KAKHRAMANOV, T.

Workshops are supplied with the new machinery. Prom.koop. 13 no.3:35 Mr '59. (MIRA 12:4)

1. Predsedatel' pravleniya arteli invalidov "Poligrafist," Baku. (Baku--Vocational rehabilitation)

GUSEYNOV, D.M.; KAKHRAMANOV, Yu.K.

Effect of a petroleum derivative growth substance on root growth and yield in winter wheat. Dokl. AN Azerb. SSR 17 no. 2:131-135 '61.
(MIRA 14:4)

1. Institut pochvovedeniya i agrokhimii AN Azerbaydzhanskoy SSR.
(Wheat) (Growth promoting substances)

ACCESSION NR: AP4009106 S/0056/63/045/006/1858/1864

AUTHORS: Danelyan, L. S.; Yefimov, B. V.; Sotnikov, S. K; Kakhramanov-Dzhazairov, V.

TITLE: Intensities of the Gamma transitions to the ground rotational band in neutron resonances of the reaction Gd^{155} (n, γ) Gd^{156}

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 45, no. 6, 1963, 1858-1864

TOPIC TAGS: gadolinium 155, gadolinium 156, gamma transition, ground rotation band, neutron resonance, neutron capture by gadolinium, resonance intensity distribution, Porter Thomas distribution

ABSTRACT: The purpose of the work was to find the variation of the partial radiation width for the 8.44-MeV transition in Gd^{156} following neutron capture at different neutron resonances. This transition was chosen because it can be readily separated from other tran-

Card 1/2

ACCESSION NR: AP4009106

sitions. A crystal scintillation spectrometer was used to measure the relative intensities of the γ transitions to the ground rotational band for 20 resonances in the $Gd^{155}(n,\gamma)Gd^{156}$ reaction. At the measurement accuracy attained in these experiments, the resonance intensity distribution is compatible with a Porter-Thomas distribution with one channel. The possibility remains, however, that there are two groups of such distributions with different mean intensities. The apparatus was based on coincidence circuitry and in addition to separating the 8.44-MeV γ's it can also measure the γ-ray background at other energies. It is reported that the apparatus is being improved and the measurement of the relative intensities of the 8.44 MeV transition will be continued. "The idea of this measurement was suggested to us by L. V. Groshev and A. M. Demidov to whom we are grateful. We also thank M. I. Pevzner for a truthful discussion of the results and V. A. Kochetkov and A. Ya. Lunin for much work performed." Orig. art. has: 4 figures, 2 formulas, and 1 table.

Card 2/2

KAMBAROV, Yu.G.; KAKHRAMANOVA, A.T.; MEKHTIYEV, S.D.

Thermodynamic calculation of n-octane pyrolysis under pressure.
Azerb. khim. zhur. no.3:111-118 '64. (MIRA 18:5)

KAKHRIMANOV, I.

Hydroelectric power station builders in Daghestan are pleased.
Obshchestv.pit. no.10:31 O '60. (MIRA 13:11)

1. Inspektor Ministerstva torgovli Dagestanskoy ASSR, g.Makhachkala.
(Daghestan--Restaurants, lunchrooms, etc.)

KAKHRIMANOV, I.

A commission of the executive committee helps to improve commerce. Sov.torg. 33 no.2:59 F '60. (MIRA 13:5)

1. Inspektor Ministerstva torgovli Dagestanskoy ASSR. (Kaspiysk--Retail trade)

MIROSHNICHENKO, A.; KAKHRIMANOV, I. (g.Makhachkala); PILIPENKO, A. TYURIKOV, V. (g.Kazan'); SUVOROV, N. (pos.Pervomaysk)

Letters to the editor. Obshchestv. pit. no.7:40-41 Jl '61. (MIRA 14:8)

1. Kladovshchik stolovoy No.23 Pervogo tresta stolovykh i restoranov g. Sverdlovska (for Miroshnichenko). 2. Zamestitel' direktora restorana "Sport", g. Kiyev (for Pilipenko).

(Restaurants, lunchrooms, etc.)

FRANKFURT, A.I., prof.; KAKHTSAZOVA, I.A.

Condition of the kidneys in rheumatic fever. Vrach.delo no.10:130-131 O '60. (MIRA 13:11)

1. Kafedra propedevtiki vnutrennikh bolezney (zav. - prof. A.I. Franfurt) Vitebskogo meditsinskogo instituta.
(RHEUMATIC FEVER)
(KIDNEYS)

KAHU, M.

BELOZJOROVA, A.; DANILOV, V.; HANIKAT, E.; KAHU, M.; MAIOROVA, T. [Mayorova, T.]; SOKOLOV, A.; SUROV, A.[Shurov, A.]; TIHAMD, H.; TUISK, A.; URB, E.; VEERSALU, E.; TIMAKOV, S.; JUHANI, I., red.; EINBERG, K., tekhn. red.

[Achievements of Soviet Estonia in 20 years; statistical survey] Noukogude Eesti saavutusi 20 aasta jooksul; statistiline kogumik. Tallinn, Eesti riiklik kirjastus, 1960. 173 p. (MIRA 15:5)

1. Estonian S.S.R. Statistika Keskvalitsus. 2. Sotrudniki Statisticheskogo upravleniya Soveta Ministrov Estonskoy S.S.R. (for all except Juhani, Einberg). 3. Direktor Statisticheskogo upravleniya Soveta Ministrov Estonskoy S.S.R. (for Timakov).
(Estonia--Economic conditions)

LIYGANT, M. [Liigant, M.] (Tartu); KAKHUSK, R. [Kahusk, R.] (Tartu)

Tracking camera for the observation of artificial earth satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.29:25-29 '62. (MIRA 16:2)

1. Tartuskiy gosudarstvennyy universitet.
(Artificial satellites—Tracking)
(Astronomical photography—Equipment and supplies)

KAKHUSK, R. [Kahusk, R.]; EELSALU, Kh. [Eelsalu, H.]

Photographic observations of RS Ophiuchi. Per.zvezdy 13 no.6:436-437 '61. (MIRA 16:9)

1. Tartuskaya astronomicheskaya observatoriya.
(Stars, Variable)

KAKIASHVILI, D.S.

Electrocardiographic and ballistocradographic changes in the aged. Soob. AN Gruz. SSR 25 no. 3:371-378 S '60. (MIRA 14:1)

1. Sukhumskaya gorodskaya bol'nitsa. Predstavleno chelnom-korrespondentom Akademii Gruzinskoy SSR K.P. Chikovani.
(Electrocardiography) (Ballistocardiography)
(Aged)

KAKIASHVILI, D.S.

Some biochemical data from an examination of aged persons. Soob. An Gruz. SSR 25 no. 4:417-424 O '60. (MIRA 14:1)

1. Sukhumskaya gorodskaya bol'nitsa. Predstavleno chlenom-korrespondentom Akademii K.P. Chikovani.
(Aged)

KAKIASHVILI, D.S.; SIMAVONYAN, V.G.

Material from an X-ray examination of the heart in aged persons. Soob.AN Gruz.SSR 26 no.2:241-248 '61. (MIRA 14:4)

1. Sukhumskaya gorodskaya bol'nitsa. Predstavleno chlenom-korrespondentom Akademii K.P.Chikovani [deceased].
(HEART--RADIOGRAPHY)

KAKIASHVILI, D.S.; TESLYA, T.A.

Systolic noises in elderly people. Soob. AN Gruz. SSR 27 no.1: 107-112 Jl '61. (MIRA 16:8)

1. Sukhumskaya gorodskaya bol'nitsa. Predstavleno chlenom-korrespondentom AN GruzSSR K.P.Chikovani [deceased].
(HEART--SOUNDS) (AGING)

KAKIASHVILI, D.S.

Duration of heart tones in elderly persons. Soob. AN Gruz. SSR 27 no.5:635-641 N '61. (MIRA 15:1)

1. Sukhumskaya gorodskaya bol'nitsa. Predstavleno chlenom-korrespondentom AN Gruzinskoy SSR [redacted] [deceased].
(Heart--Sounds)

KAKIASHVILI, D.S.

Arterial oscillogram of the aged. Soob. AN Gruz. SSR 36 no.1: 233-240 O '64. (MIRA 18:3)

1. Sukhumskaya gorodskaya bol'nitsa imeni Shervashidze. Submitted April 9, 1964.

KAKIASHVILI, D.S.

Electrocardiographic study of very old people of Abkhazia.
Soob. AN Gruz. SSR 34 no.3:719-726 Je '64 (MIRA 18:1)

1. Sukhumskaya gorodskaya bol'nitsa. Submitted November 5, 1963.

KAKIASHVILI, D.S.

Roentgenological picture of the form and size of the heart at advanced age. Soob. AN Gruz. SSR 39 no.2:481-486 Ag '65. (MIRA 18:9)

1. Sukhumskaya gorodskaya bol'nitsa. Submitted August 20, 1964.

KAKIASHVILI, D.S., kand. med. nauk

State of the cardiovascular system in the senile population of Abkhazia. Trudy LIETIN no.16:197-207 '64.
(MIRA 19:1)

KAKICHEV, D.

"Experience with the operation of tires with an inserted protector," Automobile, 1951.

KUZNETSOV, F.; KAKICHEV, D.; VAL'KO, L.; BARANNIKOV, Yu.

Achievements of outstanking drivers. Avt.transp. 33 no.12:33 D '55. (MLRA 9:3)

(Automobile drivers)

KAKICHEV, D.

