ALBERT, .

New methods used in glass analysis.

P. 42. (SKLAR A KERAMIK) (Praha, Czechoslovakia) Vol. 7, no. 2, Fe . 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, no. 5, 1958

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. Ceramics. Glass. Binding Materials. Concrete H-13

Abs Jour : Ref Zhur - Khimiya, 1958, No 22, 74726

Author : Palecek M.
Inst : Not Given
Title : Newest Methods Employed in the Chemical Analyses of Glass

Orig Pub : Sklar a keramik, 1958, 8, No 2, 42-44

Abstract : Brief review of newest physico-chemical methods employed in the glass analyses include: flame photometry, spectrography, polarography, potenciometric titration, titration at high frequencies, separation of ions by means of ion exchange substances. Modern accelerated chemical test methods of determining SiO_2, Al_2O_3, Pb, Zn, Ca, Mg, Sr, Be, F, SO_3, B_2O_3, and alkali are innumerated. Test method for the latter involve the use of organic complexes and of ion exchange substances. Bibliography includes 64 names.

Card : 1/1

PALECEK, Milan, inz.

Use of ion exchangers in the analytical chemistry of silicates. Pt. 4. Sklar a keramik 13 no. 12: Supplement: 94-96 D '63.

1. Statni vyzkumny ustav sklarsky, Hradec Kralove.

PALECEK, Milan; PRIBIL, Rudolf

Direct determination of zinc dioxide in glass. Silikaty 6 no.3:296-298 '62.

1. Statni vyzkumny ustav sklarsky, Hradec Kralova; Laborator analyticke chemie, Ceskoslovenska akademie ved, Praha.

CZECHOSLOVAKIA / Analytic Chemistry. Analysis of Inorganic Substances.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60627.

Author : Milan Palecek.
Inst : -
Title : Application of Ion Exchange in Analytic Chemistry of Silicates.

Orig Pub: Sklar a keramik, 1957, 7, No 11, 320-322; No 12, 355-357.

Abstract: Review. Bibliography with 28 titles.

Card 1/1

PALECEK, Milan, inz.

"Inorganic chemistry" by [prof., dr.] Heinrich Remy. Vol. 2. Reviewed by Milan Palecek. Sklar a keramik 13 no.4:112 Ap '63.

PALECEK, Milan, inz.

"Analysis of silicates" by I.A. Voinovitch, J. Debras-Guedon, J. Lourvrier. Reviewed by Milan Palecek. Sklar a keramik 13 no.5:140 My '63.

Palecek, Milan

Chemical stability of melted rocks. A. Laboratory experiments. Jan Voldán and Milan Palecek (Glass Research Inst., Hradec Králové, Czech.). *Věda a výzkum v průmyslu sklářském* 2, 79–103(1950)(English summary).—The analytical methods were discussed, and slightly modified German norms DIN 13111, DIN 12116, and DIN 12122 were used. More than 100 samples of natural (I), recryst. (II), and glassy (III) rocks (basalt, diabase, etc.) were tested as to their resistance toward H_2O, acids (20% HCl), and bases (1:1 mixt. of *N* NaOH and *N* Na_2CO_3). The melted rocks were resistant toward H_2O and bases regardless of the state (I, II, or III) of the raw material. The resistance toward acids was highest for II, lower for I, and lowest for III. The chem. compn. of the rock had a pronounced influence upon the resistance which was reduced especially in acid media where the amt. of corrosion increased with increasing basicity. 29 references. Alexej B. Bořkovec

PALECHEK, E. M.

Mar '48

AMR

Ballistics (Detonics)

4

3721. Palechek, E. M., On the question of calculation of trajectories of the centers of gravity of artillery shells (in Russian), *Prikl. Mat. Mekh.* 15, 1, 83-96, Jan.-Feb. 1951.

