ZHDANOVA, Ye.A.; D'YACHENKO, P.F.; DRUZHKOVA, I.A., otv. red.; MANVELOVA, Ye.S., tekhn. red.

[Ferment preparations in the dairy industry]Fermentnye preparaty v molochnoi promyshlennosti. Moskva, TSentr. in-t nauchno-tekhn. informatsii pishchevoi promyshl., 1962. 61 p. (MIRA 16:3)
(Dairy products) (Fermentation)

D'YACHENKO, P.F.; ZHDANOVA, Ye.A.

Susceptibility of casein fractions to the action of proteolytic enzymes. Prikl. biokhim. i mikrobiol. 1 no.1:49-51 Ja-F '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut molochnoy promyshlennosti, Moskva.

ZHDANOVA, Ye.A.; VLODAVETS, I.N.

Paper electrophoresis study of proteins contained in cow's milk. Biokhimiia 24 no.3:398-403 My-Je '59. (MIRA 12:9)

1. The Union Research Dairy Institute, Moscow.
(MILK,
proteins, electrophoresis (Rus))
(PROTEINS, determ.
in milk, electrophoresis (Rus))

ACCESSION NR: AT4038174 S/2690/63/005/006/0225/0235

AUTHORS: Zhdanova, Ye. K.; Margulis, A. M.

TITLE: Procedure for processing the results of reliability tests on element parameters

SOURCE: AN LatSSR. Institut elektroniki i vy*chislitel'noy tekhniki. Trudy*, v. 5, 1963. Avtomatika i vy*chislitel'naya tekhnika (Automation and computer engineering), no. 6, 225-235

TOPIC TAGS: statistical analysis, transistor, quality control, reliability, test method

ABSTRACT: A program is developed for processing the initial statistical material gathered on the reliability of transistors by means of a digital computer. The processing program is applied to information gathered during three stages: prior to the transistor testing, after each succeeding measurement of the transistor parameters during

Card 1/2

ACCESSION NR: AT4038174

the course of the tests, and after the termination of the transistor reliability tests. The main parameters investigated are the probability of correct operation, the average time of correct operation, the failure rate, and the probability distribution of correct operation time. These parameters are defined in terms of their mathematical expectation, variance, and confidence intervals. The main program and the subprograms are described. Orig. art. has: 2 figures, 10 formulas, and 3 tables.

ASSOCIATION: None

SUBMITTED: 00 DATE ACQ: 04Jun64 ENCL: 00

SUB CODE: IE NR REF SOV: 003 OTHER: 000

Card 2/2

ZHDANOVA, Ye.S., inzh.

Simplified method for analyzing asphalt-concrete mixes. Avt. dor. 23 no.8:16-17 Ag '60. (MIRA 13:8)
(Asphalt concrete)

BUDARIN, V.A.; PANTELEYEV, N.A.; KOZLOV, O.A., otvetstvennyy redaktor; ZHDANOVA, Z.A., zamestitel' otvetstvennogo redaktora; RACHKO, V., redaktor; LUR'YE, A., tekhnicheskiy redaktor

[Album of visual aids for studying political economy; "capitalism" section] Al'bom nagliadnykh posobii po politicheskoi ekonomii; razdel "Kapitalizm." [Leningrad] Gos.izd-vo polit.lit-ry. Pt.2. 1956. 38 plates. (MLRA 10:10)

1. Kommunisticheskaya Partiya Sovetskogo Soyuza. Vysshaya partiynaya skola.
(Economic conditions)

ZHDANOVSKIY, N.S., doktor tekhn. nauk; GITLIN, N.N., kand. tekhn. nauk; NIKOLAYENKO, A.V., kand. tekhn. nauk

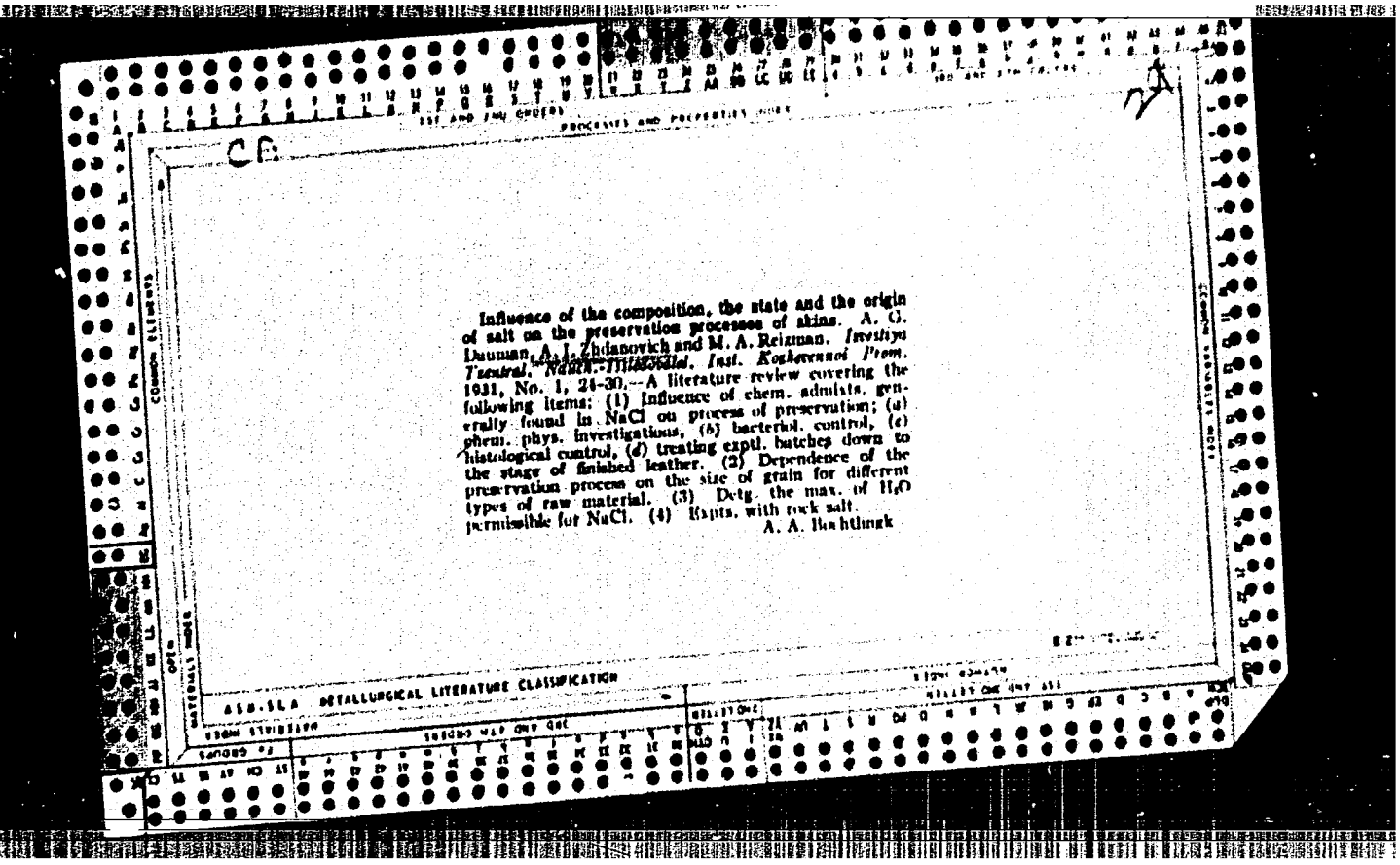
Investigating light fuel injection systems with a proportioning distributor. Avt. prom. 30 no.8:12-15 Ag '64. (MIRA 17:11)

1. Leningradskiy sel'skokhozyaystvennyy institut i TSentral'nyy nauchno-issledovatel'skiy i konstruktorskiy institut toplivnoy apparatury avtotraktornykh i statsionarnykh dvigateley.

YURKEVICH, V.V.; ZHDANOVICH, A.O.

Inactive form of adaptive enzymes and its relation with the energy metabolism of cells. Dokl. AN SSSR 139 no.5:1239-1241 Ag. '61. (MIRA 14:8)

1. Ural'skiy gosudarstvennyy universitet im. A.M. Gor'kogo. Predstavleno akademikom A.I. Oparinym.
(Invertase) (Metabolism) (Maltase)



Influence of the composition, the state and the origin of salt on the preservation processes of skins. A. G. Lauman, A. I. Zhdanovich and M. A. Reizman. *Izvestiya Tsentral. Nauch.-Issledovatel. Inst. Kozhevennoi Prom.* 1931, No. 1, 24-30.—A literature review covering the following items: (1) Influence of chem. admixts. generally found in NaCl on process of preservation; (a) chem. phys. investigations, (b) bacterial. control, (c) histological control, (d) treating exptl. batches down to the stage of finished leather. (2) Dependence of the preservation process on the size of grain for different types of raw material. (3) Detg. the max. of H_2O permissible for NaCl. (4) Expts. with rock salt.

A. A. Bashtinak

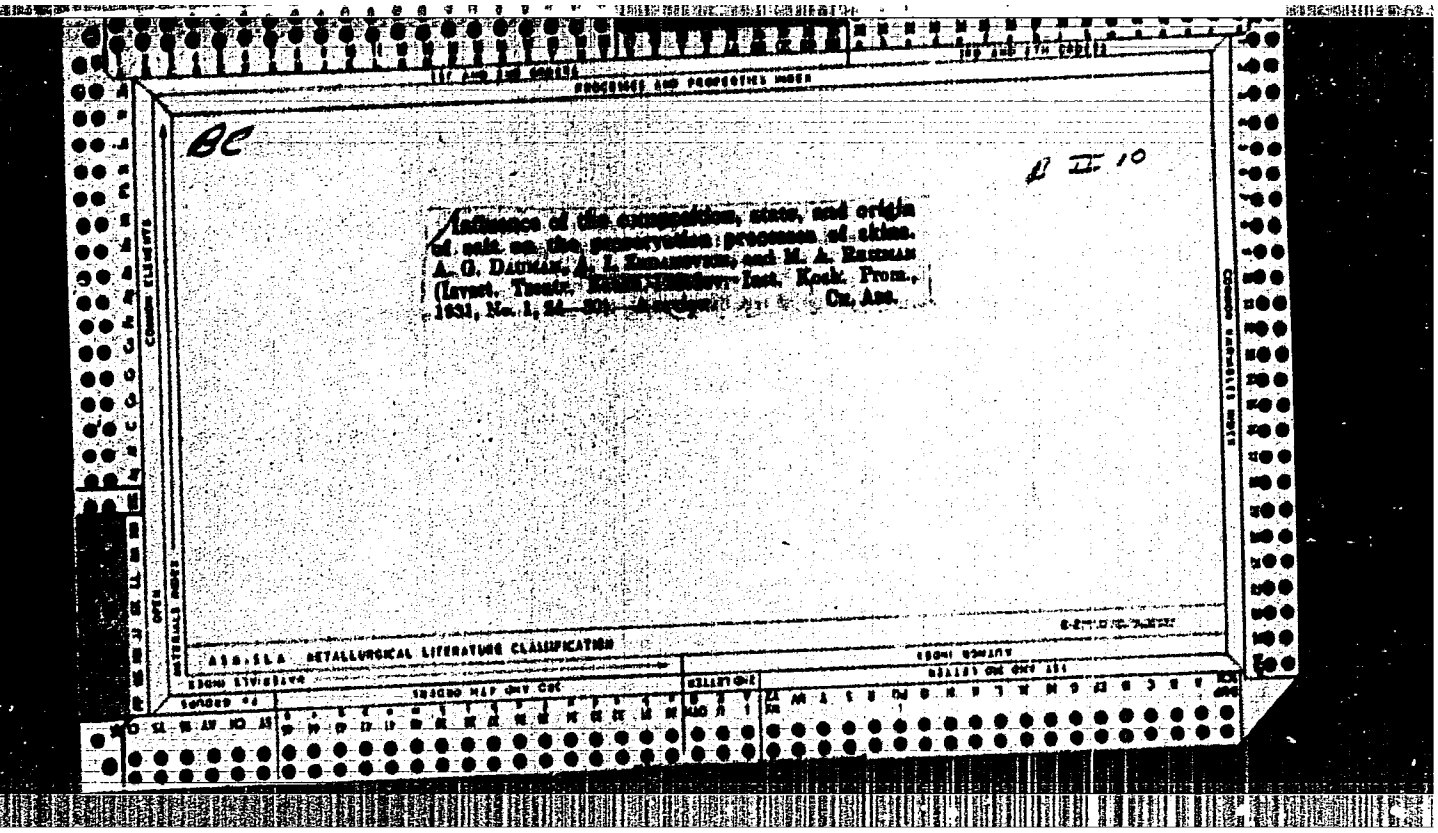
1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