Analyzing the results of passenger traffic plan. Avt. transp. 36 no. 7:30-31 and 34 Jl '58. (MIRA 11:8)

1. Starshiy ekonomist Nal'chikskogo passazhirskogo avtokhozyaystva.
(Transportation, Automotive)

46(1)

AUTHOR: Kakichev, V.A.

SOV/140-59-2-8/30

TITLE: The Integral of Schwarz and the Formulas of Hilbert for Analytic Functions of Several Complex Variables (Integral Shvartsa i formuly Gil'berta dlya analiticheskikh funktsiy mnogikh kompleksnykh peremennykh)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 2, pp 80-93 (USSR)

ABSTRACT: Let $f(z_1, z_2)$ be analytic in the bicylinder $C_2(0,R)$ with the origin in zero and with the radii $R_k > \varrho_k$ $(k = 1,2)$. Let $u(\varrho,\sigma)$ be the real part and $v(\varrho,\sigma)$ be the imaginary part of f, let β_{00} be the constant term of the Fourier development of v, let $\tau_k = \varrho_k e^{i\sigma_k}$ be the boundary points of the cylinder. Then

$$f(z_1, z_2) = i\beta_{00} + \frac{1}{8\pi^2}\int_0^{2\pi}\int_0^{2\pi} u(\varrho,\sigma)\left[T_2(z,\tau) - 2\right] d\sigma_1 d\sigma_2,$$

$$T_n(z,\tau) = \prod_{m=1}^{n}\left(\frac{\tau_m + z_m}{\tau_m - z_m} + 1\right).$$

Card 1/2

The Integral of Schwarz and the Formulas of Hilbert for Analytic Functions of Several Complex Variables SOV/140-59-2-8/30

In a similar manner also the formula of Hilbert

$$u(e^{i\alpha}) = c + \frac{1}{2\pi}\int_0^{2\pi} v(e^{i\varphi}) \operatorname{ctg}\frac{\varphi-\alpha}{2}\, d\varphi$$

is generalized to functions of several variables, but the generalized formula is very long (1 page). Some possibilities of application of the generalized formulas are mentioned. There are 2 Soviet references.

ASSOCIATION: Shakhtinskiy pedagogicheskiy institut (Shakhty Pedagogical Institute)

SUBMITTED: March 27, 1958

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S/044/60/000/007/006/058
C111/C222

16.3000

AUTHOR: Kakichev, V.A.

TITLE: Boundary properties of the integral of Cauchy type of several variables

PERIODICAL: Referativnyy zhurnal. Matematika, no.7, 1960, 72-73. Abstract no.7518. Uch.zap.Shakhtinsk.gos.ped.in-t, 1959, 2, no.6, 25-90

TEXT: The author investigates boundary properties of an integral of Cauchy type of several variables for polycylindrical regions the boundary skeletons of which are topological products of simple closed smooth curves. On the skeleton Δ, the function $\varphi(t) = \varphi(t_1, t_2, \ldots, t_n)$ satisfies the Hölder condition ($\varphi(t) \in H(\alpha_1, \alpha_2, \ldots, \alpha_n)$) if for two arbitrary points $t = (t_1, t_2, \ldots, t_n)$ and $\tau = (\tau_1, \tau_2, \ldots, \tau_n)$ of the skeleton Δ it holds the inequality:

$$|\varphi(t) - \varphi(\tau)| \leq \sum_{k=1}^{n} A_k |t_k - \tau_k|^{\alpha_k}, \quad 0 < \alpha_k \leq 1, \quad k = 1, 2, \ldots, n.$$

The author considers the integral of Cauchy type

Card 1/3

Boundary properties...

$$\phi(z_1,\ldots,z_n) = \frac{1}{(2\pi i)^n}\int_{\Delta}\frac{f(\tau_1,\tau_2,\ldots,\tau_n)}{\prod_{k=1}^{n}(\tau_k - z_k)}\,d\tau_1 d\tau_2\cdots d\tau_n; \qquad (1)$$

if $z = (z_1,\ldots,z_n) \in \Delta$ then the notion of the principal value of the singular integral (1) is introduced. It is proved that if $f(\tau)\in H(\alpha_1,..,\alpha_n)$ then there exists the principal value of this singular integral. The author derives 2^n formulas which generalize the well-known formulas of Sokhotskiy to the case of n variables. Furthermore, the author obtains the following theorem: If the density $f(\tau)$ of the integral (1) satisfies the Hölder condition $H(\alpha_1,\ldots,\alpha_n)$ on the skeleton Δ then the boundary values of the integral on the skeleton Δ satisfy the condition $H(\alpha_1-\varepsilon,\ldots,\alpha_n-\varepsilon)$, where $\varepsilon>0$ is arbitrarily small. If $\alpha_k<1$, k=1,..,n, then in the last theorem the condition $H(\alpha_1-\varepsilon,\ldots,\alpha_n-\varepsilon)$ can probably be replaced by the condition $H(\alpha_1,\ldots,\alpha_n)$; according to the author's assertion he not jet succeeded in proving it. The well-known formula of

Card 2/2

Boundary properties...

Poincaré-Bertrand for the exchange of singular integrals of the type (1) is extended for the case of n variables. In the case n = 2 the obtained formula has the form:

$$\int_{\Delta} \frac{d\sigma_1 d\sigma_2}{(\sigma_1-t_1)(\sigma_2-t_2)} \int_{\Delta} \frac{\varphi(\sigma_1,\sigma_2,\tau_1,\tau_2)d\tau_1 d\tau_2}{(\tau_1-\sigma_1)(\tau_2-\sigma_2)} = \pi^4 \varphi(t_1,t_2,t_1,t_2) -$$

$$-\pi^2\left[\int_{D_1^*} d\tau_1 \int_{D_1^*} \frac{\varphi(\sigma_1,t_2,\tau_1,t_2)d\sigma_1}{(\sigma_1-t_1)(\tau_1-\sigma_1)} + \int_{D_2^*} d\tau_2 \int_{D_2^*} \frac{\varphi(t_1,\sigma_2,t_1,\tau_2)d\sigma_2}{(\sigma_2-t_2)(\tau_2-\sigma_2)}\right] +$$

$$+\int_{\Delta} d\tau_1 d\tau_2 \int_{\Delta} \frac{\varphi(\sigma_1,\sigma_2,\tau_1,\tau_2)d\sigma_1 d\sigma_2}{\prod_{k=1}^{2}(\sigma_k-t_k)(\tau_k-\sigma_k)},$$

where Δ is the skeleton of the boundary of the region $D = D_1 \times D_2$; D_k^* is the boundary of the region D_k, k=1,2.

Finally the author gives conditions for the analytic continuability of a continuous function given on the skeleton of the boundary of a poly-cylindrical region. There are misprints.

Card 3/3

~~16(1)~~ 16.3000, 16.4500

68143

AUTHOR: Kakichev, V.A.

SOV/20-129-6-6/69

TITLE: Cauchy Type Integral for a Topological Product of Two-dimensional Analytic Surfaces

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 6, pp 1218-1221 (USSR)

ABSTRACT: A.A. Temlyakov [Ref 1] investigated the properties of an integral over a simple smooth closed curve which lies on a two-dimensional analytic surface of a space of n ($n \geq 2$) complex variables. The author continues this idea and constructs an integral of the Cauchy type, for which the integration is carried out over the topological product of the curves L_j ($j = 1, \ldots, p$; $1 \leq p \leq n$) which lie on the two-dimensional analytic surfaces D_j of the space of n ($n \geq 2$) complex variables. He defines certain singular Cauchy integrals and he shows that under certain assumptions the formula of Sokhotskiy and the formula of Poincaré-Bertrand are valid for them. Altogether the author gives 4 theorems and a great number of notations and definitions.

~~Card 1/2~~

Shakhtinsk Pedagogical Inst

KAKICHEV, V. A., Cand Phys-Math Sci -- (diss) "Boundary properties of Cauchy-type integral of many complex variables and some of its applications." Rostov-na-Don, 1960. 7 pp; (Rostov-na-Don State Univ); 150 copies; price not given; bibliography at end of text (13 entries); (KL, 18-60, 146)

KAKICHEV, V.A.

Riemann boundary value problem for a two-dimensional analytic surface. Uch. zap. MOPI 96:127-144 '60. (MIRA 16:7)

(Differential equations, Partial)
(Boundary value problems)

KAKICHEV, V.A.

Character of the continuity of the boundary values of the Martinelli-Bochner integral. Uch. zap. MGPI 96:145-150 '60.
(MIRA 16:7)

(Differential equations, Partial)
(Boundary value problems)
(Integrals)

KAKICHEV, V.A.

Cauchy integral on analytic surfaces in the space of multiple complex variables. Uch. zap. MGPI 96:151-156 '60.
(MIRA 16:7)

(Integrals) (Functions, Entire)

KAKICHEV, V.A.

Cauchy transformation of generalized functions. Dokl. AN SSSR 134 no.6:1287-1290 O '60. (MIRA 13:10)

1. Shakhtinskiy pedagogicheskiy institut. Predstavleno akademikom M.A.Lavrent'yevym.
(Transformations (Mathematics))

32732
S/140/61/000/004/003/013
C111/C222

16.4500

AUTHOR: Kakichev, V. A.