The essence of Kazakov's method [*Prikl. Mat. Mekh.* 9, 129-138, 1945] for numerical integration of the system of differential equations of the particle problem in exterior ballistics lies in the fact that the extrapolations are not directly performed upon the one or the other variables, but rather upon certain auxiliary quantities which have little influence on the results of extrapolation. Kazakov himself used as the independent variables the abscissa of the center of gravity and the time of flight of the particle.

Author extends Kazakov's method to the case where either the tangent of the angle of inclination of the tangent to the trajectory or the horizontal component of the velocity is taken as the independent variable. Estimates of the relative error of the results for each choice of the independent variable are given, and the appropriateness of the choice to the purpose is discussed.

E. Leimanis, Canada

Dyl '51

PALECHEK, Ye. M.

PALEČEK, YE. M.

Paleček, E. M. On the computation of the trajectories of the centers of gravity of artillery shells. Akad. Nauk SSSR. Prikl. Mat. Meh. 15, 83–96 (1951). (Russian)

The essence of Kazakov's method [Akad. Nauk SSSR. Prikl. Mat. Meh. 9, 129–138 (1945); these Rev. 7, 139] for numerical integration of the system of differential equations of the particle problem in exterior ballistics lies in the fact that the extrapolations are not directly performed upon the one or the other variables, but rather upon certain auxiliary quantities which have little influence on the results of extrapolation. Kazakov himself used as the independent variables the abscissa of the center of gravity and the time of flight of the particle. The author extends Kazakov's method to the case where either the tangent of the angle of inclination of the tangent to the trajectory or the horizontal component of the velocity is taken as the independent variable. Estimates of the relative error of the results for each choice of the independent variable are given, and the appropriateness of the choice to the purpose is discussed.

E. Leimanis (Vancouver, B. C.).

Source: Mathematical Reviews, Vol 12, No. 9.

124-57-2-2491D

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 137 (USSR)

AUTHOR: Palechek, Ye. M.

TITLE: Stress Analysis of Housings for Frictional Automatic Coupling Devices (Analiz prochnosti korpusov friktsionnykh apparatov avtostsepki)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the Leningr. in-t zh.-d. transp. (Leningrad Institute for Rail Transportation Engineering), Bezhitsk, 1955

ASSOCIATION: Leningr. in-t zh.-d. transp. (Leningrad Institute for Rail Transportation Engineering)

1. Couplings--Equipment 2. Housing--Stresses 3. Stress analysis

Card 1/1

SOV 124-57 7 7576

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 16 (USSR)

AUTHOR: Palechek, Ye. M.

TITLE: Equation of Motion in Terms of Time of an Impact-loaded Friction Shock Absorber Having Nonlinear Characteristics (Uravneniye dvi zheniya v funktsii vremeni pri udare v friktsionnyy amortizator s nelineynoy kharakteristikoy)

PERIODICAL: Tr. Bezhitsk. in-ta transp. mashinostr., 1955, Nr 13, pp 195-207

ABSTRACT: For the case of the friction shock absorbers (buffers) used in the automatic couplings of railroad vehicles the author utilizes the well-known relationship between the displacement of the buffer and the speed of the vehicle to write an approximate first-order differential equation for the displacement of the buffer. Integration of this equation yields an expression for the maximum duration of the impact and makes it possible to arrive at the approximate relationship between the extent or amount of buffer displacement and the impact duration. When a correction factor is introduced, the expression obtained is at variance with the precise expression by no more than 3-7%.

A. S. Alekseyev

Card 1/1

SOV 124-57-7-7577

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 16 (USSR)

AUTHOR: Palechek, Ye. M.