C

Emulsions for fine glass wool. L. Ya. Kremnev and A. I. Zhdanovich. *Legkaya Prom.*, 7 [1] 37-38 (1947); abstracted in *Chem. Zentr.*, 1947, I [21/22] 1037.—In spinning glass wool an emulsion was used consisting of a mixture of castor oil and a product consisting half of petroleum sulfonic acids with 2 to 3% free H_2SO_4; 7.5% of this mixture was emulsified with 92.5% water. After the spinning process is completed, the mixture can be easily washed off with a solution of 0.2 to 0.25% ammonia.
M.Ha.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



KOROBKO, Aleksandr Il'ich; ZHDANOVICH, Aleksandr Stepanovich; KASHTANOV, F., red.; KALECHITS, G., tekhn. red.

[Reduce production costs; from the work practice of machinery manufacturing and machine-tool enterprises of the White Russian Economic Council] Snizhat' sebestoimost' produktsii; iz opyta raboty predpriiatii mashinostroeniia i metalloobrabotki SNKh BSSR. Minsk, Gos. izd-vo BSSR. Red. proizvodstvennoi lit-ry, 1962. 31 p. (MIRA 15:5)
(White Russia—Machinery industry—Costs)
(White Russia—Machine-tool industry—Costs)

ZHDANOVICH, E.
P. SHORUIGIN, ZhPKh 3, 1189-92, 1930

POPOV, K.S., kand. tekhn. nauk; GAYVORONSKAYA, Z.I.; UMANETS, V.P.; NILOV, V.I.; VALUYKO, G.G.; OKHREMENKO, N.S.; ZHDANOVICH, G.A.; DATUNASHVILI, Ye.N.; SERBINOVA, N.I.; MARCHENKO, G.S.; KURAKSINA, N.K.; TYURIN, S.T.; TYURINA, L.V.; KRIMCHAR, M.S.; RAZUVAYEV, N.I.; OGORODNIK, S.T.; MIKHAYLOV, S.M.; ZHILYAKOVA, O., red.; GLIKMAN, N., red.; FISENKO, A., tekhn. red.;

[Wine making; manual for the workers of wineries on state and collective farms in the Crimea] Vinodelie; rukovodstvo dlia rabotnikov vinodel'cheskikh zavodov sovkhozov i kolkhozov Kryma. Simferopol', Krymizdat, 1960. 415 p. (MIRA 16:3)
(Crimea--Wine and wine making)

ZHDANOVICH, G.A.; GEL'GAR, L.L.

New technological equipment of the wineries for the first-stage treatment of grapes. Trudy VNIIViV "Magarach" 9:33-52 '60.
(MIRA 13:11)

(Wine and wine making--Equipment and supplies)

ZHUAKOVICH, I. A.

Wine and Wine Making

Efficient arrangement of equipment in primary wineries. Vin. SSSR 12 no. 5 (1952)

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

ZHDANOVICH, G.F.

Device which registers the number of times auxiliary buttons have been used. Avtom.telem. i sviaz' 3 no.12:33 D '59. (MIRA 13:4)

1. Nachal'nik otdela signalizatsii, tsentralizatsii i blokirovki sluzhby signalizatsii i svyazi Severo-Kavkazskoy dorogi. (Railroads--Signaling--Interlocking systems) (Counting devices)

ACCESSION NR: AR4018309 S/0137/64/000/001/G035/G035

SOURCE: RZh. Metallurgiya, Abs. 1G243

AUTHOR: Zhdanovich, G. M.

TITLE: Certain aspects of the theory of pressing of metal powders and their mixtures

CITED SOURCE: Tr. Kuyby*shevsk. aviats. in-t, vy*p. 16, 1963, 31-39

TOPIC TAGS: metal powder pressing, metal powder compacting, metal powder briquette

TRANSLATION: Formulas were derived for determining the compacting pressure as a function of briquette density, allowing for pressure loss due to friction between the powder and the walls of the die. Methods are proposed for the experimental determination of the hardening index, coefficient of external friction, and "critical pressure" values, which enter into these formulas. It was shown that, to a first approximation, the pressure on the bottom of the die may be assumed equal to the difference between the pressure under the working punch and the pressure loss due to external friction. It was found that in the case of pressing rings, the side pressure on the die exceeds the side pressure on the rod; this results

Card 1/2

ACCESSION NR: AR4018309

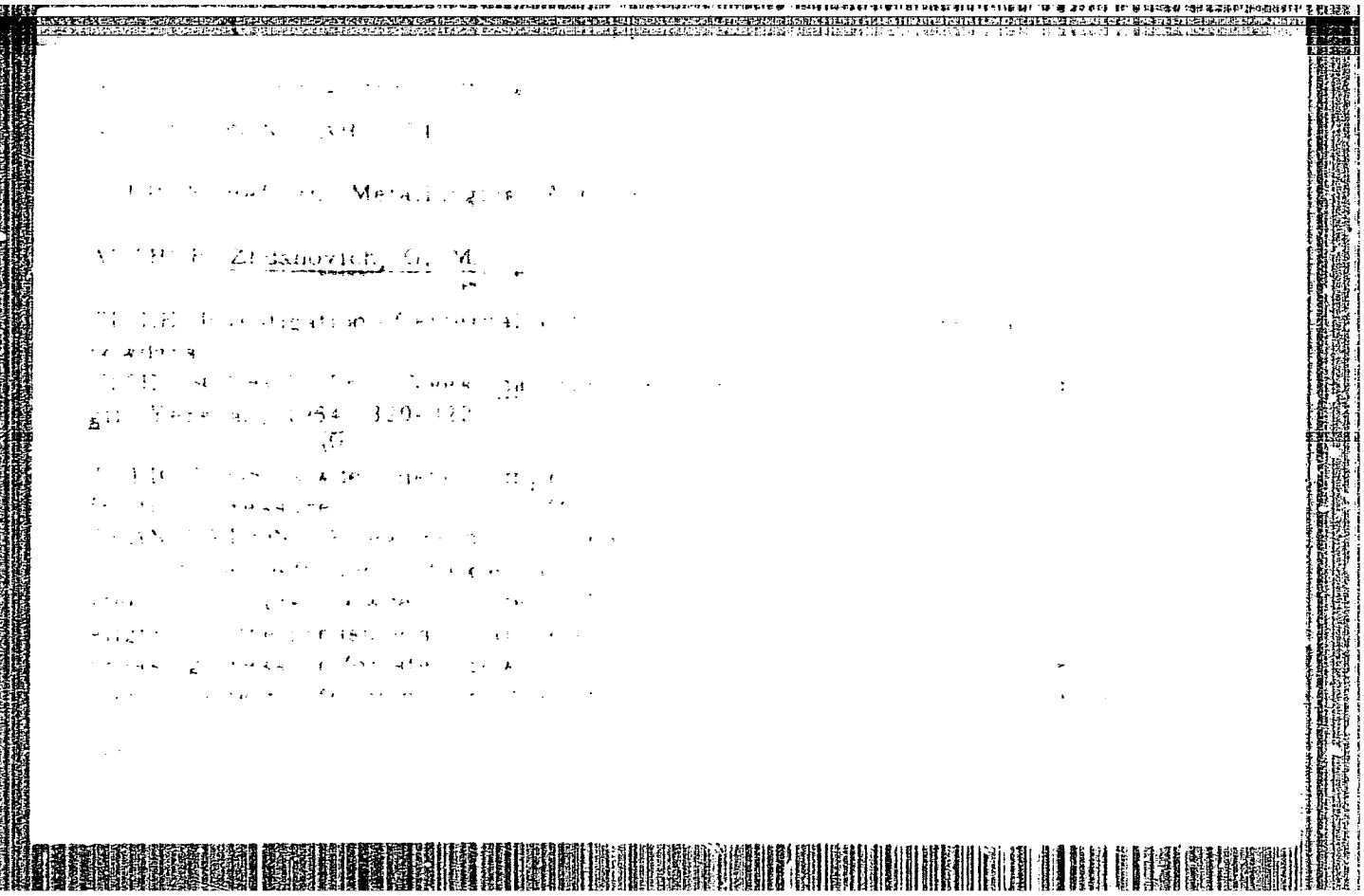
from the formation of elastic forces in the briquette which are directed from the center toward the periphery, and this force difference increases with the compacting pressure. S. Solonin