TITLE: On some Fredholm equations being solvable in singular Cauchy integrals

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, no. 4, 1961, 25-38

TEXT: In § 1 the author considers Fredholm equations with an independent variable

$$\lambda\varphi + S\tilde{a}\tilde{\varphi} = f \qquad (0.1)$$

where

$$\tilde{\varphi} = S\varphi = \frac{1}{\pi i}\int_{\Gamma}\frac{\varphi(\tau)d\tau}{\tau - t} \qquad (0.2)$$

λ is a complex parameter, $a(t)$ and $f(t)$ are given functions on a simple smooth closed curve Γ, and (0.2) is understood in the sense of the Cauchy principal value.

$\varphi \in H(\Gamma)$ denotes that $\varphi(t)$ satisfies the Hölder condition on Γ

Card 1/6

On some Fredholm equations being ...

$\varphi \in H_k(\Gamma)$ means that $\varphi^{(k)}(t) \in H(\Gamma)$. The class of generalized functions $\varphi(t)$ defined by

$$(\varphi, \psi) = \int_\Gamma \varphi(t)\psi(t)\,dt \qquad (1.4)$$

over the class $H_k(\Gamma)$ $(H(\Gamma))$ is denoted with $H'_k(\Gamma)(H'(\Gamma))$. The integral

$$a(t) \tilde{*} \varphi(t) = \frac{1}{\pi i} \int_\Gamma \left[a(\tau)\varphi(t) + a(t)\varphi(\tau) - a(\tau)\varphi(\tau)\right]\frac{d\tau}{\tau - t}, \qquad (1.8)$$

is denoted as the convolution for the Cauchy transformation.

Theorem 2: If $a(t) \in H(\Gamma)$, $f(t) \in H(\Gamma)$, $a(t) \not\equiv -\lambda$ and $\tilde{f}(t)\left[\lambda + \tilde{a}(t)\right]^{-1}$ bounded on Γ then the equation

$$\lambda\varphi(t) + a(t) \tilde{*} \varphi(t) = f(t) \qquad (1.10)$$

Card 2/6

has a unique solution

$$\varphi(t) = \frac{1}{\pi i}\int_{\Gamma} \frac{\tilde{f}(\tau)}{\lambda + \tilde{a}(\tau)} \frac{d\tau}{\tau - t}, \quad (1.11)$$

in the class $H(\Gamma)$.

Theorem 3: Let $\lambda + \tilde{a}(t)$ have zeros of l_k-th order in $t_k \in \Gamma$, let $a(t)$ and the fundamental functions $\Psi(t)$ be out of the class $H_l(\Gamma)$, where $l = \max\limits_k \{ l_k - 1 \}$; let Γ be l_k times differentiable in the neighborhoods of the t_k. Then the general solution of

$$\lambda\varphi(t) + a(t) \tilde{*} \varphi(t) = 0 \quad (1.12)$$

in the class $H_l^!(\Gamma)$ is given by

Card 3/6

On some Fredholm equations being ...

$$\varphi(t) = \sum_{k} \sum_{p=0}^{l_k-1} \frac{A_{kp}}{(t-t_k)^{p+1}} \qquad (1.14)$$

where A_{kp} are arbitrary constants.

Theorem 4: In order that (1.10) has a solution $\varphi(t) \in H_1(\Gamma)$ under the assumptions of theorem 3, it is necessary and sufficient that f(t) satisfies the conditions

$$\frac{d^p \tilde{f}(t)}{dt^p}\bigg|_{t=t_k} = \frac{1}{\pi i}\int_{\Gamma} \frac{f^{(p)}(\tau)d\tau}{\tau - t_k} = \frac{p!}{\pi i}\int_{\Gamma} \frac{f(\tau)dt}{(\tau-t_k)^{p+1}} = 0, \quad (1.16)$$

$$p=0,1,\ldots,l_k-1$$

Let Γ be a circle around the origin as the center $\alpha = \frac{1}{k}\pi$, $a(t) \in H(\Gamma)$, $f(t) \in H(\Gamma)$. The author considers the equation

$$\varphi(t) + a(te^{i\alpha}) * \varphi(te^{i\alpha}) = f(t) \qquad (1.18)$$

and gives sufficient conditions that (1.18) has a unique solution in $H(\Gamma)$.

Let $a_{pq}(t) \in H(\Gamma)$, $f_p(t) \in H(\Gamma)$ $(p,q = 1,2,\ldots,n)$. Let $\Delta(t)$ be the determinant of

$$\sum_{p=1}^{n} \tilde{a}_{pq}(t)\, \tilde{\varphi}_p(t) = \tilde{f}_q(t), \quad q = 1,2,\ldots,n, \qquad (1.26)$$

and $\Delta(t) \neq 0$ on Γ. Let $\Delta_p(t)$ be the Cramer determinant appearing in the solution of (1.26); $\Delta_p(t)\Delta^{-1}(t) \in H(\Gamma)$ for $p=1,2,\ldots,n$. Then the system

$$\sum_{p=1}^{n} a_{pq}(t) * \varphi_p(t) = f_q(t), \quad q = 1,2,\ldots,n \qquad (1.25)$$

Card 5/6

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C111/C222

On some Fredholm equations being . . .

has a unique solution

$$\varphi_p(t) = \frac{1}{\pi i} \int_{\Gamma} \frac{\Delta_p(\tau)}{\Delta(\tau)} \frac{d\tau}{\tau - t}, \quad p=1,2,\ldots,n \text{ in } H(\Gamma).$$

The obtained results can be extended to corresponding integral equations with several independent variables. In § 2 the same is done for the case of two independent variables.

The author mentions G. Ye. Shilov, Yu. J. Cherskiy, S. Ya. Al'per. He thanks Professor F. D. Gakhov for advices. There are 4 Soviet-bloc and 2 non-Soviet-bloc references. The reference to the English-language publication reads as follows: E. Titchmarsh, Vvedeniye v teoriyu integralov Fur'e [Introduction to the theory of Fourier integrals] M.-L., 1948.

ASSOCIATION: Shakhtinskiy pedagogicheskiy institut (Shakhty Pedagogical Institute)

SUBMITTED: March 16, 1959

Card 6/6

16,4500

31913
S/140/61/000/006/002/007
C111/C444

AUTHOR: Kakichev, V. A.

TITLE: On some Fredholm equations being solvable in Hilbert integrals

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, no. 6, 1961, 32-42

TEXT: The present paper is mainly dedicated to the equation

$$\lambda\varphi + \Gamma a\bar{\varphi} = f, \qquad (0.1)$$

where

$$\bar{\varphi}(s) = \Gamma\varphi(\sigma) = \frac{1}{2\pi}\int_{-\pi}^{\pi} \varphi(\sigma)\ \mathrm{ctg}\ \frac{\sigma - s}{2}\ d\sigma \qquad (0.2)$$

λ being a real parameter, a(s) and f(s) being functions given on $(-\pi, \pi)$ satisfying the Hölder condition.

All integrals are understood in the sense of the Cauchy principal value. Let

$$M\varphi = \frac{1}{2\pi}\int_{-\pi}^{\pi} \varphi(s)\, ds. \qquad (0.4)$$

Card 1/6

If a real 2π-periodic function $\varphi(s)$ satisfies the Hölder condition, then let $\varphi \in H$; if besides there is $M\varphi = 0$, then let $\varphi \in H^0$.

Let

$$(\varphi, \psi) = \int_{-\pi}^{\pi} \varphi(s)\,\psi(s)\,ds. \qquad (1.10)$$

Let $H'(H^{0'})$ denote those classes of generalised functions $\varphi(s)$ which are generated by (1.10) over the classes $H(H^0)$ of the functions $\varphi(s)$.

Let

$$a(s) \overline{*} \varphi(s) = \frac{1}{2\pi} \int_{-\pi}^{\pi} \left[a(\sigma)\varphi(s) + a(s)\varphi(\sigma) - a(\sigma)\varphi(\sigma)\right] \operatorname{ctg} \frac{\sigma - s}{2}\, d\sigma. \qquad (1.7)$$

Theorem 1: (on the convolution) If $\varphi(s) \in H$ and $a(s) \in H$, then

$$\Gamma \bar{a}\bar{\varphi} = -a \overline{*} \varphi, \quad \Gamma a \overline{*} \varphi = \bar{a}\bar{\varphi} - M\bar{a}\bar{\varphi}. \qquad (1.8)$$

If $\varphi(s) \in H'$ and $a(s) \in H$ ($\varphi(s) \in H^{0'}$ and $a(s) \in H$), then (1.8)

(or $\Gamma \bar{a}\bar{\varphi} = -a \overline{*} \varphi, \quad \Gamma a \overline{*} \varphi = \bar{a}\bar{\varphi}$ (1.12))

Card 2/6

On some Fredholm equations being . . .

in the class $H'(H^{0'})$.

In the class $H^0(H)$ there is searched a solution of

$$\lambda\varphi(s) + a(s) \overline{*} \varphi(s) = f(s) \qquad (2.1)$$

where $a(s) \in H$, $f(s) \in H$. Let

$$\alpha = -\int_{-\pi}^{\pi} \frac{\bar{f}(\sigma)d\sigma}{\lambda+\bar{a}(\sigma)}, \qquad \beta = \int_{-\pi}^{\pi} \frac{d\sigma}{\lambda + \bar{a}(\sigma)} .$$

Theorem 2: Let $a(s) \in H$, $f(s) \in H^0$, $\lambda + \bar{a}(s) \not\equiv 0$, there exist $\frac{\alpha}{\beta}$, and let $[f(s) + \alpha\beta^{-1}][\lambda + \bar{a}(s)]^{-1} \in H$. Then (2.1) possesses a solution in H^0. This solution is unique and is given by

$$\varphi(s) = -\frac{1}{2\pi} \int_{-\pi}^{\pi} \frac{\bar{f}(\sigma)+\alpha\beta^{-1}}{\lambda+\bar{a}(\sigma)} \operatorname{ctg} \frac{\sigma-s}{2} d\sigma + C \qquad (2.5)$$

with $C = 0$. If $\lambda = 0$, then (2.1) has a solution in the class H which

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is given by (2.5) too, but C now being an arbitrary constant.
Theorem 3 is dedicated to the homogeneous equation

$$\lambda\varphi + a \mp \varphi = 0. \qquad (2.6)$$

One considers the case where $\lambda + \bar{a}(s)$ has zeros of the orders $l_k + 1$ in the points $s_k (-\pi \leq s_k \leq \pi)$, and where $a(s) \in H_l$, $l = \max_k \{l_k\}$, i. e. $\varphi^{(l)}(s) \in H$.