TITLE: The Oscillatory Motion Induced in Railroad Vehicles by Mutual Bumping Impacts (Kolebaniya vagonov pri soudarenii)

PERIODICAL: Tr. Bezhitsk. in-ta transp. mashinostr., 1955, Nr 13, pp 209-224

ABSTRACT: The author investigates the oscillatory motion induced in railroad vehicles by their bumping into one another in order to ascertain the relationship between the bumping-impact energy absorbed by the friction shock-absorbing unit of the automatic coupling and the vehicle's spring suspension. Only the galloping type oscillations are taken into account; the friction that arises in the spring-suspension system is neglected. It is assumed that the spring-type friction shock-absorber unit in the automatic coupling acts as a buffer with linear characteristics and thus does not impede the free vibration of the vehicle body on its suspension springs. The vehicle body's angles of back-and-forth rocking rotation and its up-and-down bouncing-type displacements being assumed to be small, the author obtains a system of two second-order linear equations with constant coefficients; solutions therefor are investigated.

Ye. N. Miroslavlev

Card 1/1

PALECHEK, Ye. M.

PALECHEK, Ye. M.: "An analysis of the body strength of the friction parts of an automatic clutch". Leningrad, 1955. Leningrad Order of Lenin Inst of Railroad Transport Engineers imeni Academician V. N. Obraztsov. (Dissertations for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya letopis', No. 52, 24 December, 1955. Moscow.

USSR/Physics - Projectiles, Artillery Jan/Feb 51
(Shells)

PA 172T96

"Problem of Calculating the Trajectory of the Centroid of Artillery Shells," Ye. M. Palechek, Bashkir Inst of Transport Mech Bldg

"Prikl Matemat i Mekh" Vol XV, No 1, pp 83-96

Further development of method of S. A. Kazakov, published 1945 in "Prikl Matemat i Mekh" Vol IX, No 2, which method is unique in its selection of independent variables. Evaluates relative error of results for numerical integration. Gives practical

172T96

USSR/Physics - Projectiles, Artillery Jan/Feb 51
(Shells) (Contd)

concrete examples and shows how in each case variables are most expediently selected. Submitted 18 Jul 50.

172T96

PALECHEK, Ye. M.

PALECHEK, YE. M.

USSR/Mathematics - Approximations Jul/Aug 52

"Approximate Integration of the Equations of Exterior Ballistics by S. A. Kazakov's Method According to the Vertical Parameters," Ye. M. Palechek, Bezhitsa, Bezhitsa Inst of Transport Mach Constr

"Prik Matemat i Mekh" Vol XVI, No 4, pp 505-510

Considers the problem of computing the trajectories in the case of a projectile aimed against an aerial target where during the integration centroid and vertical component of velocity of shell is employed as the independent variables since it is just these parameters that are the main ones detg the trajectory.

225T56

PALECHEK YE M

123 - 1 - 1

Translation from: Referativnyy Zhurnal, Mashinostroyeniye, 1957, Nr 1, p. 27 (USSR)

AUTHOR: Palechek, Ye. M.

TITLE: Strength Analysis of Frames for Automatic Friction Couplings (Analiz prochnosti korpusov friktsionnykh apparatov avtostsepki)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the Leningrad Institute of Railroad Engineers (Leningr. in-t inzh.zh.-d. transp.), Bezhetsk, 1955

ASSOCIATION: Leningrad Institute of Railroad Engineers, Bezhetsk (Leningr. in-t inzh. zh-d. transp., Bezhetsk)

Card 1/1

PALECHEK, YE. M.

123-1-1056

Translation from: Referativnyy Zhurnal, Mashinostroyeniye, 1957, Nr 1, p. 157 (USSR)

AUTHOR: Palechek, Ye. M.

TITLE: Vibrations of Railroad Cars Resulting From Buffing (Kolebaniya vagonov pri soudarenii)

PERIODICAL: Tr. Bezhitsk. in-ta transp. mashinostr., 1955, Nr 13, pp. 209-223

ABSTRACT: The author analyzes conditions in railroad cars resulting from buffing and derives the relations between the impact energy absorbed by the friction device and the spring suspension. The following assumptions are made to solve the problem: only vibrations from bumping motions are taken into consideration; the spring and friction system of the automatic coupling is considered as a shock-absorber with linear characteristics; the friction in the spring suspension system is disregarded; only small angling and vertical displacements of the car's body are considered. With the help of Lagrange equations a

Card 1/2

PALECHEK, YE. M.

