To every root λ_k of (6) there corresponds a solution

Card 3/4

A method of investigating linear ...

$$x_s(t) = \Phi_s(t)\, e^{\alpha_k t} \quad (s = 1, \ldots, n),$$

of (1), where $\Phi_s(t)$ are quasiperiodic functions

$$\alpha_k = \frac{\delta_1 + \ldots + \delta_m}{\omega_1 \delta_1 + \ldots + \omega_m \delta_m} \ln \lambda_k \, , \; \delta_k$$ -- constants (some can vanish).

IV. (1) can be brought into a system with constant coefficients by a non-degenerated linear transformation with quasiperiodic coefficients.

The author thanks B. M. Levitan, Professor, for advices.

There is 1 Soviet-bloc and 1 non-Soviet-bloc reference.

PRESENTED: March 7, 1961, by J. G. Petrovskiy, Academician
SUBMITTED: March 1, 1961

Card 4/4

KHARASAKHAL, V.Kh.

Method for investigating linear systems of differential equations with quasi-periodical coefficients. Dokl. AN SSSR 139 no.2:313-315 Jl '61. (MIRA 14:7)

1. Predstavleno akademikom I.G. Petrovskim.
(Differential equations, Linear)

16.2500

41447

S/044/62/000/009/009/069
A060/A000

AUTHOR: Kharasakhal, V. Kh.

TITLE: On almost-periodic solutions of differential equations

PERIODICAL: Referativnyy zhurnal, Matematika, no. 9, 1962, 26 - 27, abstract 9B140 ("Tr. mekhan. matem. fak. Kazakhsk. un-t", 1960, v. 1, no. 2, 248 - 259)

TEXT: For the system

$$\frac{dx_s}{dt} = \sum_{r=1}^{n} p_{sr}(t)x_r (s = 1, 2, \ldots, n) \qquad (1)$$

with almost-periodic $p_{sk}(t)$ the Floquet problem is solved. For this, together with (1) the system

$$\sum_{r=1}^{m} \frac{\partial x_s}{\partial u_r} = \sum_{r=1}^{m} F_{sr}(u_1, u_2, \ldots, u_m) (s = 1, 2, \ldots, n) \qquad (2)$$

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S/044/62/000/009/009/069
A060/A000

is considered, where the F_{sr} are such that $F_{sr}(t, t, \ldots, t) = p_{sr}(t)$ according to the definition of almost-periodicity. If $\{x_s(u, \ldots, u)\}$ is a solution of equations (2) then $\{x_s(t, \ldots, t)\}$ is a solution of equations (1). The fundamental system of solutions $\{x_{sk}(t, \ldots, t)\}$ obeys a sufficiently rigorous condition which, when satisfied, allows one to write out an equation analogous to the characteristic equation, which makes it possible to ascertain the form of the solutions.

B. F. Bylov

[Abstracter's note: Complete translation]

KHARASAKHAL, V. Kh.

Characteristic Numbers of the Linear Systems of Differential Equations with Variable Coefficients p. 28

TRANSACTIONS OF THE 2ND REPUBLICAN CONFERENCE ON MATHEMATICS AND MECHANICS
[illegible] pages, published by the Publishing House of the Academy of Sciences Armenian SSR, Yerevan, 1962

KHAMASAKHAL, V. Kh.

Almost-periodical Solutions of the Systems of Differential Equations.
p. 65

TRANSACTIONS OF THE 2ND REPUBLICAN CONFERENCE ON MATHEMATICS AND MECHANICS (TRUDY VTOROY RESPUBLIKANSKOY KONFERENTSII PO MATEMATIKE I MEKHANIKE), 184 pages, published by the Publishing House of the AS KAZAKH SSR, ALMA-ATA, USSR, 1962

ZOLOTAREV, Yu.G.; KHARASAKHAL, V.Kh.