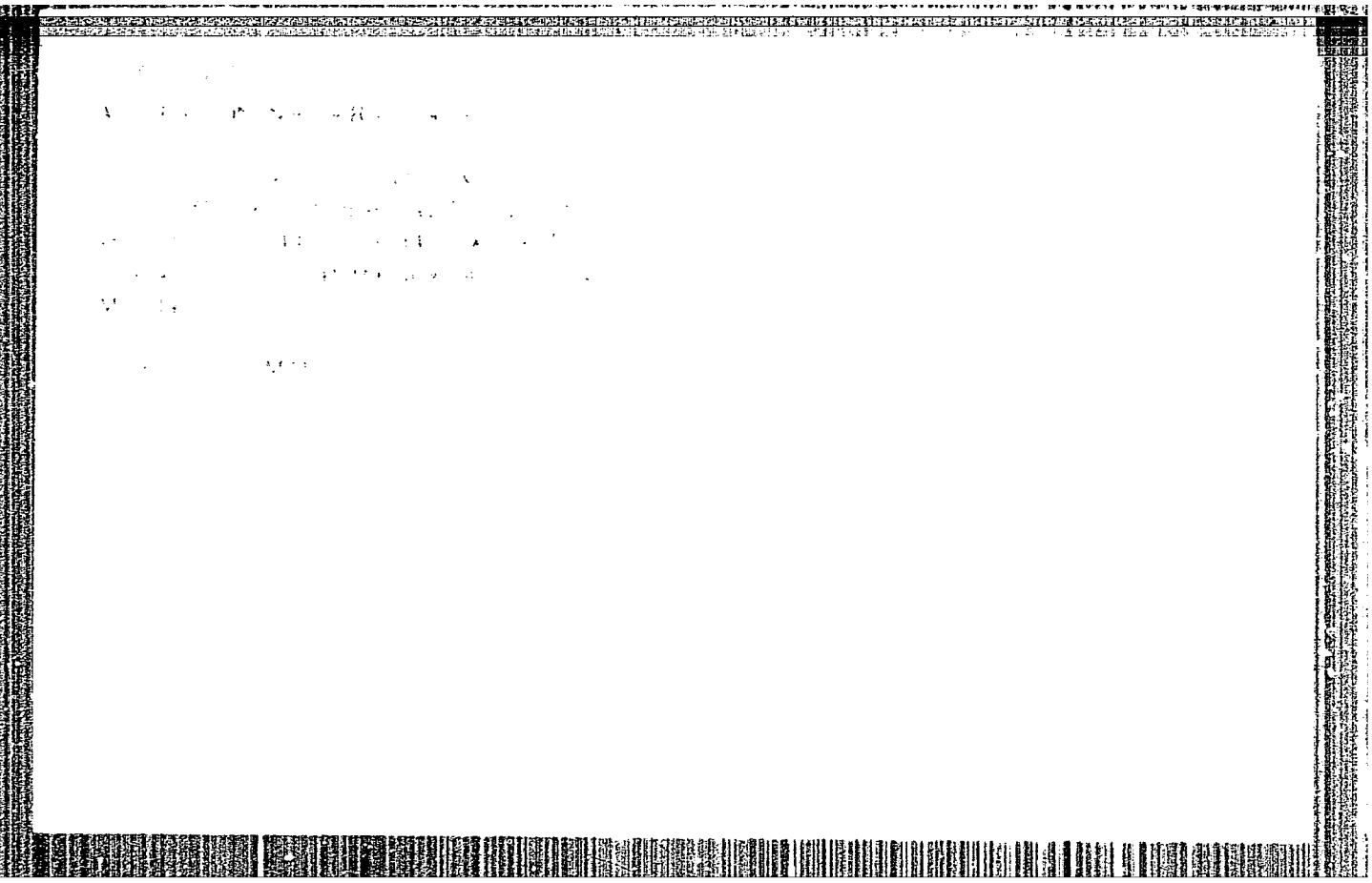
SUB CODE: MM ENCL: 00

Card 2/2

ZHDANOVICH, G. M.

Cand Tec Sci, Diss -- "Certain problems in the theory of the process of pressing metallic powders and their mixtures". Minsk, 1961. 18 pp, 22 cm (Dept of Tec Sci, Acad Sci BSSR), 250 copies, Not for sale (KL, No 9, 1961, p 182, No 24338). /61-51123/





ZHDANOVICH, Gennadiy Mikhaylovich; TREYEYER, V.N., doktor tekhn. nauk, prof., retsenzent; STREL'CHENYA, I.P., red.; KONCHITS, Ye.P., tekhn. red.

[Theory of the pressing of metal powders and their mixtures] Nekotorye voprosy teorii protsessa pressovaniia metallicheskikh poroshkov i ikh smesei. Minsk, Redaktsionno-izdatel'skii otdel BPI im. I.V.Stalina, 1960. 97 p. (MIRA 15:9)

1. Chlen-korrespondent Akademii nauk BSSR (for Treyeyer).
(Powder metallurgy)

ZHDANOVICH, G.V.

Overall mechanization of pipeline construction. Stroi. i dor. mash. 9 no.4:3-7 Ap '64. (MIRA 18:1)

1. Nachal'nik Upravleniya mekhanizatsii stroitel'stva Gosudarstvennogo proizvodstvennogo Komiteta po gazovoy promyshlennosti SSSR.

ZHDANOVICH, G.V.

New machines used in construction of petroleum enterprises. Stroi. pred.neft.prom.1 no.2:3-7 Ap '56. (MLRA 9:9)
(Petroleum industry--Equipment and supplies)

ZHDANOVICH, G.V., inzhener.

Digging trenches and snow removal from them. Strel. pred. neft. prom. 2 no.3:16-18 Mr '57. (MIRA 10:4)
(Gas, Natural--Pipelines)

ZHDANOVICH, G.V., inzh.

Construction of the Central Asian line is increasing in tempo.
Stroi. truboprov. 7 no.4:1-3 Ap '62. (MIRA 15:5)
(Soviet Central Asia--Gas, Natural--Pipelines)

ZHDANOVICH, G.V.

Over-all mechanization of pipeline construction. Stroi. pred. neft. prom. 3 no.5:9-12 My '58. (MIRA 11:7)

1. Nachal'nik Upravleniya mekhanizatsii rabot Glavgaza SSSR.
(Pipelines)

ZHDANOVICH, G.V., inzh.

Unavoidable changes in the organizational structure. Stroi. truboprov. 6 no.3:4-6 Mr '61. (MIRA 14:3)

1. Upravleniye mekhanizatsii rabot Glavgaza SSSR.
(Pipelines)

NIKITIN, K., podpolkovnik; ZHDANOVICH, L., kapitan.

Discharging ponton sections over steep banks. Voen.-inzh. zhur. 101 no.10:44-46 O '57. (MLRA 10:11)

(Pontoons)

ZHDANOVICH, Matruna, matsi-gerainya

Our country gave us happiness. Rab.i sial. 33 no.12:10-11 D '57.
(MIRA 10:12)

(Borisov--Social conditions) (Repatriation)

MATOV, Viktor Ivanovich; NIKOLAYEV, Oleg Aleksandrovich; ZHDANOVICH, Nikolay Semenovich; FETISOV, Aleksandr Vasil'yevich; SOL'NIKOV, N.Ya., red.; BORUNOV, N.I., tekhn. red.

[Digital computer for school use] Uchebnaia tsifrovaia vychislitel'naia mashina. Moskva, Gosenergoizdat, 1963. 127 p. (Biblioteka po avtomatike, no.84) (MIRA 16:12)
(Electronic digital computers)

VOL'FSON, A.A.; ZHDANOVICH, N.S.; SUBASHIYEV, V.K.

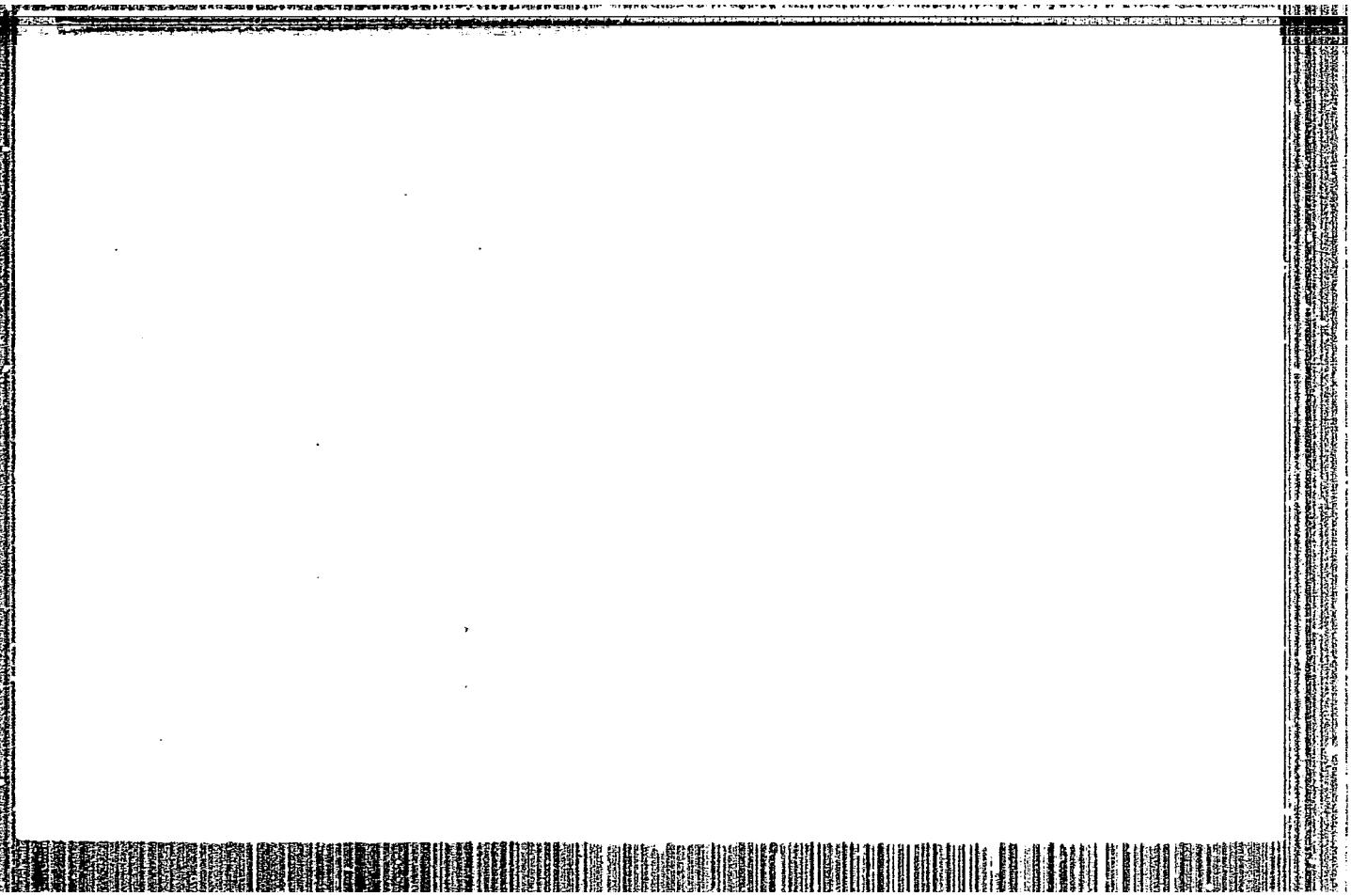
Quantum yield of the photoconductive effect in p-silicon doped with boron. Fiz. tver. tela 6 no.12:3732-3734 D '64 (MIRA 18:2)

1. Institut poluprovodnikov, AN SSSR, Leningrad.

ZHDANOVICH, N.S.; KONOPLEVA, R.F.; RIVKIN, S.M.