Further on the equation

$$\varphi(s) + \frac{1}{2\pi} \int_{-\pi}^{\pi} \left[a(\sigma)\varphi(-s) + a(-s)\varphi(\sigma) - a(\sigma)\varphi(\sigma) \right] \operatorname{ctg} \frac{\sigma - s}{2} \, d\sigma = f(s), \qquad (4.1)$$

is considered.

Theorem 4: Let $a(s) \in H$, $f(s) \in H^0$, there exist $\frac{\alpha}{\beta} = M \bar{a} \bar{\varphi}$, and the density of the integral (4.5) shall belong to the class H:

Card 4/6

On some Fredholm equations being . . .

$$\varphi(s) = -\frac{1}{2\pi}\int_{-\pi}^{\pi} \frac{\overline{f}(\sigma)+\overline{a}(-\sigma)\overline{f}(-\sigma)-[1+\overline{a}(-\sigma)]\alpha\beta^{-1}}{1-\overline{a}(\sigma)\overline{a}(-\sigma)} \operatorname{ctg}\frac{\sigma-s}{2}\, d\sigma. \quad (4.5).$$

Then (4.1) has the unique solution (4.5) in the class H^0.
At last the system

$$\sum_{p=1}^{n} a_{pq}(s) \overline{*} \varphi_p(s) = f_q(s), \qquad q = 1,2,\ldots, n \qquad (5.1)$$

is investigated, where $a_{pq}(s) \in H$, $f_q(s) \in H^0$ $(p,q = 1,2,\ldots,n)$. By means of the Hilbert transform one obtains a system of algebraic equations. In theorem 5 it is said that in case of the determinant Δ of this system being $\neq 0$ on $s \in (-\pi,\pi)$, and in case of a further determinant Δ_0 being $\neq 0$, then the system (5.1) possesses a unique solution in the class H^0.

There are 4 Soviet-bloc references and 1 non-Soviet-bloc reference.
Card 5/6

31913
S/140/61/000/006/002/007
On some Fredholm equations being . . . C111/C444

The reference to English-language publication reads as follows:
E. Titchmarsh: Vvedenie v teoriyu integralov Fur'e. [Introduction to the theory of Fourier integrals] GITTL, M.-L., 1948.

ASSOCIATION: Shakhtinskiy pedagogicheskiy institut (Shakhty Pedagogical Institute)

SUBMITTED: March 10, 1959

Card 6/6

1. KAKIMOV, T.

2. USSR (600)

4. Stock and Stockbreeding

7. Results of work of a mechanized livestock station, Kolkh. proizv., 13, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

KAKIMZHANOV, A.

The collective and state farms of Kazakhstan should rotate their crops correctly. Vop.ekon. no.1:149-150 Ja '59. (MIRA 12:1)

(Kazakhstan--Rotation of crops)

IMANALIYEV, M.I. (Frunze); KAKISHOV, K.B. (Frunze)

Theory of optimal systems with residual effect. Prikl. mat. i mekh. 28 no.3:534-536 My-Je '64 (MIRA 17:7)

KAKITELASHVILI, G. V.

144. KAKITELASHVILI G. V. *The significance of cavernotomy in complex treatment of patients with tuberculosis of the lungs (Russian text)* Khirurgija 1957, 3 (61–65) Tables 1 Illus. 4

Forty patients with fibrous-cavernous tb of the lungs were under the author's observation. They were subjected to cavernotomy and further treatment of opened cavities is described in this paper. All the patients before being operated were treated by antibacterial preparations (streptomycin, PAS, phthyvasid) depending on the spread and stage of the disease. Special attention was directed to the condition of the draining bronchus. In 22 patients excision of the cavity was done in one stage. The cavities of the upper lobe were usually approached by axillary incision with resection of 3 or 4 ribs. In opening the cavity the author followed the principle of maximal resection of its external and, if possible, lateral walls. The opened cavity was treated by 80 % solution of trichloracetic acid. In the postoperative period when dressings were changed, sterile gauze soaked in streptomycin and penicillin was packed into the cavity. The opening of the bronchus was systematically treated by 33 % solution of $AgNO_3$. Such method of treatment brought about rapid disappearance of tb bacilli from the sputum and also closure of the bronchial fistula. In the presence of bronchial fistula and residual cavity muscular plasty was performed. Out of 40 who were operated 2 patients died. In one patient with bilateral cavernous process, tb bacilli were still present in the sputum. In 3 patients bronchial fistula recurred after muscular plasty. In one of these patients no tb bacilli were found in the sputum. (IX, 15)

KERESELIDZE, K.M., kand.ekonomicheskikh nauk (Tbilisi); KAKITELASHVILI, I.Ya., inzh. (Tbilisi)

Increased labor productivity at the Tiflis Locomotive and Car Repair Shop. Zhel.dor.transp. 41 no.12:71-73 D '59. (MIRA 13:4)

(Railroads--Repair shops)

KAKITELASHVILI, Ya. V.

KAKITELASHVILI, Ya. V. "Changes in the Innervation of an Artery in Spontaneous Gangrene of the Lower Extremities." Cand Med Sci, Central Inst for the Advanced Training of Physician 2 Feb 54. (Vechernyaya Moskva, 22 Jan 54)

SO: SUM 168, 22 July 1954

KAKITELASHVILI, Ya.V.

Significance of cavernostomia in compound therapy for pulmonary tuberculosis [with summary in English]. Khirurgiia 33 no.3:61-65 Mr '57. (MLRA 10:6)

1. Iz 1-y kafedry tuberkuleza (zav. - prof. A.Ye.Rabukhin) TSentral'nogo instituta usovershenstvovaniya vrachey (dir. V.P. Lebedeva).

(TUBERCULOSIS, PULMONARY, surg.
cavernostomy, technic (Rus))

KAKITSLASHVILI, Ya. V.

KAKITSLASHVILI, Ya.V.; SMULEVICH, V.B.

Cavernous resection and simultaneous transplantation of intercosta vascular-muscular pieces [with summary in French]. Probl.tub. 35 no.4:112-113 '57. (MIRA 10:8)

1. Iz kafedry tuberkuleza legkikh (zav. - prof. A.Ye.Rabukhin, professor kafedry - L.K.Bogush) TSentral'nogo instituta usovershenstvovaniya vrachey (dir. V.P.Lebedeva)

(TUBERCULOSIS, PULMONARY, surg.
cavernous resection & simultaneous transpl. of vasc. musc. intercostal pieces (Rus))

KAKITELASHVILI, Ya.V. (Moskva,B.Vlas'yevskiy,d.9,kv.12)

Thoracoplasty with pneumolysis and fixation of the apex in tuberculosis. Grud. khir. 2 no.3:52-55 My-Je '60. (MIRA 15:3)

1. Iz kafedry tuberkuleza (zav. - prof. A.Ye. Rabikhin, nauchnyy rukovoditel' - prof. L.K. Bogush) TSentral'nogo instituta usovershenstvovaniya vrachey (dir. V.P. Lebedeva).
(CHEST--SURGERY)
(TUBERCULOSIS)

KAKITELASHVILI, Ya.V.; AVERBAKH, M.M.

Morphological characteristics of large and giant caverns in pulmonary tuberculosis, resection data. Khirurgiia 39 no.8:11-19 Ag '63. (MIRA 17:6)

1. Iz kafedry khirurgii legochnogo tuberkuleza i drugoy legochnoy patologii (zav.- chlen-korrespondent AMN SSSR prof. L.K. Bogush) i patomorfologicheskoy laboratorii (zav.- prof. V.I. Puzik) TSentral'nogo instituta tuberkuleza Ministerstva zdravookhraneniya SSSR.

KAKITELASHVILI, Ya.V. (Moskva, Trekhprudnyy pereulok, d.5/15, kv.4)

Immediate and late results of the surgical treatment of pulmonary tuberculosis with large and gigantic caverns. Grud. khir. 5 no.5:41-45 S-O '63. (MIRA 17:8)

1. Iz kafedry khirurgii legochnogo tuberkuleza i drugoy legochnoy patologii (zav. - chlen-korrespondent AMN SSSR prof. L.K. Bogush) TSentral'nogo instituta usovershenstvovaniya vrachey.

KAKITELASHVILI, Ya.V.