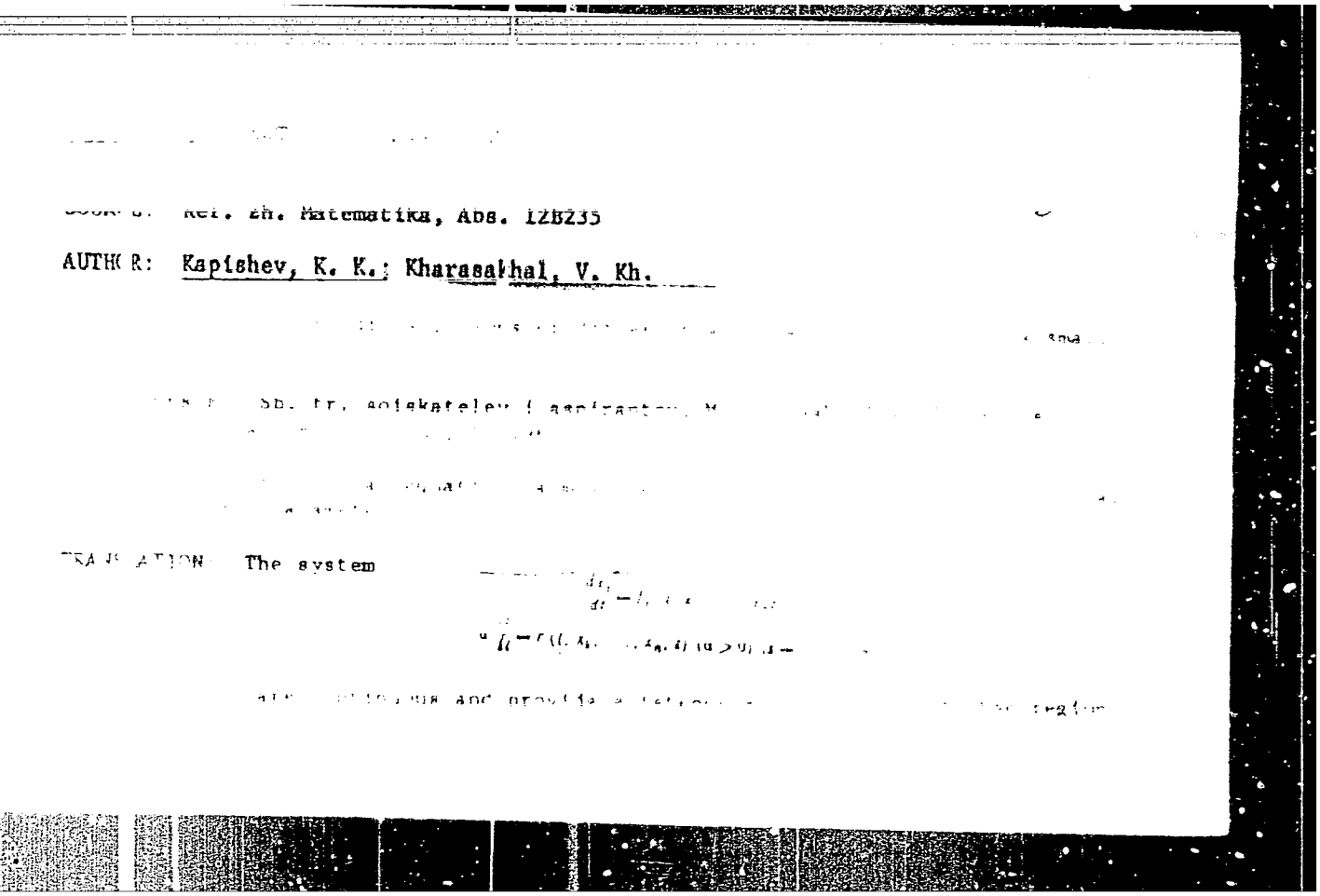
Structure of solutions and regularity of a system of linear differential equations. Izv. AN Kazakh. SSR. Ser. mat. i mekh. no.10:11-16 '62. (MIRA 15:9)

(Differential equations, Linear)

KHARASAKHAL, V.Kh.

Structure of solutions to and the regularity of linear systems of differential equations with quasi-periodic coefficients. Dokl. AN SSSR 146 no.6:1290-1293 O '62. (MIRA 15:10)