Mar '48

AMR

Ballistics (Detonics) 4

3721. Palechek, E. M., On the question of calculation of trajectories of the centers of gravity of artillery shells (in Russian), *Prikl. Mat. Mekh.* 15, 1, 83-96, Jan.-Feb. 1951.

The essence of Kazakov's method [*Prikl. Mat. Mekh.* 3, 129-138, 1915] for numerical integration of the system of differential equations of the particle problem in exterior ballistics lies in the fact that the extrapolations are not directly performed upon the one or the other variables, but rather upon certain auxiliary quantities which have little influence on the results of extrapolation. Kazakov himself used as the independent variables the abscissa of the center of gravity and the time of flight of the particle.

Author extends Kazakov's method to the case where either the tangent of the angle of inclination of the tangent to the trajectory or the horizontal component of the velocity is taken as the independent variable. Estimates of the relative error of the results for each choice of the independent variable are given, and the appropriateness of the choice to the purpose is discussed.

E. Leimanis, Canada

Dept '51

PALECKIS, Justas; LENKAUSKAS, L., red.[deceased]

[In Mexico] Meksikoje. Vilnius, VAGA, 19[illegible]. [illegible] p.
[In Lithuanina]

1. Predsedatel' Prezidiuma Verkhovnogo Soveta Litovskoy SSR (for Paleckis).

PALECKOVA, F.

Biosynthesis of [illegible]

[illegible]

growing in the medium contg. 2% corn-steep liquor, 2% lactose, 0.2% $CaCO_3$, and 0.04% fresh distd. allylthioacetic acid or Na allylthioacetate. For the pilot fermentation the amt. of corn-steep liquor and lactose were reduced.

K. Macek

PALECKOVA, F.

PAL[illegible], F.; [illegible], J.; [illegible], A.

"Single-spore Isolation of Fungi", [illegible] 195, [illegible] ESLIA, [illegible], Praha, Czech.)

[illegible]: [illegible] List of East Eur[illegible] [illegible] ([illegible]), [illegible], [illegible] 4, [illegible], [illegible] rch 1955, [illegible]cl.

LEHAR, F.; PALECKOVA, J.; UHLIR, M.

Polarization of nucleons at low and medium energy. Cs cas fys 12 no.1:62-83 '62.

1. Fakulta technicke a jaderne fysiky, Ceske vysoke uncei technicke, Praha.

L 26371-65 EWT(m)/EWP(t)/EWP(b) IIIAAP/IJP(c) JD

Z/2511/61/000/001/0081/0089

ACCESSION NR: AT4049958

AUTHOR: Lehar, F. (Legar, F.) (Prague); Paleckova, J. (Paleckova, Y.) (Prague); Skrivanek, J. (Skrivanek, Y.) (Prague); Skrivankova-Vesela, M. (Vesela, M.) (Prague)

19 12 B+1

TITLE: Study of gamma transitions during the inelastic scattering of neutrons

SOURCE: Prague. Ceske vysoke uceni technicke. Prace. Ser. 6, no. 1, pt. 2, 1961, 81-89

TOPIC TAGS: gamma transition, fast neutron, nuclear reaction, aluminum nitride target, deuterium charge, transition probability, ground state, metastable state, cascade diagram

ABSTRACT: Gamma radiation generated during the inelastic scattering of fast neutrons by certain elements was studied in ring geometry. The neutrons were generated from the following reactions on a UJV CSAV cascade accelerator: $D(d,n)He^3$, $N^{14}(d,n)O^{15}$, and $T(d,n)He^4$. Deuteron energies were 200-800 kev. Several types of targets were used. Neutrons of an average energy of 3.1 Mev were generated from the n + D reaction on a gaseous deuterium target, the deuterium charge being separated from the vacuum space by a 1-μ thick nickel foil. Part of the meas-