Pneumonectomy and subtotal lung resection in patients with large and gigantic caverns. Khirurgiia 40 no.3:90-95 Mr '64.
(MIRA 17:9)

1. Kafedra khirurgii legochnogo tuberkuleza i drugoy legochnoy patologii (zav.- chlen-korrespondent AMN SSSR prof. L.K. Bogush) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

KAKITELASHVILI, Ya.V. (Moskva, Trekhprudnyy pereulok, 9/15, kv.4)

Surgical treatment of pulmonary tuberculosis with large and giant caverns. Vest. khir. 92 no.2:51-56 F '64.
(MIRA 17:9)

1. Iz kafedry khirurgii legochnogo tuberkuleza i drugoy legochnoy patologii (zav.- prof. L.K. Bogush) Tsentral'nogo instituta usovershenstvovaniya vrachey (rektor - zasluzhennyy vrach RSFSR M.D. Kovrigina).

KARTVELASHVILI, Ya.V.; ZHILIN, V.K.; SHIRINOVA, N.M.

Characteristics of anesthesia in operations on a single lung in tuberculosis. Eksp. khir. i anest. 9 no.3:65-67 My-Je '64.
(MIRA 18:3)

1. Kafedra khirurgii legochnogo tuberkuleza (zav. - deystvitel'nyy chlen AMN SSSR prof. L.K. Bogush) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

KAKLUBOWSKA, J.Z.

Algae of artificial ponds in Lodz City and Pabianice City. Polskie arch hydrobiol 8:223-233 '61.

1. Katedra Systematyki i Geografii Roslin, Uniwersytet, Lodz.

L 10635-66 EWT(l)/EEC(k)-2/T/EWA(h) IJP(c)
ACC NR: AR5023525 SOURCE CODE: UR/0275/65/000/008/B034/B034

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 8B277

AUTHOR: Kaklyugin, B. A.

TITLE: Temperature stabilization of transistors

CITED SOURCE: Tr. Tbilissk. n.-i. in-ta priborostr. i sredstv avtomatiz., no. 4-5, 1964, 227-231

TOPIC TAGS: transistor, transistorized amplifier, temperature stabilization, TRANSISTORIZED CIRCUIT

TRANSLATION: A method is suggested for estimating the temperature stabilization of a-c transistor gain by means of a low-frequency transistor equivalent circuit. A formula is developed for the maximum value of the internal resistance of the signal source which ensures constant gain. An example is given of calculation of an amplifier with P14 transistors that has practically constant gain within -60 +60C. Figs. 4

SUB CODE: 09

Card 1/1 UDC: 621.382.317.71

L 37115-66 EWP(k)/EWT(d)/EWP(h)/EWP(l)/EWP(v) BC/GD

ACC NR: AT6006232 SOURCE CODE: UR/0000/65/000/000/0373/0381

AUTHOR: Kaklyugin, B. A.

33
B+1

ORG: None

TITLE: The expansion of three-valued logic functions

SOURCE: AN SSSR. Institut avtomatiki i telemekhaniki. Tekhnicheskaya kibernetika (Technical cybernetics). Moscow, Izd-vo Nauka, 1965, 373-381

14

TOPIC TAGS: computer logic, logic circuit, mathematic logic, computer control system

ABSTRACT: A general method is proposed for expanding three-valued logic functions for various base operators. The possibility is discussed of realizing three-valued logic functions by three-component elements. The algorithm for three-valued logic algebra is given. A general formula is given for the expansion of a two-variable function. A general expansion formula is also presented. The results show that expansion formulas can be set up for all cases. It is also indicated that no one has attempted to solve this problem. Three-component elements are one of the difficulties in solving this problem. Only a few types have been developed and these are comparatively complex. A three-component element

Card 1/2

L 37115-66

ACC NR: AT6006232

made up of tunnel diodes appears to be best suited for solving this problem. Orig. art. has: 7 figures and 13 tables.

SUB CODE: 09 / SUBM DATE: 05Nov65 / ORIG REF: 002 / OTH REF: 004

Card 2/2

L 35565-65 EPF(c)/EPF(n)-2/EPR/EWG(j)/EWT(d)/EWT(1)/EWT(m)/EWP(b)/EWP(e) Pr-4/
ACCESSION NR: AP5008153 Pa-4/Pu-4 WH/WW/JW/ S/0286/65/000/005/0031/0031
KDW/JD

AUTHORS: Zinchenko, A. I.; Zarechenskiy, Ye. T.; Noshchenko, K. Ye.; Kanevskiy, L. S.; Sinyavskiy, B. S.; Novlyanskiy, V. P.; Kaklyugin, B. S.; Fal'ko, V. I.; Kosmynin, Ye. Ya.; Genin, L. Sh.; Kralin, L. A.

TITLE: A graphite heat exchanger. Class 17, No. 168734

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 31

TOPIC TAGS: heat exchanger, graphite

ABSTRACT: This Author Certificate presents a graphite heat exchanger made of blocks with channels for heat-exchanging media. It is equipped on the ends with caps and fittings for introducing and removing the indicated media. To improve the thermal efficiency and to reduce weight, the caps are equipped with adapter plates and horizontal baffles for multipass parallel countercurrents of the media.

ASSOCIATION: none

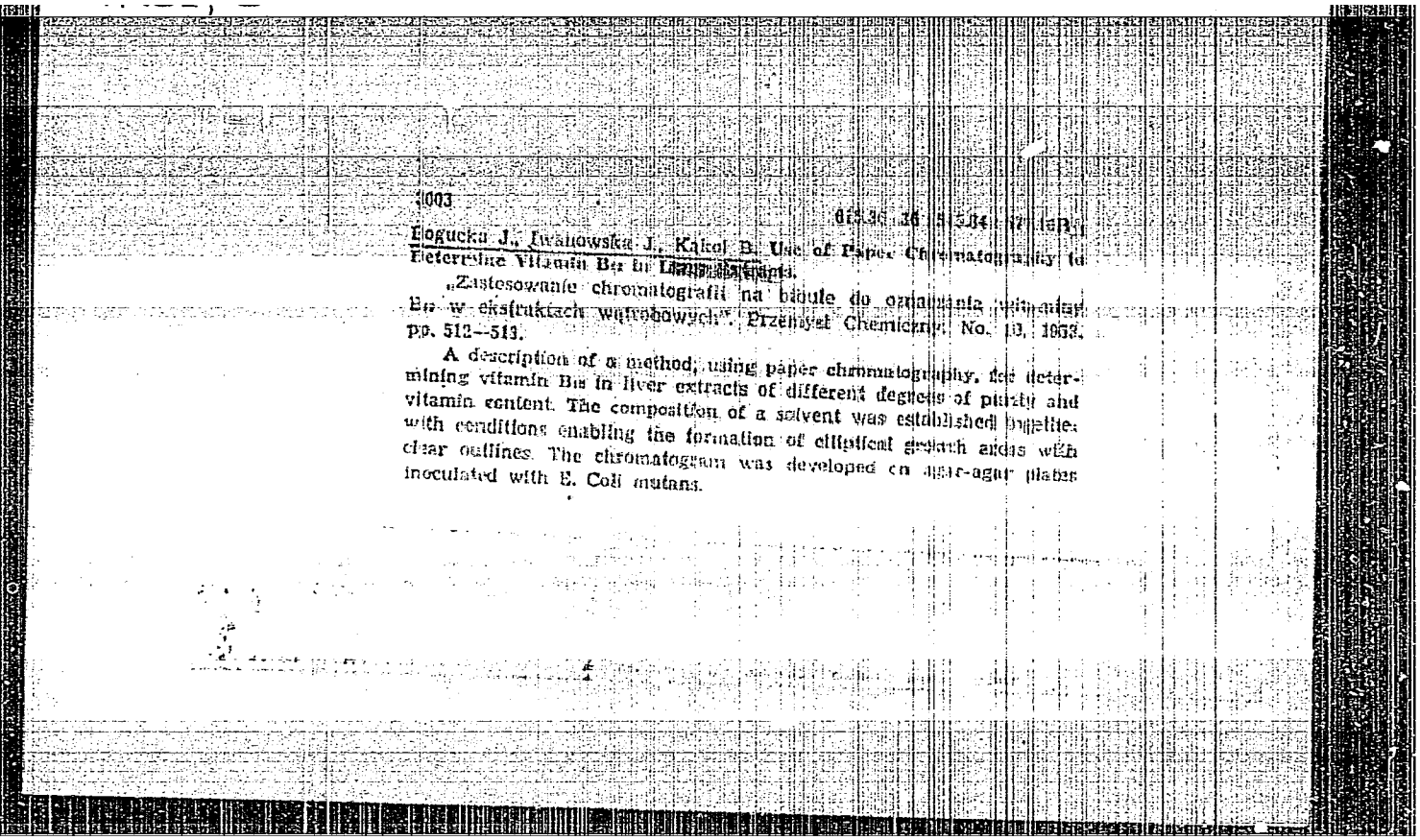
SUBMITTED: 20Feb63 ENCL: 00 SUB CODE: TD

NO REF SOV: 000 OTHER: 000

Card 1/1

KAKOISHVILI, G.A.

Regeneration of the splenic tissue. Soob. AN Gruz. SSR 35 no.3: 721-727 S '64. (MIRA 17:11)



1003

Elogucka J., Iwanowska J., Kakol B. Use of Paper Chromatography to Determine Vitamin B_{12} in Liver Extracts.

„Zastosowanie chromatografii na bibule do oznaczania witaminy B_{12} w ekstraktach wątrobowych". Przemysł Chemiczny, No. 10, 1953, pp. 512–513.

A description of a method, using paper chromatography, for determining vitamin B_{12} in liver extracts of different degrees of purity and vitamin content. The composition of a solvent was established together with conditions enabling the formation of efficient growth areas with clear outlines. The chromatogram was developed on agar-agar plates inoculated with E. Coli mutans.