1. Predstavleno akademikom S.L. Sobolevym.
(Differential equations, Linear)



Ref. Zh. Matematika, Abs. 12B235

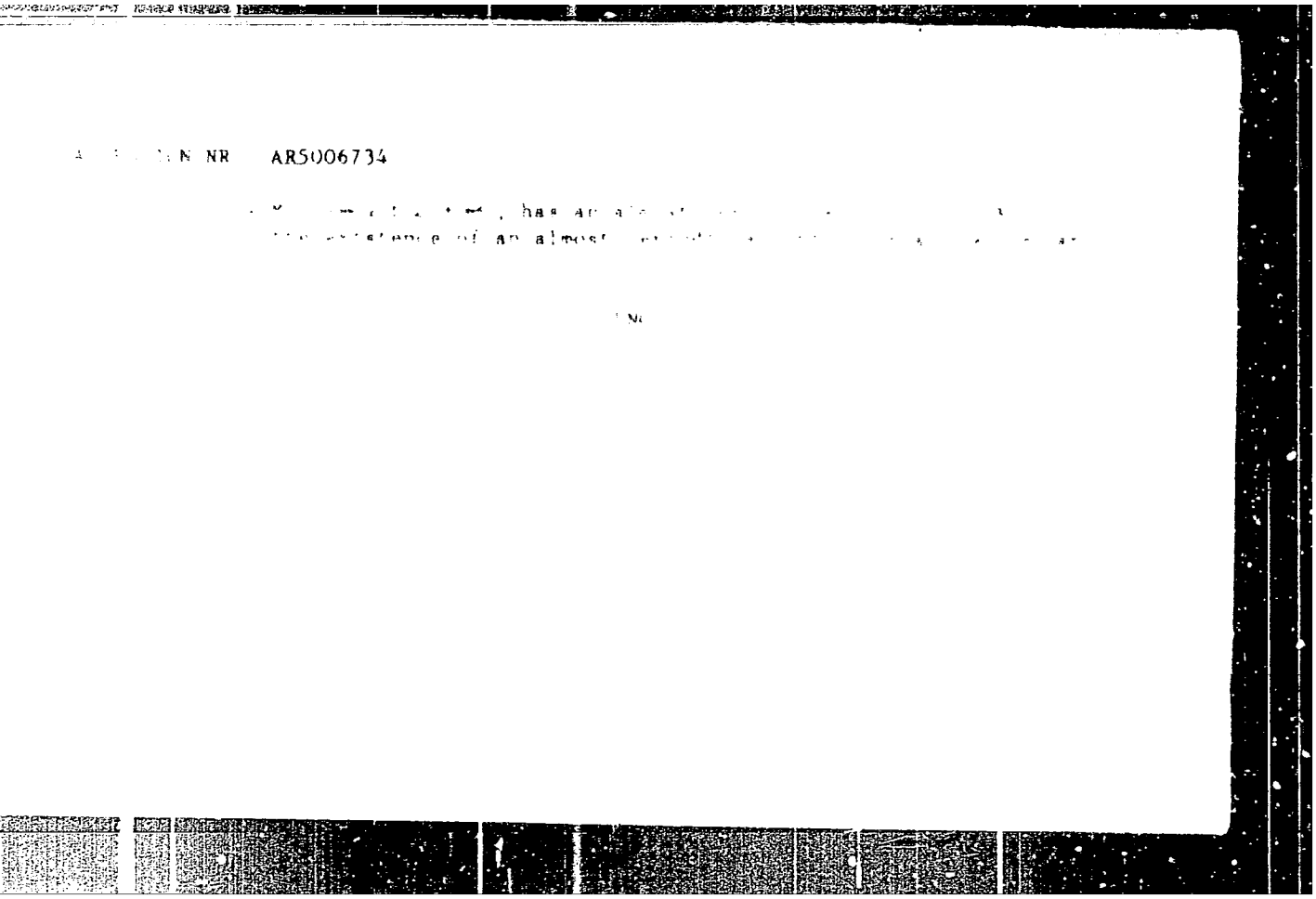
AUTHOR: Kapishev, K. K.; Kharasakhal, V. Kh.

Sb. tr. Aspirantov i soiskateley [aspirantov] M

TRANSLATION: The system

$$\frac{dx_i}{dt} = f_i(x_1, \ldots, x_n, t) \quad (i = 1, \ldots, n)$$

and provide a [illegible]



KHARASAKHAL, V.Kh.

A system of partial differential equations. Trudy Sekt. mat. i mekh. AN Kazakh. SSR 2:3-19 '63. (MIRA 16:10)

L 17107-63 EWT(d)/FSC(w)/BDS AFFTC/IJP(C) Pg-4

ACCESSION NR: AP3004113 S/0040/63/027/004/0672/0682

AUTHOR: Kharasakhal, V. Kh. (Alma-Ata) 57 56

TITLE: Quasilinear systems of solutions of ordinary differential equations 16

SOURCE: Prikladnaya matematika i mekhanika, v. 27, no. 4, 1963, 672-682

TOPIC TAGS: almost periodic, differential equation, partial differential equation, small parameter

ABSTRACT: For investigation of almost-periodicity in solutions of

$$\frac{dx}{dt} = P(t)\,x, \qquad P(t) = \|p_{sk}(t)\|_1^n \tag{1}$$

where P_{sk} are almost periodic, it is essential to work in a space of several dimensions. For this problem the author goes from (1) to a special set of partial differential equations. This permits him to reduce the problem of almost periodic oscillations to the problem of periodic oscillations. The almost-periodicity can be characterized via boundary conditions. The author develops a theory analogous to that of ordinary linear differential equations for this type of partial

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ACCESSION NR: AP3004113

differential equation, defining in particular a more general fundamental set of solutions. In the first section of this paper these methods are applied to (1), and the structure of solutions of such systems is established. The second section deals with nonlinear systems. The author develops some continuity theorems for the small parameter α of system (2)

$$dx / dt = f(t, x) + \alpha F(t, x, \alpha) \qquad (2)$$

at $\alpha = 0$. He thanks S. L. Sobolev. Orig. art. has: 28 formulas.