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urements were made using a zirconium target with adsorbed deuterium or tritium. The $N^{14}(d,n)O^{15}$ reaction was used for energies of around 4.3 Mev, in this case with a target of pressed aluminum nitride. The gamma radiation energy was measured by a single-crystal scintillation spectrometer. The neutron flux was monitored by a scintillator detector with a scintillator from a mixture of ZnS(Ag) and paraffin. It was determined by measurement that the 1,020 kev, 1220 kev, and 1380 kev lines given in the Nuclear Data Sheets as transitions for Te^{127} are, with great probability, transitions for Te^{124} because they were detected even at the termination of radiation. From the point of view of energy it is not possible for the lines to originate from the decay of Te^{127} from the ground state or the metastable state. The 1179 and 574 kev lines are particularly significant and the most accurately measured. Wherever possible it was attempted to construct cascade diagrams. The amplitude analysis was made in several ways: by a single-channel amplitude analyzer with a range from 0 -- 100 v, by a single-channel amplifier for low-input pulses with a range from [illegible] v without a linear amplifier, by a gray-wedge amplitude analyzer, and by a hundred-channel amplifier. Orig. art. has: 9 figures.

L 26371-65

ACCESSION NR: AT4049958

ASSOCIATION: Ceske vysoke uceni technicke, Prague (Higher Technical School)

SUBMITTED: 00 ENCL: 00 SUB CODE: NP

NO REF SOV: 000 OTHER: 000

Card 3/3

LEHAR, Frantisek; PALECKOVA, Jitka; STERBA, Frantisek

Directional scintillation detector for neutrons. Jaderna energie 9 no.5:171-172 My '63.

1. Katedra jaderne fyziky, fakulta technicke a jaderne fyziky, Ceske vysoke uceni technicke.

PALECKOVA, P.; BARTONOVA, M.; FUCHS, A.

Danger from benzene while working with glues for leather. p. 437.

CESKOSLOVENSKA HYGIENA. Praha, Czechoslovakia. Vol. 4, no. 8, Sept. 1959.

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

Uncl.