Annealing of defects formed in n-type germanium by γ-rays. Fiz. tver. tela 2 no.10:2356-2358 '60. (MIRA 13:12)

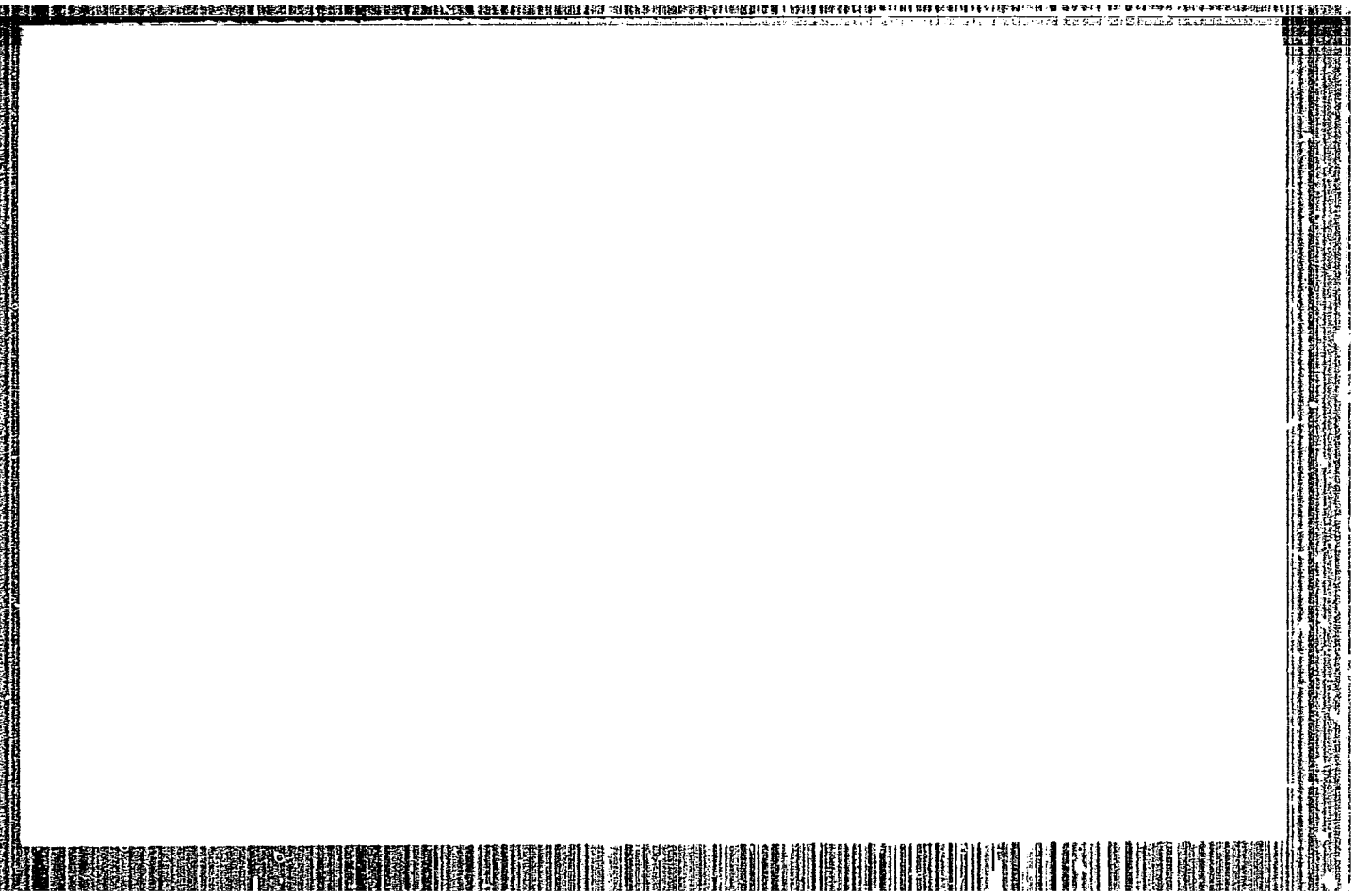
1. Fiziko-tekhnicheskiy institut AN SSSR, Leningrad.
(Gamma rays) (Germanium)
(Semiconductors, Effect of radiation on)



APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630002-8"

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630002-8"

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630002-8"

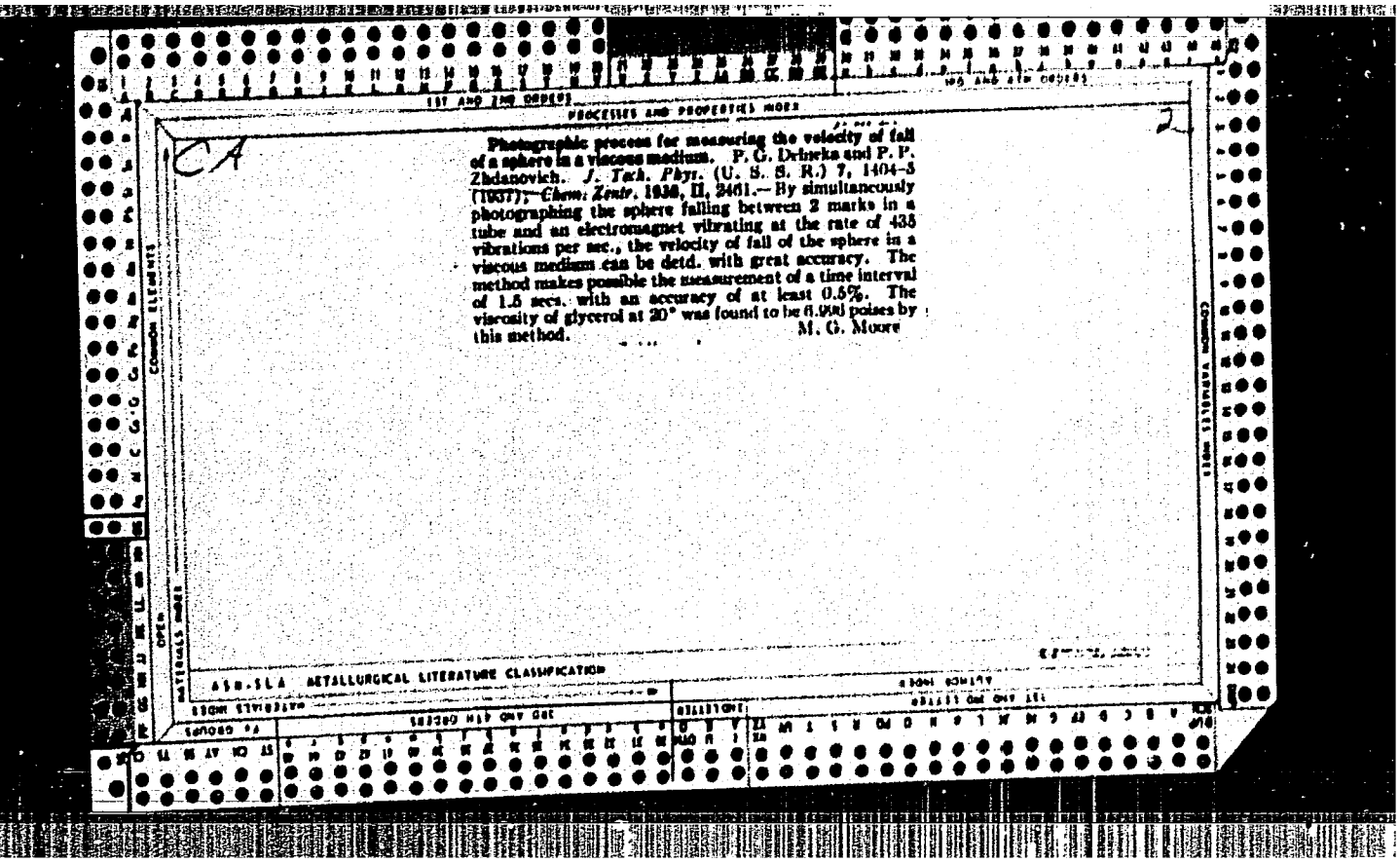


APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630002-8"

MINLIBAYEV, K.S.; ZHDANOVICH, P.F.

Hero's bridgade works here. Transp. stroi. 15 no.2 35-36 F '65. (MIRA 18:3)

1. Nachal'nik otdela truda i zarabotnoy platy tresta Zapsibtransstroy (for Minlibayev). 2. Instruktor Novosibirskoy NIS (for Zhdanovich).



CA

Photographic process for measuring the velocity of fall of a sphere in a viscous medium. P. G. Drineka and P. P. Zhdanovich. *J. Tech. Phys.* (U. S. S. R.) 7, 1404–5 (1937); *Chem. Zentr.* 1938, II, 2461.—By simultaneously photographing the sphere falling between 2 marks in a tube and an electromagnet vibrating at the rate of 435 vibrations per sec., the velocity of fall of the sphere in a viscous medium can be detd. with great accuracy. The method makes possible the measurement of a time interval of 1.5 secs. with an accuracy of at least 0.5%. The viscosity of glycerol at 20° was found to be 6.988 poises by this method.

M. G. Moore

ROZENFEL'D, Shmul Leybovich. Prinimal uchastiye ZHDANOVICH, V.E., KUZNETSOV, P.V., red.; GERASIMOVA, Ye.S., tekhn.red.

[Expansion and distribution of the building materials industry of the U.S.S.R.] Razvitie i razmeshchenie promyshlennosti stroitel'nykh materialov SSSR. Moskva, Gosplanizdat, 1960. 180 p. (MIRA 13:5)

(Building materials industry)

Characteristics of Belorussian agriculture based on the data of the rail and water transportation Mensk, Vyd. N.K.Z. Belarusi, 1926. 38, 75 p. 50 maps. (Pratsy S.-h. sektsyi Instytutu belaruskai kul'tury, Sshytak 1) (53-53115)

ZHDANOVICH, V.F.

Factorization of a linear differential expression. Usp. mat. nauk 16 no.4:155-159 Jl-Ag '61. (MIRA 14:8)
(Differential equations, Linear)

05705
SOV/39-49-3-1/7

AUTHOR: 16.3500 Zhdanovich, V.F. (Minsk)

TITLE: Solution of Non-self-adjoint Mixed Problems for Hyperbolic Systems in the Plane by Means of the Fourier Method III

PERIODICAL: Matematicheskiy sbornik, 1959, Vol 49, Nr 3, pp 233-266 (USSR)

ABSTRACT: The publication is a direct continuation of the contributions [Ref 5,6,7] of the author. There he considered for the closer hyperbolic system

$$(1)\quad \frac{\partial u(x,t)}{\partial t} = A(x)\frac{\partial u(x,t)}{\partial x} + B(x)u(x,t)$$

in the sense of I.G. Petrovskiy the mixed problem

$$(2)\quad M\frac{\partial u(0,t)}{\partial t} + Nu(0,t) + P\frac{\partial u(1,t)}{\partial t} + Qu(1,t) = 0$$

$$(3)\quad u(x,0) = f(x)$$

and by separation of the variables he obtained a formal solution represented by a series

Card 1/3

Solution of Non-self-adjoint Mixed Problems for Hyperbolic Systems in the Plane by Means of the Fourier Method III

$$(5)\quad \sum_{s=-\infty}^{\infty} Y_{nk_s}^{(s)}(x)\, e^{I_s t}\, a_s \,.$$

§ 1. A function defined on $\Omega = [0 \le x \le 1 ;\ 0 \le t \le T]$ is said to belong to the Banach space $M_2(\Omega)$, if for all $t \in [0,T]$ the function $\zeta(t) = \|f(x,t)\|^2_{D_2(0,1)} = \int_0^1 \|f(\xi,t)\|^2 d\xi +$

$+ \|Mf(0,t) + P\, f(1,t)\|^2$ is defined and continuous. Let

$$(6)\quad \|f(x,t)\|^2_{M_2(\Omega)} = \max_{0\le t\le T} \left\{ \int_0^1 \|f(\xi,t)\|^2 d\xi + \|Mf(0,t) + Pf(1,t)\|^2 \right\}$$

(see notations and definitions of [Ref 5,6,7]).

Card 2/3

Solution of Non-self-adjoint Mixed Problems for Hyperbolic Systems in the Plane by Means of the Fourier Method III

05705
SOV/39-49-3-1/7

Theorem 1 : If the boundary conditions (2) are regular [Ref 6] and if $f(x) \in D_2(0,1)$, then (5) converges for a certain grouping of terms (as in theorem 6 of [Ref 6]) according to the norm of $M_2(\Omega)$.

§ 2 gives sufficient conditions for the existence of a classical solution.

In § 3 the author shows : Theorem 5 : If (2) are regular and if $f(x) \in D_2(0,1)$, then the sum of (5) is a generalized solution of (1), (2), (3).

Altogether the author gives five theorems, nine lemmata and numerous conclusions.

The results overlap with the results of M.L. Rasulov [Ref 7,8]. The author mentions S.L.Sobolev and A.D.Myshkis.

There are 8 references, 7 of which are Soviet, and 1 English.