ASSOCIATION: none

SUBMITTED: 08Sep62 DATE ACQ: 15Aug63 ENCL: 00

SUB CODE: MM NO REF SOV: 007 OTHER: 000

Card 2/2

L 17682-65 EWT(d) Pg-4 IJP(c)/ASD(a)-5/AFWL/AFETR/ESD(dp)

ACCESSION NR: AP4049391 S/0361/64/000/002/0040/0042

AUTHOR: Kharasakhal, V. Kh.

TITLE: Application of the Poincare-Andronov operator to quasiperiodic solutions of differential equations

SOURCE: AN KazSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 2, 1964, 40-42

TOPIC TAGS: operator equation, differential equation, transformation, existence theorem

ABSTRACT: Given a system of differential equations

$$\frac{dx_s}{dt} = f_s(t, x_1, \ldots, x_n) \quad (s = 1, \ldots, n),$$

where $f_s(t, x_1, \ldots, x_n)$ are functions that are quasiperiodic in t.

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L 17682-65
ACCESSION NR: AP4049397

It is proved that in order for the system to have a quasiperiodic solution generated by the periodic solution of an auxiliary system of partial differential equation

$$Dx_s = \Phi_s(u_1, \ldots, u_m, x_1, \ldots, x_n) \quad (s = 1, \ldots, n)$$

where

$$\Phi_s(t, \ldots, t, x_1, \ldots, x_n) = f_s(t, x_1, \ldots, x_n)$$

and the periodic functions Φ_s have the same periods in the variables as the functions f_s (which are the diagonals of Φ_s), it is necessary and sufficient that certain transformation operators have specified stationary points. Orig. art. has: 6 formulas.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00

SUB CODE: MA NR REF SOV: 004 OTHER: 000

Card 2/2

ACCESSION NR: AP4033971 S/0140/64/000/002/0152/0164

AUTHOR: Kharasakhal, V. Kh.

TITLE: Almost periodic solutions of differential equations

SOURCE: IVUZ. Matematika, no. 2, 1964, 152-164

TOPIC TAGS: almost periodic solution, almost periodic oscillation, periodic oscillation, almost periodic coefficient

ABSTRACT: The author reduces the problem of almost-periodic oscillations to the problem of periodic oscillations by a new method he proposes for studying solutions of ordinary differential equations. This method is based on passing from the given system of equations to one in partial derivatives. Almost-periodicity is characterized with the help of boundary conditions. Using this method, the author studies linear systems with almost-periodic coefficients

$$\frac{dx_s}{dt} = P_{s1}x_1 + \ldots + P_{sn}x_n \quad (s = 1, \ldots, n), \qquad (1)$$

Card 1/2

ACCESSION NR: AP4033971

and establishes necessary and sufficient conditions for reducibility of such systems. He also investigates nonlinear systems

$$\sum_{m=1}^{n} \frac{\partial x_s}{\partial u_m} = A_s(u_1, \dots; u_m, x_1, \dots, x_n) + \varepsilon B_s(u_1; \dots, u_m, x_1; \dots, x_n, \varepsilon) \qquad (2)$$

$$(s = 1, \dots, n),$$

Part of this work was published previously by the author (Ob odnom metode issledovaniya lineynykh sistem differentsial'nykh uravneniy s kvaziperiodicheskim koeffitsiyentami. DAN SSSR, t. 139, No. 2, 1961). Orig. art. has: 39 formulas.

ASSOCIATION: none

SUBMITTED: 31Jan62 DATE ACQ: 07May64 ENCL: 00

SUB CODE: MA NO REF SOV: 006 OTHER: 000

Card 2/2

BIRYUKOV, Dmitriy Andreyevich, prof., otv. red.; GOLIKOV, N.V., red.; ZIMKIN, N.V., red.; KARAMYAN, A.I., red.; KUPALOV, P.S., red.; LAPINA, I.A., red.; VASIL'YEVA, Z.A., red.; KHARASH, G.A., tekhn. red.