KAKOL, H.

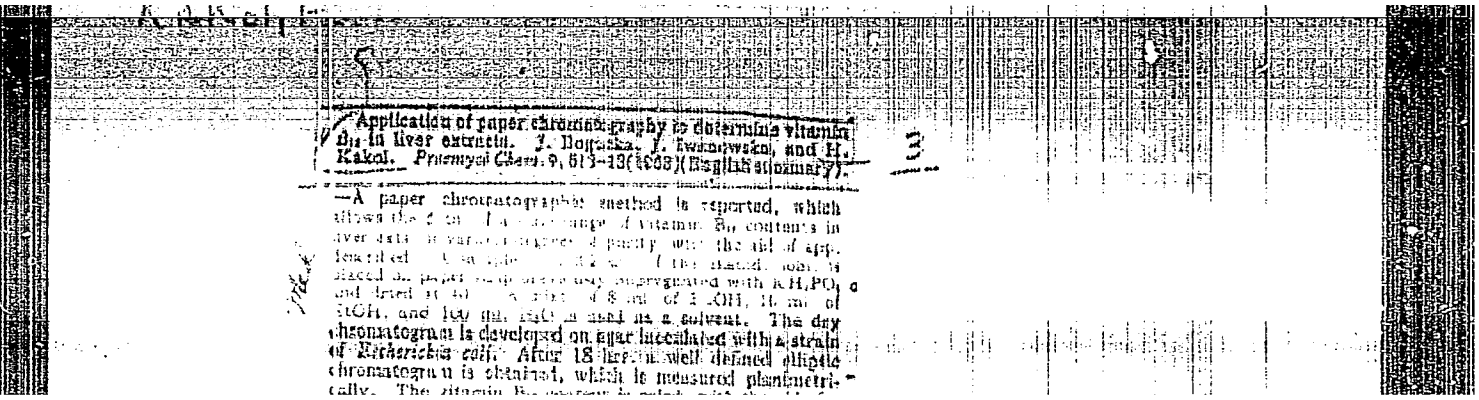
Polish Technical Abst.
No. 4, 1953
Chemistry and Chemical
Technology

3 Aeromed

3100
Bogucka J., Iwanowska J., Kąkol H. Determining Vitamin B_{12} in Liver Extracts. 615.361.36 : 577.16 B_{12} : 543.9

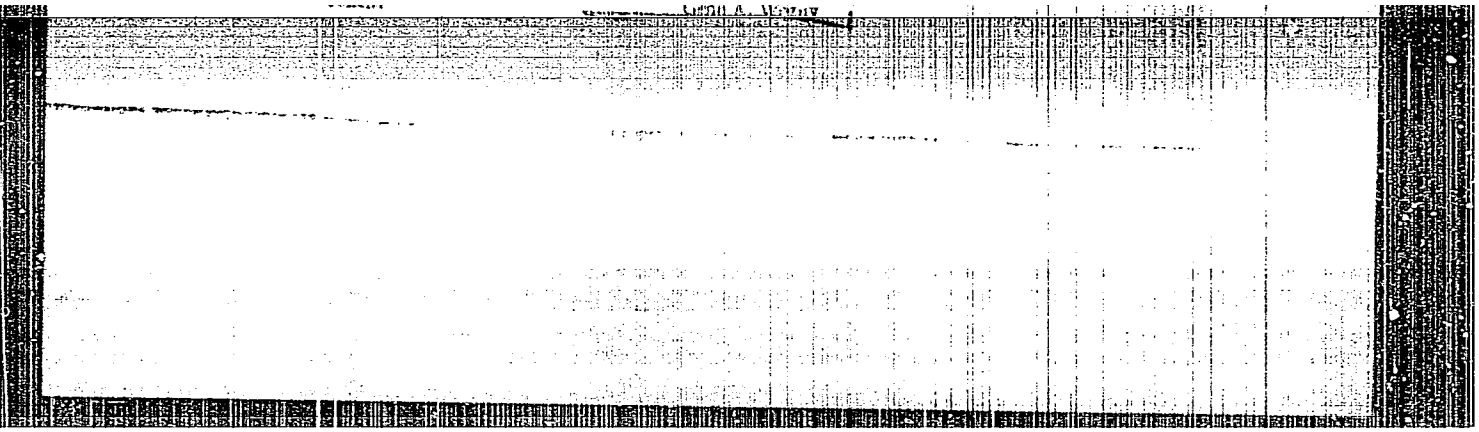
„Oznaczanie witaminy B_{12} w ekstraktach wątrobowych". Przemysł Chemiczny. No. 1, 1953, pp. 10—13, 1 fig., 2 tabs.

An exposition of the cup-plate method of determining vitamin B_{12} in purified liver extracts using Lactobacillus Lactis Dorner and Lactobacillus Leichmanii. Also described is an acidimetric method of determining (by using Lactobacillus Leichmanii) the factor of growth in unpurified or insufficiently purified liver extracts. The vitamin B_{12} content was determined from the difference in quantities of factors of growth found in the extract prior to and after hydrolizing it with an 0.2 n solution of sodium hydroxides.



Application of paper chromatography to determine vitamin B_{12} in liver extracts. J. Hoffska, J. Iwanowska, and H. Kakol. *Przemysl Chem.* 9, 613–13(1953)(English summary).

—A paper chromatographic method is reported, which allows the [illegible] of vitamin B_{12} contents in liver [illegible] parity with the aid of app. described [illegible] of the method [illegible] is placed [illegible] impregnated with KH_2PO_4 and dried [illegible] of 8 ml. of 1 N NH, 10 ml. of EtOH, and [illegible] and as a solvent. The dry chromatogram is developed on agar inoculated with a strain of *Escherichia coli*. After 18 hrs. a well defined elliptic chromatogram is obtained, which is measured planimetrically. The vitamin [illegible]



APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000620010002-0"

Analytical Abst.
May 1954
Biochemistry

1109. **Application of paper chromatography for the determination of vitamin B_{12} in liver extracts.** J. Bogucka, J. Iwanowska and H. Kaldi (*Przem. Chem.*, 1953, **32** [10], 512–513).—A biological method for the determination of up to 1 μg per ml of vitamin B_{12} in liver extracts has been described by the authors (*Przem. Chem.*, 1953, **32**, 14). Now a paper chromatographic method is reported, which allows the determination of a wide range of vitamin-B_{12} contents in liver extracts of various degrees of purity, with the aid of an apparatus described by Hermanowicz and Obuchowska (*Przem. Chem.*, 1950, **29**, 649). Sample of 0·002 ml of the examined soln. are placed on paper strips previously impregnated with KH_2PO_4 and dried at 40° C. A mixture of 8 ml of *n*-butanol, 10 ml of ethanol and 100 ml of water serves as solvent. The dry chromatogram is developed on agar inoculated with a strain of *E. coli*. After 18 hr. a well-defined elliptic chromatogram is obtained, which is measured planimetrically. The vitamin-B_{12} content is calculated with the aid of a graph, in which for a standard vitamin-B_{12} soln. the chromatographic zones are plotted against the log. of vitamin B_{12} concn. H. Bubstin

BIESTEK, A.; BOGUCKA, H.; GAJCY, H.; KAKOL, H.

Isolation of bacteria synthetizing vitamin B12. Acta physiol. polon. 10 no.1:115-123 Jan-Feb 59.

1. Z Zakladu Badania Organopreparatow i Witamin Instytutu Lekow w Warszawie Kierownik Zakladu: mgr. J. Iwanowska. Dyrektor Instytutu: prof. dr P. Rubikowski.

(GASTROINTESTINAL SYSTEM, microbiology,
bact. synthetizing vitamin B12, isolation in animals (Pol))
(VITAMIN B12,
isolation of gastrointestinal bact. synthetizing vitamin B12 in animals (Pol))
(BACTERIA,
isolation of bact. synthetizing vitamin B12 (Pol))

KAKOL, Helena; BOGUCKA, Jadwiga; GAJCY, Hanna

Synthesis of vitamin B2 in using of Eremothecium ashbyii. Acta physiol.polon. 12 no.1:181-188 Ja-F '60.

1. Z Zakladu Badania Organopreparatow i Witamin Instytutu Lekow w Warszawie. Kierownik Zakladu: mgr J. Iwanowska.
(FUNGI metab.)
(VITAMIN B2 metab.)

KAKOL, Helena; BOGUCKA, Jadwiga; GAJCY, Hanna

Chromatographic determination of folic acid with the aid of streptococcus faecalis. Acta physiol pol 12 no.6:869-880 '61.

1. Zaklad Badania Organopreparatow i Witamin Instytutu Lekow w Warszawie. Kierownik: mgr. Iwanowska, J. Adres autorow: Instytut Lekow, Warszawa, ul. Dluga 16.

(Chromatography)

BIESTEK, Alina; KAKOL, Helena; BOGUCKA, Jadwiga; GAJCY, Hanna

An attempt to synthesize testosterone from dehydroisoandrosterone microbiologically. Acta physiol pol 12 no.6:881-886 '61.

1. Zaklad Badania Organopreparatow i Witamin Instytutu Lekow w Warszawie. Kierownik:mgr. J. Iwanowska. Adres autorow: Instytut Lekow, Warszawa, ul. Dluga 16.

(Testosterone) (Chemical reactions)

KAKOL, H.; BOGUCKA, J.; GAJCY, H.

Microbiological determination of folic acid in simple pharmaceutical preparations by the cup method. Acta physiol. polon. 13 no.5:671-677 '62.