SUBMITTED: May 20, 1957

Card 3/3

TROSHENSKIY, S.P.; ZHDANOVICH, V.F., inzh., retsenzent; GULYAKHKIN, K.N., inzh., red.

[Calculating the precision of machining on machine tools] Raschety tochnosti obrabotki na metallorezhushchikh stankakh. Moskva, Izd-vo "Mashinostroenie," 1964. 202 p. (MIRA 17:7)

NEMIROVSKIY, I.A.; NEYSHTADT, D.M.; SEDOKOV, L.M., kand. tekhn. nauk; IL'IN, Yu.M.; ZHDANOVICH, V.F., inzh., retsenzent; KUZNETSOV, Yu.I., inzh., retsenzent; KOSILOVA, A.G., kand. tekhn. nauk, red.

[Increasing the productivity of heavy-duty machine tools] Povyshenie proizvoditel'nosti krupnykh metallorezhushchikh stankov. [By] I.A.Nemirovskii i dr. Moskva, Mashinostroenie, 1965. 201 p. (MIRA 18:5)

ZHDANOVICH, V.F.

Substantiating the Fourier method for generalized systems of telegrapher's equations. Uch. zap. BGU no.51:17-63 '59.
(MIRA 14:1)

(Differential equations, Partial)

ZHDANOVICH, V.F.

Formulas for the zeros of Dirichlet polynomials and quasipolynomials. Dokl. AN SSSR 135 no.5:1046-1049 D '60. (MIRA 13:12)

1. Predstavleno akademikom I.G.Petrovskim.
(Polynomials)

ZHDANOVICH, V. F.

Transactions of the 3rd All-Union Mathematical Congress, Moscow, Jun-Jul '56, Trudy, '56, v. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow 1956, 237 pp.

pp. 61-63 Myshkis, A. D. (Minsk), Abolinya, V. E. (Riga), Zhdanovich, V. F. (Minsk), Kostyukovich, Ye. Kh. (Minsk), Lepin, A. Ye. (Minsk), Kharitonenko, P. I., (Minsk) and Shlopak, A. S. (Moscow). "Mixed Problem for Linear Hyperbolic Systems in a Plane,"

16(1)
AUTHOR: Zhdanovich, V.F. (Minsk) SOV/39-47-3-3/4

TITLE: The Solution of Non-Self-Adjoint Problems for Hyperbolic Systems in the Plane With the Aid of the Fourier Method I (Resheniye metodom Fur'ye nesamosopryazhennykh smeshannykh zadach dlya giperbolicheskikh sistem na ploskosti I.)

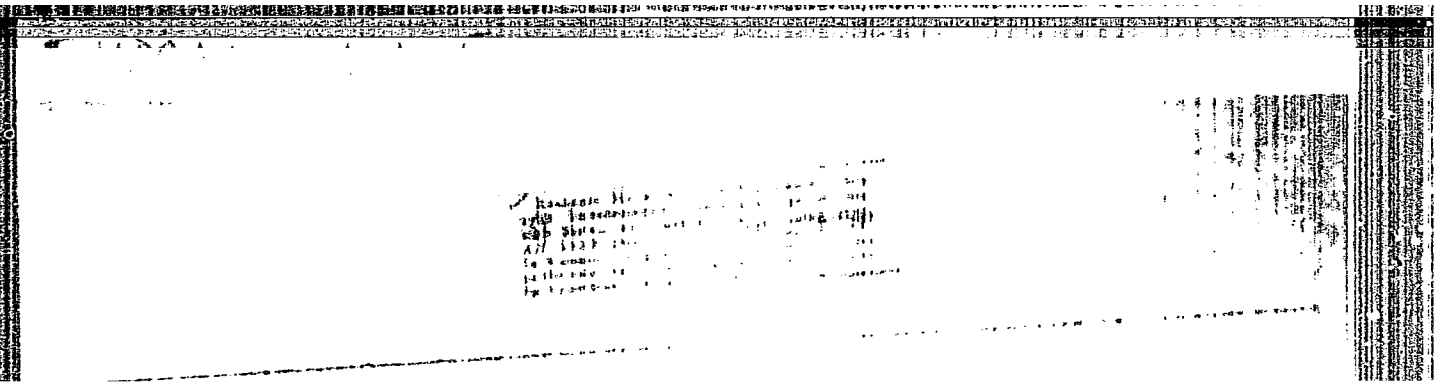
PERIODICAL: Matematicheskiy sbornik,1959,Vol 47,Nr 3,pp 307-354 (USSR)

ABSTRACT: On the basis of the papers of M.V. Keldysh, M.A. Naymark,A.D. Myshkis, N.A. Brazm, O.A. Ladyzhenskaya, and S.L. Sobolev the author gives a theoretical basis for the application of the Fourier method to the solution of boundary value problems for $\frac{\partial u}{\partial t} = A(x) \frac{\partial u}{\partial x} + B(x)u$. The main results have been already announced in /Ref 12/ and partially in /Ref 13/. There are 13 references, 11 of which are Soviet, and 2 American.

SUBMITTED: May 20, 1957

Card 1/1

ZHDANOVICH, V. F.: Master Phys-Math Sci (diss) -- "Solution using the Fourier method for non-selfconjugate mixed problems for hyperbolic systems on a plane". Minsk, 1959. 10 pp (Beloruss State U im V. I. Lenin), 150 copies (KL, No 10, 1959, 122)



APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630002-8"

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630002-8"

16(1)

AUTHOR: Zhdanovich, V.F. (Minsk) SOV/39-48-4-3/4

TITLE: The Solution of Non-Selfadjoint Mixed Problems for Hyperbolic Systems in the Plane With the Aid of the Fourier Method.II

PERIODICAL: Matematicheskiy sbornik, 1959, Vol 48, Nr 4, pp.447-498 (USSR)

ABSTRACT: The present paper is a direct continuation of [Ref 8]. The author investigates the linear differential operator

$$Ly(x) = A(x)y'(x)+B(x)y(x)$$

with the region of definition Θ_0 consisting of the functions $y(x) \in C^{(1)}(0,1)$ which satisfy the boundary condition

$$hy \equiv MA(0)y'(0)+\left[MB(0)+N\right]y(0)+PA(1)y'(1)+\left[PB(1)+Q\right]y(1) = 0.$$

The matrices A(x), B(x), M, N, P satisfy all assumptions of [Ref 8]. § 1 gives asymptotic developments for the fundamental matrix $Y(x, \lambda)$ $(0 \leq x \leq 1)$ of the system $A(x)y'(x)+B(x)y(x) = \lambda y(x)$ for $\lambda \to \infty$. In § 2 the asymptotic distribution of the eigenvalues of L is considered for $\lambda \to \infty$. In § 3 the existence of the Green's function of the operator $L-\lambda E$ is proved; it is shown that it is uniformly bounded with respect to the norm and a development for it is given. § 4 uses these results for the

Card 1/2

The Solution of Non-Selfadjoint Mixed Problems for Hyperbolic Systems in the Plane With the Aid of the Fourier Method.II SOV/39-48-4-3/4

investigation of the convergence of the development of the initial function f(x) from the condition (3) of part I of the present paper [Ref 8]. It is proved that under certain assumptions the system of eigenfunctions and adjoint functions of L in a certain space is complete and closed. There are 10 theorems, 13 lemmas, and several conclusions.
There are 8 references, 6 of which are Soviet, 1 German, and 1 American.

SUBMITTED: May 20, 1957

Card 2/2

ZHDANOVICH, V.F.

Using the Fourier method for solving non-selfconjugate mixed problems for hyperbolic systems on a plane. Dokl. AN SSSR 114 no.5:934-937 Je '57. (MLRA 10:9)

1. Belorusskiy gosudarstvennyy universitet im. V.I. Lenina. Predstavleno akademikom I.G. Petrovskim.
(Functional analysis)

S/020/60/135/006/004/037
C 111/ C 333

16.3500

AUTHOR: Zhdanovich, V. F.

TITLE: Asymptotic Expansions of the Eigen Values of a Boundary Value Problem With Parameter

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 6, pp. 1318-1321

TEXT: The author considers the eigen value problem

(1) $y'(x) + B(x)\, y(x) = \lambda \Lambda(x)\, y(x)$

(2) $M\left(\frac{1}{\lambda}\right) y(0) + N\left(\frac{1}{\lambda}\right) y(1) = 0$.

The matrix $B(x)$, $0 \leqq x \leqq 1$, has complex elements vanishing on the diagonal; $\Lambda(x)$, $0 \leqq x \leqq 1$, is a real diagonal matrix with $\nu_i(x)$, $i = 1,2,\ldots, r$ as the elements of the diagonal. The two matrices are m-times ($m \geq 1$) continuously differentiable on $[0,1]$.

$M(z) = \sum_{k=0}^{p_0} M_k z^k$ and $N(z) = \sum_{k=0}^{p_1} N_k z^k$ are polynomials with matrix coefficients; λ is a complex parameter.

Card 1/5

S/020/60/135/006/004/037
C 111/ C 333

Asymptotic Expansions of the Eigen Values of a Boundary Value Problem With Parameter

Theorem1 states, under the assumption : $\nu_i \neq \nu_j$ for $i \neq j$ for all $x \in [0,1]$ and $|\lambda| > R > 0$, that (1) possesses a fundamental matrix

$$(3)\ Y(x,\lambda) = \left[E + \frac{\phi E}{\lambda} + \frac{\phi^2 E}{\lambda^2} + \ldots + \frac{\phi^{m-1} E}{\lambda^{m-1}} + \frac{H(x,\lambda)}{\lambda^m}\right] \cdot$$

$$\cdot \exp\left[\lambda \int_0^x \Lambda(\xi)\, d\xi\right]$$

where E is the unit matrix, ϕ a certain linear operator and $H(x,\lambda)$ a certain matrix analytic in λ and bounded in the norm.