[Problems of the physiology and pathology of higher nervous activity] Problemy fizologii i patologii vysshei nervnoi deiatel'nosti. Pod obshchei red. D.A.Biriukova. Leningrad, Medgiz. No.2. 1963. 192 p. (MIRA 16:12)

1. Akademiya meditsinskikh nauk SSSR, Moscow. 2. Deystvitel'nyy chlen AMN SSSR (for Biryukov).

(NERVOUS SYSTEM)

AUTHOR: KHARASH,L.I., SHINYAKOV,M.I., ELIASBERG,S.I. PA - 2392
"Mekhanobr" Institute.

TITLE: The Problems of Sinter Production. (Problemy aglomeratsionnogo proizvodstva, Russian).

PERIODICAL: Stal', 1957, Vol 17, Nr 2, pp 106 - 114 (U.S.S.R.)
Received: 5 / 1957 Reviewed: 5 / 1957.

ABSTRACT: In connection with the gradual exhaustion of the rich ore deposits and an increase of the yield of poorer deposits, the great quantities of ore have now been subjected to the processes of agglomeration and sintering. At present the developments resulted in the feed of only two raw materials: the agglomerate and the coke (instead of 4). It is shown that it is most useful to build a sintering area of 200 qm in the case of new constructions. The "Mekhanobr" Institute developed this project of such a plant and made the following demands: perfection of the technological sintering-process, improvement of the construction of the plant, far-reaching automation of production, decrease of cost price. The following items are then dealt with: the imperfections of the present sintering-plants; the new technological scheme where the averaging of the charge, the dosing of the fuel, the heating of the charge, and the cooling of the charge layer are described; constructional solutions for the plant, the new equipment, and the technical economic indices. Completion of such an experimental plant

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and the construction of new machinery for the sintering process in 1958 - 1960 are demanded. (2 tables, 5 illustrations and 4 citations from publications in Slav language).

ASSOCIATION: Not given.
PRESENTED BY:
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AVAILABLE: Library of Congress.

Kharash, L. I.

137-1957-12-23061

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 27 (USSR)

AUTHOR: Kharash, L. I.

TITLE: Experiments Conducted at a Sintering Plant to Determine the Requirements for the Automation of the Sintering Process (Postanovka opytov na aglomeratsionnoy fabrike dlya opredeleniya usloviy avtomatizatsii protsessa spekaniya)

PERIODICAL: Tr. N.-i. i proyektn. in-ta mekhan. obrabotki poleznykh iskopayemykh, 1957, Nr 100, pp 46-65

ABSTRACT: In order to develop methods for the automatic control of processes in sintering plants equipped with machines capable of continuous operation, the range of variations of the parameters (P) of the sintering (S) process and their interrelation were determined experimentally. Series of instantaneous measurements (every 2 to 5 min for a period of several hours) of the thickness of the flow of raw material and of the furnace charge (C) were taken simultaneously throughout the mixing line; concurrently, samples of the above materials were taken at a certain point along the conveyor for the purpose of weighing and for

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Experiments Conducted at a Sintering Plant (cont.)

chemical analysis. The samples for the testing for C and H_2O were taken in the machine itself at the time when the charge was placed on the grating. Continuous readings of the height of the charge layer were accomplished by means of connecting the charge flattener to an induction gauge through a system of jointed linkages. A continuous record of the velocity of the carts was also maintained. In order to control the temperature of the waste gases and to check the completion of the S process, thermocouples were installed not only in the elbows of all 13 chambers, but also in the upper section of the last five chambers. In the 12th chamber three thermocouples were installed additionally, namely, two in the vicinity of the sealing gasket of the machine and one in the lower section of the chamber. In order to determine the temperature of the gases under the layer of the material being sintered, and in order to establish the connection between it and the amount of C in the charge as well as the relation between that temperature and certain other P's, a battery of 18 thermocouples was installed in such manner that its bared terminals were located at a distance of 20-30 mm from the surface layer. In order to study the fracture of the sinter cake before it is dumped from the machine,

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Experiments Conducted at a Sintering Plant (cont.)

photographs of the fracture were taken at every 5th to 10th cart. The temperature of the gases under the layer being sintered is primarily influenced by the C content in the upper portion of the layer, but is also greatly dependent on the height of the layer, the velocity of the carts, and the moisture content of the charge.

A. M.

1. Sintering plants-Automation 2. Sintering plants-Characteristics
3. Sintering plants-Operation

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KHARASH, L.I.; VOLODIN, Ye.Ye.

Effect of conditions of hopper filling with mixture on the sintering process. Obog. rud 3 no.2:51-54 '58. (MIRA 11:11)
(Sintering)

KHARASH, I.I.

Ways of improving the production of sinter. Trudy Mekhanobr. no. 122:280-300 '59. (MIRA 14:4)
(Sintering) (Automatic control)