1. Z Instytutu Lekow w Warszawie Dyrektor: prof. dr P. Kubikowski Z Zakladu Biochemii Instytutu Lekow Kierownik: mgr J. Iwanowska.
(FOLIC ACID) (BIOLOGICAL ASSAY) (STREPTOCOCCUS FAECALIS)

KAKOL, Helena; BOGUCKA, Jadwiga; GAJCY, Hanna

Determination of vitamin B 12 (cyanocobalamine) in liver preparations with the use of Lactobacillus leichmanii and paper chromatography. Med. dosw. mikrobiol. 16 no.1:69-72 '64.

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KAKOL, Helena; BOGUCKA, Jadwiga; GAJCY, Hanna

Biochemical analysis of liver extracts of the "crude" type after alkaline hydrolysis. Acta physiol. Pol. 16 no.3:475-483 My-Je '65.

1. Zaklad Biochemii Instytutu Lekow w Warszawie (Dyrektor Instytutu: prof. dr. P. Kubikowski; Kierownik Zakladu: mgr. J. Iwanowska).

KAKOL, I.

NIEMIERKO, W.; KAKOL, I.; ZALUSKA, H.

Carbohydrate metabolism during growth of silkworm Larvae. Acta physiol. polon. 5 no.4:584-586 1954.

1.Z Zakladu Biochemii Instytutu im. M.Nenckiego. Kierownik: prof. dr W.Niemierko.

(MOTHS,
silkworm, carbohydrate metab. during growth of larvae)
(CARBOHYDRATES, metabolism,
silkworm, during develop. in larvae)

KAKOL, I.

NIEMIERKO, W.; DYDYNSKA, M.; DRABIKOWSKI, W.; KAKOL, I.; ZAIUSKA, E.

Free and bound ATP and ADP in frog muscles. Acta physiol. polon. 5 no.4:609-611 1954.

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(ADENYLPYROPHOSPHATE, metabolism, musc., in frog)
(MUSCLES, metabolism, ADP & ATP)

KAKOL, I

BRAHMS, J.; KAKOL, I.

Correlation between sulfhydryl groups of myosin and phosphorus compounds during decomposition of adenosintriphosphoric acid. Acta physiol. polon. 8 no.3:289-290 1957.

1. Z Zakladu Biochemii Instytutu im. M. Nenckiego w Warszawie Kierownik: prof. dr W. Niemierko.

(ADENYLPYROPHOSPHATE,
decomposition, correlation between sulfhydryl groups of myosin & phosphorus cpds. (Pol))
(SULFHYDRYL COMPOUNDS,
relation to phosphorus in ATP decomposition (Pol))
(PYOSPHORUS
relation to myosin sulfhydryl cpds. in ATP decomposition (Pol))
(MUSCLE PROTEINS,
myosin sulfhydryl cpds., relation to phosphorus in ATP decomposition (Pol))

KAKOL, I.

DYDYNSKA, M.; KAKOL, I.; KOWALSKI, T.; STRZELECKA, H.; NIEMIERKO, W.

Binding of nucleotides with muscle proteins and with other organs in frog. Acta physiol. polon. 8 no.3:316-318 1957.

1. Z Zakladu Biochemii Instytutu im. M. Nenckiego w Warszawie Kierownik: prof. dr W. Niemierko.

(MUSCLE PROTEINS,
binding with nucleotides (Pol))
(NUCLEOSIDES AND NUCLEOTIDES,
binding with musc. proteins & other organs in vitro (Pol))

GRUDA, J.; KAKOL, I.; RZYSKO, C.

Splitting of ATP by actomyosin and changes in the character of its phosphorus compounds. Bul Ac Pol biol 8 no.4:133-135 '60.
(EEAI 9:10)

(ADENOSINE TRIPHOSPHATES)
(ACTOMYOSINS)
(PHOSPHORUS)

MIKES, O.; KAKOL, I.; ZBROZYNA, A. J.; SORM, F.

Proteins. LVIII. Growth-stimulating peptides from neutral fraction of a partial acid hydrolysate of chymotrypsinogen. LIX. Growth-stimulating peptides from neutral fraction of a partial acid hydrolysate of diisopropylphosphoryl trypsin. Coll Cz Chem 25 no.7:1938-1951 Jl '60. (EEAI 10:9)

1. Department of Biochemistry, Institute of Chemistry, Czechoslovak Academy of Science, Prague(for Mikes and Sorm) 2. Present address: Department of Biochemistry, Marcel Nencki Institute, Warsaw, Poland (for Kakol) 3. Present address: Department of Biochemistry, State Institute of Hygiene, Warsaw, Poland (for Zbrozyna)

(Proteins) (Peptides) (Chymotrypsinogen)
(Diisoprophlphosphoryltrypsin hydrolysates)

GRUDA, J.; KAKOL, Irena; NIEMIERKO, W.

Direct transfer of orthophosphate from adenosine triphosphate to myosin and H-meromyosin. Acta biochim. polon. 9 no.3:215-226 '62.

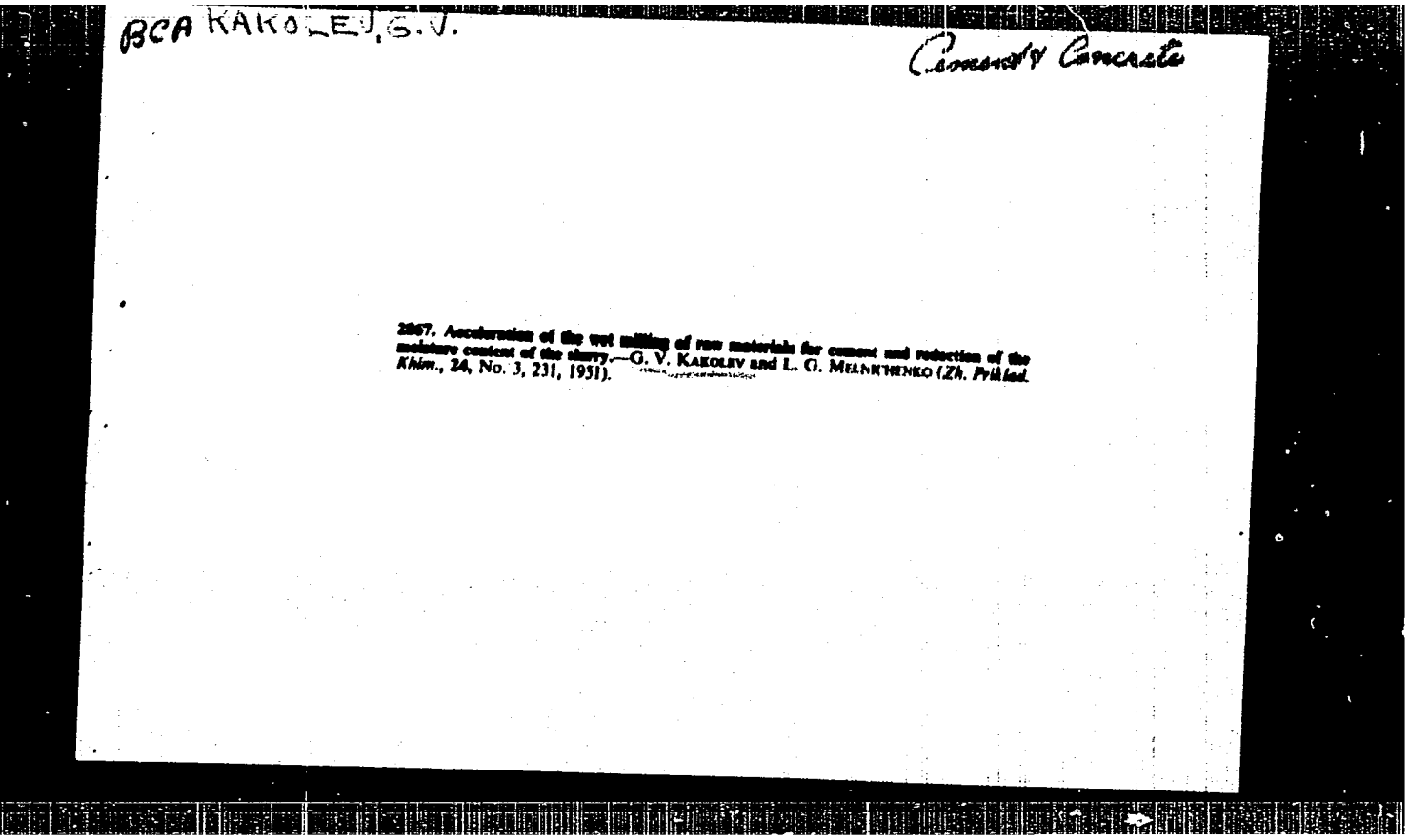
1. Department of Biochemistry, Nencki Institute of Experimental Biology, Warszawa.
(PHOSPHATES - metabolism) (ADENOSINE PHOSPHATES - metabolism)
(MUSCLE PROTEINS - metabolism)

KAKOL, Kazimierz

More on socialist labor discipline; against Ignacy Wolberg's theory.
Praca zabezp spol 4 no. 4:85-87. Ap '62.

KAKOL, Kazimierz

After the 5th Congress of the Trade Unions; tasks corresponding to our times; methods tailored for the tasks. Praca zabezp spol 5 no.3: 1-5 Mr '63.



BCA KAKOLEV, G.V.