Theorem 2: Let the assumptions of theorem 1 be satisfied $\Lambda(x)(0 \leqq x \leqq 1)$ be positive, for the boundary condition (2) let

(7) $\det M_0 \neq 0$, $\det N_0 \neq 0$

be satisfied. Then for the eigen values $\lambda_n (n = \pm 1,2,\ldots)$

Card 2/5

Asymptotic Expansions of the Eigen Values of a Boundary Value Problem With Parameter

of (1), (2) it holds the representation

$$(8)\quad \lambda_n = \frac{2\pi n i}{\alpha_o - \alpha_p} + \varphi_o(n) + \frac{\varphi_1(n)}{n} + \ldots + \frac{\varphi_{m-1}(n)}{n^{m-1}} + \frac{\psi_m(n)}{n^m}$$

$$(n = \pm 1, \ldots)$$

Here $\varphi_s(n)$ $(s = 0,1,\ldots, m-1)$, $\psi_m(n)$ are complex-valued bounded functions of n, where

$$\varphi_s(n) = h_s\left(\exp\left[\frac{2\pi(\alpha_1 - \alpha_p)\, n i}{\alpha_o - \alpha_p}\right], \ldots, \exp\left[\frac{2\pi(\alpha_{p-1} - \alpha_p) n i}{\alpha_o - \alpha_p}\right]\right.$$

where $h_s(\zeta_1, \zeta_2, \ldots, \zeta_{p-1})$ are piecewise analytic on the torus surface $(e^{it_1}, e^{it_2}, \ldots, e^{it_{p-1}})$ $(0 \leq t_j < 2\pi,\ j = 1,2,\ldots,p-1)$

Moreover $\varphi_s(n)$ are the Taylor coefficients of the series expansion

Card 3/5

S/020/60/135/006/004/037
C 111/ C 333

Asymptotic Expansions of the Eigen Values of a Boundary Value Problem With Parameter

of $w = w(z)$ in $z = 0$, where $w(z)$ satisfies the equation

$$\sum_{k=0}^{m-1} \left(\frac{z}{\frac{2\pi i}{\alpha_o - \alpha_p} + z\, w(z)} \right)^k \left[a_o^{(k)} \exp \left[\alpha_o w(z) \right] + \right.$$

$$(9) \quad + \sum_{s=1}^{p-1} a_s^{(k)} \exp \left[\frac{2\pi n (\alpha_s - \alpha_p) i}{\alpha_o - \alpha_p} \right] \exp \left[\alpha_s w(z) \right] +$$

$$\left. + a_p^{(k)} \exp \left[\alpha_p w(z) \right] \right] = 0 .$$

The α_i, a_k are defined by the representation

$$(5) \quad \Delta(\lambda) = \sum_{s=0}^{p} a_s \left(\frac{1}{\lambda} \right) \exp \left[\alpha_s \lambda \right]$$

Card 4/5

87390

S/020/60/135/006/004/037
C 111/ C 333

Asymptotic Expansions of the Eigen Values of a Boundary Value Problem With Parameter

of the determinant $\Delta(\lambda) \equiv \det \left[M\left(\frac{1}{\lambda}\right) Y(0,\lambda) + N\left(\frac{1}{\lambda}\right) Y(1,\lambda) \right]$ and by

$$(6)\quad a_s\left(\frac{1}{\lambda}\right) = \sum_{j=0}^{m-1} \frac{a_s^{(j)}}{\lambda^j} + \frac{a_s^{(m)}(1/\lambda)}{\lambda^m} ,$$

where $\left|a_s^{(m)}\left(\frac{1}{\lambda}\right)\right| < \frac{M_2}{(1-R/|\lambda|)^r}$, M_2 = const.

The theorems refer to the case where $(\det M_o)(\det N_o) = 0$.

The author mentions Ya. D. Tamarkin.

There are 5 references: 4 Soviet and 1 German.

PRESENTED: June 28, 1960, by J. G. Petrovskiy, Academician

SUBMITTED: June 27, 1960

Card 5/5

ZHDANOVICH, V.F. (Minsk)

Solution of nonselfconjugate mixed problems for hyperbolic systems on a plane by the Fourier method. Part 1. Mat. sbor. 47 no.3:307-354 Mr '59. (MIRA 12:3)
(Differential equations, Partial)

20-5-5/60

AUTHOR ZHDANOVICH, V.F.

TITLE Solution by the Fourier-method of nonself-adjoint Mixed Problems for Hyperbolic systems on a Plane. (Resheniya metodom Fur'ye nesamosopryazhennykh smeshannykh zadach dlya giperbolicheskikh sistem na ploskosti,- Russian.)

PERIODICAL Doklady Akademii Nauk SSSR 1957, Vol 114, Nr 5, pp 934-937 (USSR)

ABSTRACT The author here solves a mixed problem for the system (1) which is hyperbolic in the more restricted sense:

$(\partial/\partial t)u(x,t) = A(x)\ (\partial/\partial x)u(x,t) + B(x)(x,t)$

$(0 \leqslant x \leqslant 1,\ 0 \leqslant t \leqslant T + \infty)$, with the following boundary- and initial conditions (2a) and (2b) respectively

$M(\partial/\partial t)u(0,t) + Nu(0,t) + P(\partial/\partial t)u(1,t) + Qu(1,t) = 0;$

$u(x,0) = f(x)$. Here $u(x,t)$ is an n-dimensional vector function with complex coordinates. Some further conditions for the matrices $A(x)$, $B(x)$, M,N, P,Q are given. For the boundary problem (1), (2a) the author puts $u(x,t) = y(x)e^{\lambda t}$. For the determination of $y(x)$ $(0 \leqslant x \leqslant 1)$ and λ the system (4)

CARD 1/2

Solution by the Fourier-method of nonself-adjoint Mixed Problems for Hyperbolic Systems on a Plane.

$$A(x)y'(x)+B(x)y(x) = \lambda y(x);\ (M\lambda+ N)y(0)+(P\lambda+ Q)y(1) = 0.$$

is obtained.
Six theorems are then given for this system; the first is as follows: If the boundary conditions are regular, the problem (4) has an enumeratable mass of eigen values which are all located in the strip $-\gamma<\mathrm{Re}\ \lambda<\gamma<+\infty$.
The necessary definitions given for this theorem are also given in this paper.
(No Illustrations)

ASSOCIATION: White Russian State University "V.I. LENIN".
(Belorusskiy gosudarstvennyy universitet im. V.I. Lenina." Russian)
PRESENTED BY: I.G. PETROVSKIY, member of the Academy, 10.12.1956
SUBMITTED: 6.11. 1956
AVAILABLE: Library of Congress

ZHDANOVICH, Witol'd [Zdanowicz, Witold]

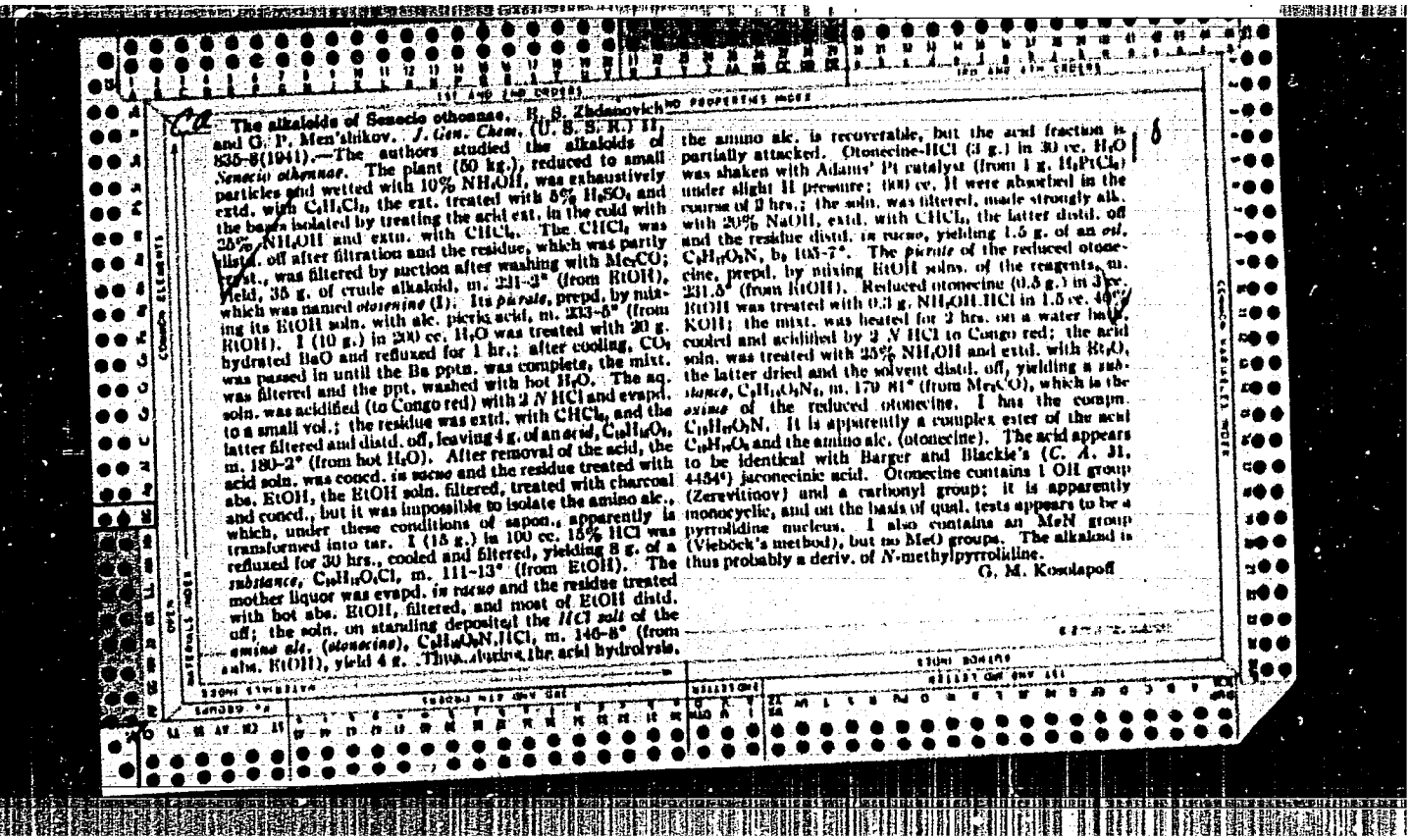
Magnetic resistance of cadmium arsenide in a temperature interval 1.6 — 300 K. Acta physica Pol 26 no.5:663-673 My '64.

1. Department of Physics, Technical University, Warsaw.

ZHDANOVICH, Ya.A.

Role of the department of infectious diseases in the reduction of gastrointestinal diseases. Zdrav. Bel. 9 no.8:51-52 Ag '63 (MIRA 17:3)

1. Iz kabineta infektsionnykh zabolevaniy poliklinik No.1 goroda Bobruyska.



Ca

The alkaloids of Senecio othonnae. B. S. Zhdanovich and G. P. Men'shikov. *J. Gen. Chem.* (U. S. S. R.) 11, 835–8(1941).—The authors studied the alkaloids of *Senecio othonnae*. The plant (50 kg.), reduced to small particles and wetted with 10% NH_4OH, was exhaustively extd. with $C_6H_5Cl_2$, the ext. treated with 5% H_2SO_4 and the bases isolated by treating the acid ext. in the cold with 25% NH_4OH and extn. with $CHCl_3$. The $CHCl_3$ was distd. off after filtration and the residue, which was partly crystd., was filtered by suction after washing with Me_2CO; yield, 35 g. of crude alkaloid, m. 231–3° (from EtOH), which was named *otosenine* (I). Its *picrate*, prepd. by mixing its EtOH soln. with alc. picric acid, m. 233–5° (from EtOH). I (10 g.) in 200 cc. H_2O was treated with 20 g. hydrated BaO and refluxed for 1 hr.; after cooling, CO_2 was passed in until the Ba pptn. was complete, the mixt. was filtered and the ppt. washed with hot H_2O. The aq. soln. was acidified (to Congo red) with 2 *N* HCl and evapd. to a small vol.; the residue was extd. with $CHCl_3$, and the latter filtered and distd. off, leaving 4 g. of an *acid*, $C_{10}H_{16}O_4$, m. 180–2° (from hot H_2O). After removal of the acid, the acid soln. was concd. *in vacuo* and the residue treated with abs. EtOH, the EtOH soln. filtered, treated with charcoal and concd., but it was impossible to isolate the amino alc., which, under these conditions of sapon., apparently is transformed into tar. I (15 g.) in 100 cc. 15% HCl was refluxed for 30 hrs., cooled and filtered, yielding 8 g. of a *substance*, $C_{20}H_{32}O_6Cl_2$, m. 111–13° (from EtOH). The mother liquor was evapd. *in vacuo* and the residue treated with hot abs. EtOH, filtered, and most of EtOH distd. off; the soln. on standing deposited the *HCl salt* of the *amino alc.* (*otosecine*), $C_{11}H_{21}O_3N.HCl$, m. 146–8° (from abs. EtOH), yield 4 g. Thus, during the acid hydrolysis, the amino alc. is recoverable, but the acid fraction is partially attacked. Otosecine-HCl (3 g.) in 30 cc. H_2O was shaken with Adams' Pt catalyst (from 1 g. H_2PtCl_6) under slight H pressure; 600 cc. H were absorbed in the course of 2 hrs.; the soln. was filtered, made strongly alk. with 20% NaOH, extd. with $CHCl_3$, the latter distd. off and the residue distd. *in vacuo*, yielding 1.5 g. of an *oil*, $C_{11}H_{23}O_3N$, b. 185–7°. The *picrate* of the reduced otosecine, prepd. by mixing EtOH solns. of the reagents, m. 231.5° (from EtOH). Reduced otosecine (0.5 g.) in 3 cc. EtOH was treated with 0.3 g. $NH_2OH.HCl$ in 1.5 cc. 40% KOH; the mixt. was heated for 2 hrs. on a water bath, cooled and acidified by 2 *N* HCl to Congo red; the acid soln. was treated with 25% NH_4OH and extd. with Et_2O, the latter dried and the solvent distd. off, yielding a *substance*, $C_{11}H_{22}O_3N_2$, m. 179–81° (from Me_2CO), which is the *oxime* of the reduced otosecine. I has the compn. $C_{11}H_{19}O_3N$. It is apparently a complex ester of the acid $C_6H_{10}O_4$ and the amino alc. (otosecine). The acid appears to be identical with Barger and Blackie's (*C. A.* 31, 4454°) jaconecinic acid. Otosecine contains 1 OH group (Zerevitinov) and a carbonyl group; it is apparently monocyclic, and on the basis of qual. tests appears to be a pyrrolidine nucleus. I also contains an MeN group (Viebŏck's method), but no MeO groups. The alkaloid is thus probably a deriv. of *N*-methylpyrrolidine.