Cement Concrete

2867. Acceleration of the wet milling of raw materials for cement and reduction of the moisture content of the slurry.—G. V. KAKOLEV and L. G. MELNIKTHENKO (*Zh. Prikład. Khim.*, 24, No. 3, 231, 1951).

KHKOLEV, G.V.

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PHASE I BOOK EXPLOITATION SOV/1788

Ogneupory dlya chernoy metallurgii; sbornik statey (Refractories in Ferrous Metallurgy; Collection of Articles) Moscow, Metallurgizdat, 1958. Errata slip inserted. 4,000 copies printed.

Ed.: D. I. Gavrish, Engineer; Ed. of Publishing House: I. F. Kirsanov; Tech. Ed.: A. I. Karasev.

PURPOSE: This book is intended for engineers and technicians working in ferrous metallurgy.

COVERAGE: The book consists of 20 articles on the development and use of refractories in the Soviet metallurgical industry. D. I. Gavrish, in the first paper, presents the prospects for development and research projects for the period 1959-1965. He emphasizes development of refractory plants in the eastern part of the USSR. In general the articles deal with recent developments in basic and acidic refractories for blast and open hearth furnaces, and for the lining of ladles and special equipment used in continuous casting and in vacuum treatment of steel. A. S. Berezhnoy discusses the technology of manufacturing magnesite and forsterite refractories which frequently replace Dinas brick and fire clay. Several authors state that good results were obtained with

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periclase-spinell brick and with bricks made of magnesium and chromite compounds. The application of new refractories, insulating materials, high-temperature mortars, binding media, and cements, combined with advanced techniques in lining furnaces, are said to have more than doubled the time intervals between relining and overhauling furnaces. O. M. Margulis and A. G. Karaulov discuss the use of "tagged atoms" to determine the degree of contamination of steel by refractory-lining particles. N. S. Losyak describes the production of refractories by the semidry pressing method employed at the Nizhne-Tagil' plant, and I. S. Kaynarskiy and V. D. Tsigler cover the use of lightweight Dinas bricks in industrial furnaces. The last paper written by A. N. Kakolyshev compares and evaluates the physical properties and service life of fire-clay bricks, forsterite bricks, Dinas bricks and bricks with high alumina content. Graphs, diagrams, and photographs accompany the papers. For references, see Table of Contents.

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Refractories in Ferrous Metallurgy (Cont.) SOV/1788

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KAKOLEWSKA-BA-NIUK, A.

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Warsaw, Bulletin de l'Academie Polonaise des Sciences; Serie des Sciences Biologiques, Vol I, No 5, 1952

1. "Studies on the Antigenic Structure of Listeria monocytogenes. IV. Antigenic Properties and Chemical Structure of Saccharide Fractions Isolated from 8 Strains," H. Zubrzewicz, of the Department of Medical Microbiology, School of Medicine, Warsaw (Zaklad Mikrobiologii Lekarskiej, AM, Warszawa); English article, pp. 151-155.

2. "Tingitanine in Etiolated Lathyrus tingitanus," J. Przybylska, of the Institute of Plant Genetics, Poznan (Zaklad Genetyki Roslin) of the Polish Academy of Sciences (PAN); English article, pp. 157-160.

3. "Biogenesis of Alkaloids. II. The Interconversion of Exogenous Alkaloids in Lupinus angustifolius. Some Experimental Data on the Hydroxylupanine Esters Fractions," I. Reifer, M. Wiewiorowski, S. Miziolek, D. Stavicka and D.W. Bratek, of the Institute of Biochemistry and Biophysics, Polish Academy of Sciences (Instytut Biochemii i Biofizyki, PAN) and the Department of Biochemistry, Central College of Agriculture, Warsaw (Katedra Biochemii, SGGW, Warszawa); English article, pp. 161-166.

4. "Microbial Degradation of Lupanine. IV. Exclusion of Hydroxylupanine as an Intermediate," A. Kakolewska-Baniuk, H. Toczko and W. Brzeski, of the Department of Biochemistry, Central College of Agriculture, Warsaw (Katedra Biochemii, SGGW, Warszawa) and the Institute of Biochemistry and Biophysics, Polish Academy of Sciences (Instytut Biochemii i Biofizyki, PAN), English article, pp. 167-170.

5. "Disturbance in Antigen Vi Production as a Result of MP Mutation in Salmonella typhi," K. Taylor and Z. Buczowski, of the Institute of Marine Medicine, Gdansk (Instytut Medycyny Morskiej, Gdansk), English article, pp. 171-173.

6. "Notes on Micronectinae from Viet-Nam (Heteroptera, Corixidae)," A. Wroblewski, of the Institute of Zoology, Poznan Branch, Polish Academy of Sciences (Instytut Zoologiczny, Oddzial Poznan, PAN), English article, pp. 175-180.

KAKOLEWSKA-BANIUK, A.; TOCZKO, M.; BRZESKI, W.

Microbial degradation of lupanine. IV. Bul Ac Pol biol 10 no.5:167-170 '62.

1. Department of Biochemistry, Central College of Agriculture, and Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warsaw. Presented by J.Heller.

L 11011-66

ACC NR: AP6004963 SOURCE CODE: CZ/0083/65/000/002/0080/0086

AUTHOR: Jus, A.--Yus, A.; Jusova, K.--Yus, K.; Kakolewski, J.--Kankolevski, I.

ORG: Psychiatric Clinic A. M., Warsaw

TITLE: The influence of intravenous administration of noradrenaline upon polygraphic reactions of schizophrenics

SOURCE: Ceskoslovenska psychiatrie, no. 2, 1965, 80-86

TOPIC TAGS: drug treatment, psychoneurotic disorder, gland drug, psysiologic parameter, blood pressure, psychophysiology

ABSTRACT: A study was made of 10 recent and 10 chronic schizophrenics, and 10 normal subjects. Recent cases before treatment react to noradrenaline administration by lower systolic and diastolic blood pressure increase, and by a higher increase in heart beat frequency than the controls. During treatment these values approach the values of the the control group. The psychic state is improved in proportion to these values. After the interruption of the treatment there is a gradual reversion to the original conditions. Chronic schizophrenics did not show any changes in blood pressure caused by noradrenaline. The decrease of the heart beat frequency was much greater than in the control group. Possible hypothalamic mechanism of the reaction is discussed. This work was presented by J. Brehovy. Orig. art. has: 1 figure and 2 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: none

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JANKOWSKI, Kazimierz; KAKOLEWSKI, Jan; KNOLL, Elzbieta; URBANEK, Bogumila

Investigations on the effect of the chronic administration of quantril (P-2647) to rats. Neurol. neurochir. psychiat. Pol. 15 no.2:235-240 Mr-Ap '65.

1. Z Kliniki Psychiatrycznej AM w Warszawie (Kierownik: prof. dr. A. Jus).

Kirkelewicz, W.

POLAND/Nuclear Physics - Nuclear Power and Technology.

Abs Jour : Ref Zhur Fizika, No 10, 1959, 22284

Author : Jerowska-Trzebiatowska, B.; Burtecki; Chmielowska, M., Przywarska, H., Mikulski, T., Rubietzynska, K., Sikorski, W.

Inst :

Title : Studies on the Chemistry of Sesquivalent and Quadrivalent Uranium in Organic Solvents.

Orig Pub : Rudeconika, 1958, 3, Spec Number, 39-58

Abstract : No abstract.

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TOCZKO M., BRZESKI W., KAKOLEWSKA-BANIUK A.
Institute of Biochemistry and Biophysics at the Polish Academy of Sciences (Instytut Biochemii i Biofizyki, PAN); Department of Biochemistry at the Agricultural University (Zaklad Biochemii, SGGW), Warsaw.

"Microbial Degradation of Lupanine. V.Identification of of 17-Hydroxylupanine".

Warsaw, Bulletin de l'Academie Polonaise des Sciences, Serie des Sciences Biologiques, Vol XI, No 4, 1963; pp 161-164.

Abstract [English article, Russian summary]: It has been established, by means of physico-chemical and biological methods, that alkaloid L_x previously obtained as a product of bacterial disintegration of lupanine is identical with 17-hydroxylupanine.
Eight bibliographical references are listed: 3 Polish, 3 USA and 2 Canadian.

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KAKOLEWSKI, Jan

Pharmacology of some piperazine phenothiazine derivatives used in conjunction with haloperidol. Neurol. neurochir. psychiat. Pol. 14 no.1:93-99 Ja-F '64.

1. Z Pracowni Psychofarmakologicznej Kliniki Psychiatrycznej Akademii Medycznej w Warszawie (Kierownik Kliniki: prof. dr. med. A. Jus).

JUS,A.; JUSOVA,K.; KAKOLEWSKI, J.

The effect of intravenously administered noradrenalin on the polygraphic reactions of schizophrenics. Cesk. psychiat. 61 no.2:80-86 Ap '65

1. Psychiatricka klinika A.M. ve Warsave.

KAKOLOWSA, H.

Oxygen decomposition of cellulose by the intestinal bacteria of the horse. Med.dosw.mikrob. 2 no.2:132-133 1950. (CIML 20:6)

1. Summary of report given at 10th Congress of the Polish Microbiological and Epidemiological Society held in Gdansk, Sept. 1949. Author is from Warsaw.

ZIOLKOWSKI, Zdzislaw; NAUMOWICZ, Jerzy; KAKOMASKI, Krzysztof

Extraction of phenols in a packed tower with low concentrations. Chemia stosow 3 no.4:475-485 '59.

1. Katedra Inzynierii Chemicznej, Politechnika, Wroclaw.