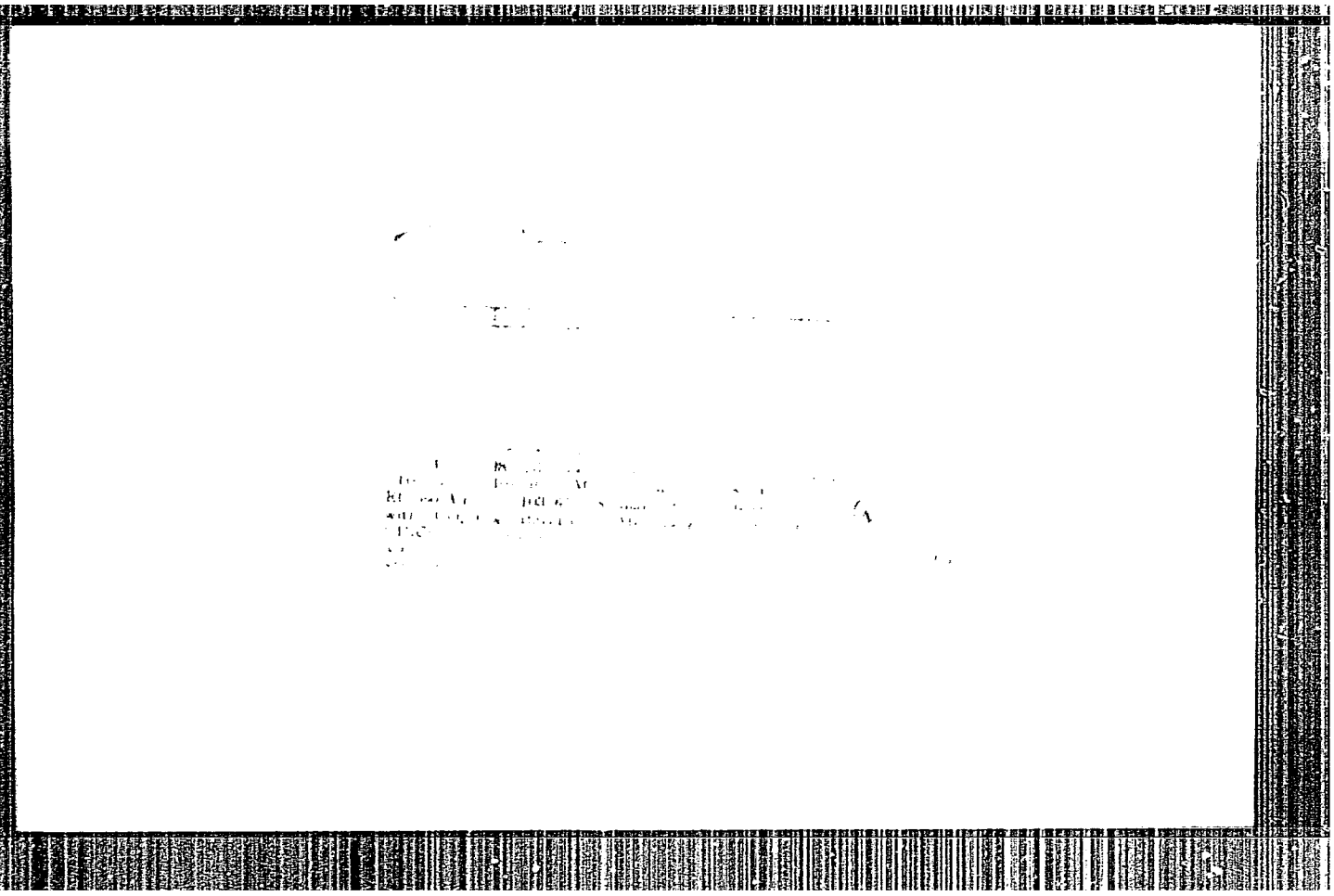
G. M. Kosolapoff

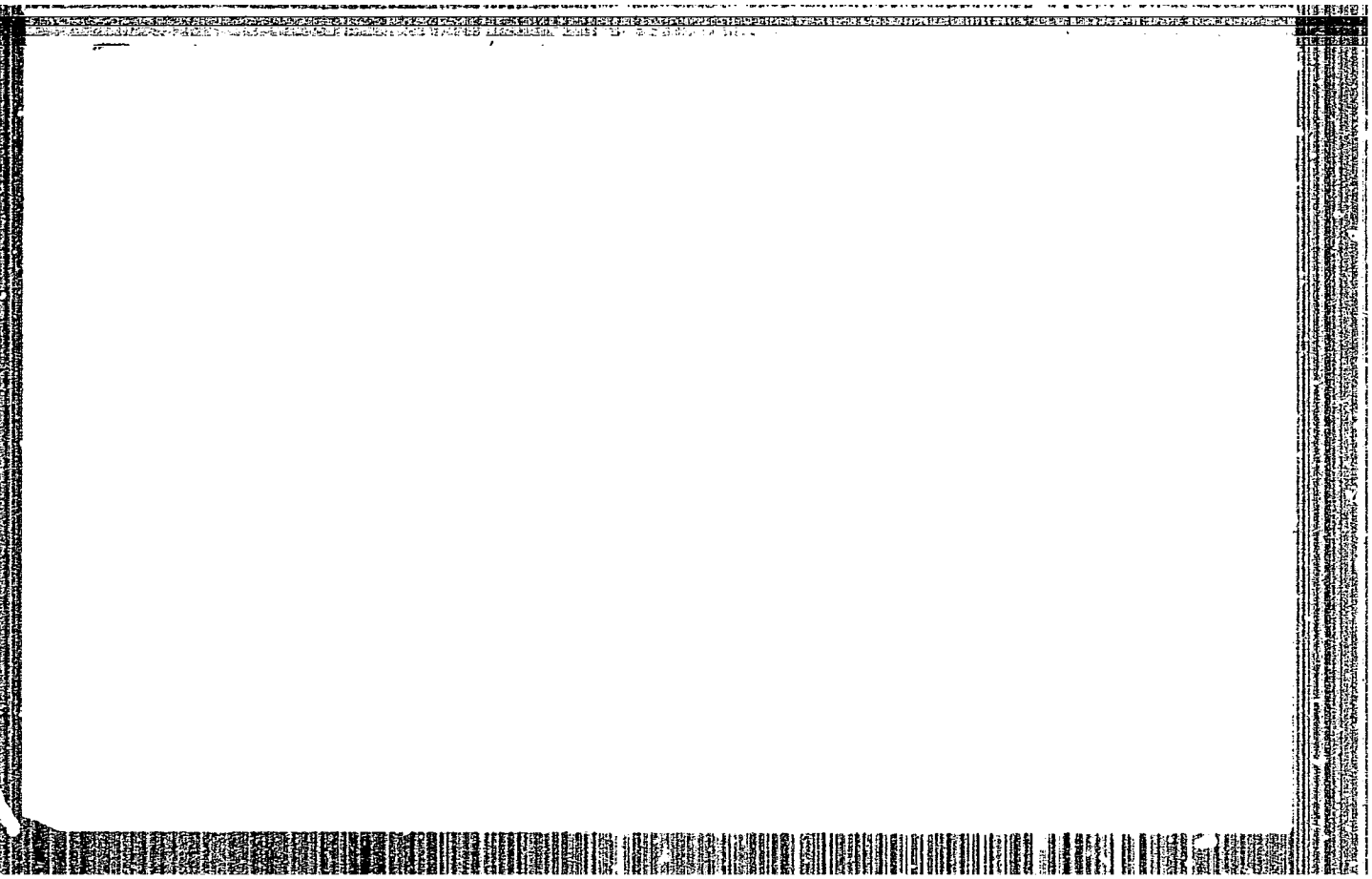
ZHDANOVICH, Y. S.

"Synthesis of N-Derivatives of Anabasine," Zhur. Obshch. Khim., 15, Nos. 1-2, 1945,

Mbr., Alkaloid Dept., Sci. Res. Chemico-Pharmaceutical Inst. im Ordzhonikidze,

Moscow, -1944-.



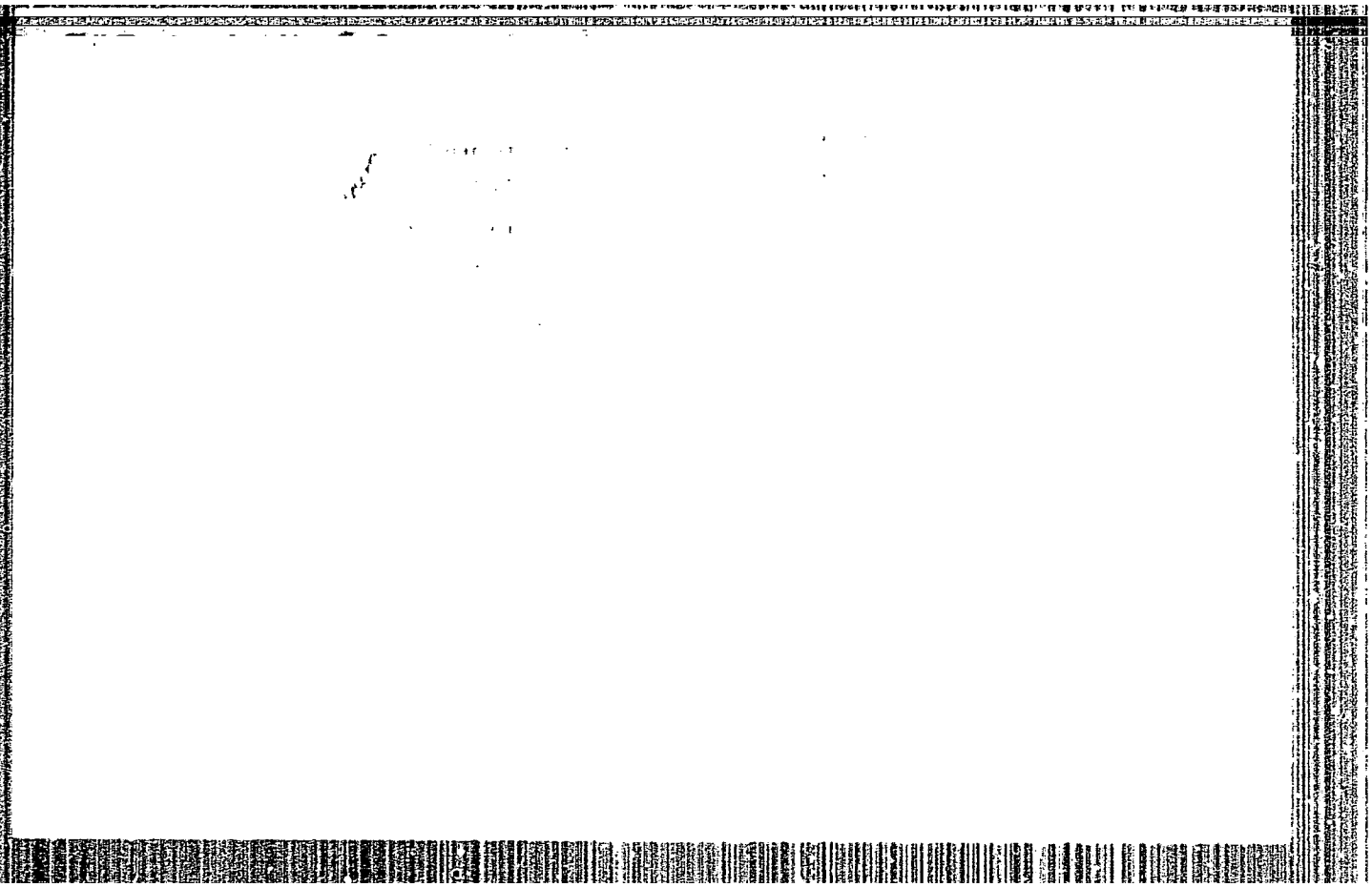


APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630002-8"

RUNTSOV, I.A.; BALYAKINA, M.V.; GRYZLOVA, L.G.; ZHDANOVICH, Ye.S.; PREOBRAZHENSKIY, N.A.

Oxidation of diacetone-*l*-sorbose by sodium hypochlorite into diacetone-2-keto-*l*-gulonic acid. Trudy VNIVI 5:17-21 '54. (MLRA 9:3)

1. Sinteticheskaya laboratoriya.
(GULONIC ACID) (SORBOSE)



APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630002-8"

ZHDANOVICH, Ye.S.; BYALAYA, Ye.I.; PREOBRAZHENSKIY, N.A.

Synthesis of pantothenic acid. Trudy VNIVI 6:14-17 '59.
(MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut. Sinteticheskaya laboratoriya.
(PATOTHENIC ACID)

LISNYANSKIY, I.M.; ZHDANOVICH, Ye.S.

Obtaining benzenesulfoxymethylene-β-ethoxypropionitrile. Trudy VNIVI 6:20-21 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut, Sinteticheskaya laboratoriya.
(PROPIONITRILE)

LISNYANSKIY, I.M.; ZHDANOVICH, Ye.S.

Catalytic method of obtaining acetonitrile. Trudy VNIVI 6:23-27 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut. Sinteticheskaya laboratoriya.
(ACETONITRILE)

RUBTSOV, I.A.; BALYAKINA, M.V.; ZHDANOVICH, Ye.S.

Obtaining 4-methyl-5-β-oxyethylthiazole. Trudy VNIVI 6:27-28 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut, Sinteticheskaya laboratoriya.
(THIAZOLE)

LISNYANSKIY, I.M.; ZHDANOVICH, Ye.S.

Method for the synthesis of 4-methyl-5-β-oxyethylthiazole.
Trudy VNIVI 6:28-30 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
Sinteticheskaya laboratoriya.
(THIAZOLE)

ZHDANOVICH, Ye.S.; GALKIN, A.F.; CHEKMAREVA, I.B.; BAULINA, G.A.; PREOBRAZHENSKIY, N.A.

Production of pyridinecarboxylic acid. Trudy VNIVI 8:11 '61. (MIRA 14:9)

1. Laboratoriya sinteza vitaminov gruppy B Vsesoyuznogo nauchno-issledovatel'skogo vitaminnogo instituta.
(Pyridinecarboxylic acid)

BALYAKINA, M.V.; ZHDANOVICH, Ye.S.; LUK'YANOVA, P.V.; PREOBRAZHENSKIY, N.A.

Study of pyridoxine hydrochloride. Trudy VNIVI 8:12 '61.
(MIRA 14:9)

(Pyridoxine)

ZHDANOVICH, Ye.S.; CHEKMAREVA, I.B.; NOVOPOKROVSKAYA, T.S.; LISNYANSKIY, I.M.; PREOBRAZHENSKIY, N.A.

Production of the amide of nicotinic acid (through esters). Trudy VNIVI 8:22 '61. (MIRA 14:9)

1. Laboratoriya sinteza vitaminov gruppy B Vsesoyuznogo nauchno-issledovatel'skogo vitaminnogo instituta.
(Amides) (Esterification) (Nicotinic acid)

ZEDANOVICH, Ye.S.; BYALAYA, Ye.I.; PREOBRAZHENSKIY, N.A.

Synthetic studies on coenzyme A. Part 1: Synthesis of β-aminopropionic acid, β-alanine. Zhur. ob. khim. 31 no. 2:446-447 F '61. (MIRA 14:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Alanine)

BALYAKINA, M.V.; ZHDANOVICH, Ye.S.; PREOBRAZHENSKIY, N.A.

Synthetic studies in the field of B_6-group vitamins. Part 1: Synthesis of 2-methyl-3-hydroxy-4-methoxymethyl-5- hydroxymethyl-pyridine. Zhur. ob. khim. 31 no. 2:542-544 F '61. (MIRA 14:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Pyridine) (Pyridoxine)

BALYAKINA, M.V.; ZHDANOVICH, Ye.S.; PREOBRAZHENSKIY, N.A.

Synthetic studies in the field of vitamins B_6. Part 2: Synthesis of 2-methyl-3-hydroxy-4-aminomethyl-5-hydroxymethylpyridine. Zhur.ob.khim. 31 no.9:2983-2984 S '61. (MIRA 14:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Pyridoxime) (Pyridine)

ZHDANOVICH, Ye.S.; CHEKMAREVA, I.B.; PREOBRAZHENSKIY, N.A.

Preparation of nitrile and amide of nicotonic acid. Zhur.ob. khim. 31 no.10:3272-3274 O '61. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Nicotinamide) (Nicotinonitrile)

ZHDANOVICH, Ye.S.; CHEKMAREVA, I.B.; BAULINA, G.A.; KAPLINA, L.I.

Improved method for producing nicodin. Med. prom. 16 no.3:25 Mr '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(NICOTINIC ACID)

BALYAKINA, M.V.; ZHDANOVICH, Ye.S.; ZEMSKOVA, A.G.; PREOBRAZHENSKIY, N.A.

Synthetic research in the field of vitamins of the group B6. Part 3: Synthesis of pyridoxine derivatives containing residues of higher aliphatic acids. Zhur.ob.khim. 32 no.4:1172-1175 Ap '62. (MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut. (Pyridoxol)

CHEKMAREVA, I.B.; ZHDANOVICH, Ye.S.; NOVOPOKROVSKAYA, T.S.; PREOBRAZHENSKIY, N.A.

Preparation of β-pyridinecarboxylic acid (nicotinic) amide. Zhur.prikl.khim. 35 no.5:1157-1159 My '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Nicotinamide)

GOLYSHEVA, M.G.; ZHDANOVICH, Ye.S.; LIBER, L.I.

Preparation of flavine-adenine dinucleotide by a microbiological method using an Eremothecium ashbyii culture. Vop. med. khim. 9 no.4:371-373 Jl-Ag '63 (MIRA 17:4)

1. Mikrobiologicheskaya laboratoriya Vsesoyuznogo nauchno-issledovatel'skogo vitaminnogo instituta, Moskva.

CHEKMAREVA, I.B.; ZHDANOVICH, Ye.S.; REZNIK, A.I.; PREOBRAZHENSKIY, N.A.

Preparation of quinolinic and nicotinic acids. Zhur.prikl.khim. 38 no.3:707-708 Mr '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut. Submitted June 10, 1963.

CHEKMAREVA, I.B.; ZHDANOVICH, Yo.S.; PREOBRAZHENSKIY, N.A.

Catalytic hydration method for the preparation of nicotinamide from nicotinonitrile. Zhur. prikl. khim. 38 no. 10:2387-2388 O '65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut. Submitted April 15, 1964.

CHEKMAREVA, I.B.; ZHDANOVICH, Ye.S.; LUSHCHIK, T.A.; PREOBRAZHENSKIY, N.A.

Separation of nicotinamide by the ion-exchange method. Zhur.org. khim. 1 no.2:375-379 F '65. (MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

CHERKASOVA, I.B.; ZHLAKOVICH, Ya.S.; PREOBRAZHENSKIY, N.A.

Production of β-pyridinecarboxylic (nicotinic) acid. Zhur. prikl. khim. 38 no.1:220-221 Ja '65. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

"Issledovaniya v oblasti sinteza piridoksina i koenzima.A."

report submitted for 35th Intl Cong, Industrial Chemistry, Warsaw, 15-19 Sep 64.

Vsesoyuznyy nauchno-issledovatel'skiy institut, Moscow.

ZHDANOVICH, Ye.S.; CHEKMAREVA, I.B.; NOVOPOKROVSKAYA, T.S.; PREOBRAZHENSKIY, N.A.

Preparation of β-pyridinecarboxylic (nicotinic) acid amide. Zhur.ob.khim. 32 no.9:2828-2829 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Nicotinamide)

KUZNETSOV, V.D.; SAVITSKIY, K.V.; SUKHARINA, M.N.; ZHDANOVA, V.N.; TOPOROV, G.V.; SAVITSKIY, A.P.

Effect of temperature variations and the speed of deformation on properties of steels with a varying dispersivity of carbide inclusions. Issl. po zharopr. splav. 6:56-63 '60. (MIRA 13:9)
(Steel--Hardening) (Metals, Effect of temperature on)

TEBYAKINA, A.Ye.; RABINOVICH, M.S.; ZHDANOVICH, Yu.V.; STRUKOV, I.T.; KONDRAT'YEVA, A.P.; BUYANOVSKAYA, I.S.; SHNEYERSON, A.N.; GRAGINSKAYA, P.S.; DRUZHININA, Ye.N.

Alpha-aminobenzylpenicillin (ampicillin) and its microbiological studies. Antibiotiki 9 no.5:388-392 My '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

KORTUNOV, Aleksey Kirillovich; ZHDANOVICH, Georgiy Vyacheslavovich; GORODETSKIY, Vladimir Ivanovich; ZASKO, Feodosiy Afanas'yevich; KLIMUSHIN, Aleksandr Mikhaylovich; SOLGANIK, G.Ya., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Gas pipeline in Canada; construction and exploitation] Gazovaia magistral' Kanady; stroitel'stvo i ekspluatatsiia. Pod red. A.K. Kortunova. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 258 p. (MIRA 13:5)
(Canada--Gas, Natural--Pipelines)