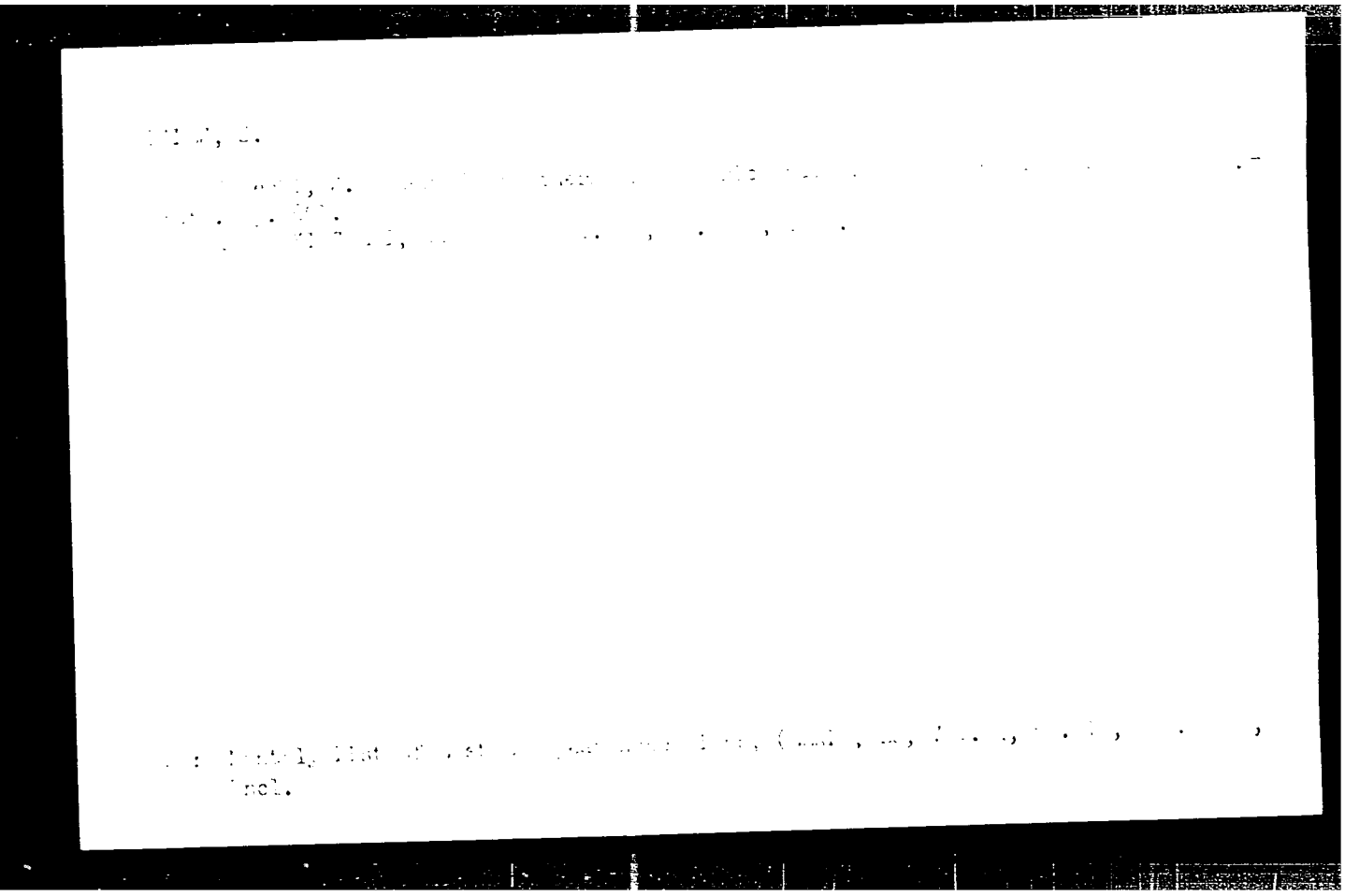
PALECKOVA-VOLFOVA, B.

Once more about mercury. p. 412.

SDELOVACI TECHNIKA. (Ministerstvo strojirenstvi) Praha, Czechoslovakia, Vol 7, no. 11, Nov. 1959.

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

Uncl.



KORVASOVA, Kveta; PALEK, Bohumil

The problem of the searching in automatic dictionary. Stroj na zprac inf 9:151-168. '63.

1. Research Institute of Mathematical Machines, Prague.

BR[illegible] ... BLAHOVA, J.; FRIEDMANN, B.; KOUT, M.; MIRCEVOVA, L.; PALEK, J.; VOPATOVA, M.; VOLEK, V.

Metabolic changes of erythrocytes in autoimmune hemolytic disease. Cas. lek. cesk. 104 no.22:604-605 4 Je '65.

1. Ustav hematologie a krevni transfuze v Praze (reditel: prof. dr. J. Horejsi, DrSc.) a I. interni klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. V. Hoenig, DrSc.).

PALEK, J.; FRIEDMANN, B.; TVAROHA, B.

The pentose phosphate pathway of red cells in hemoblastoses.
Neoplasma 10 no.3:253-259 '63.

1. Institute Medical Clinic, Charles University, Prague and Hematological Laboratory, Public Hospital, Benesov, CSSR.
(CARBOHYDRATE METABOLISM)
(LEUKEMIA, LYMPHOCYTIC)
(RETICULOENDOTHELIOSIS)
(HODGKIN'S DISEASE)
(MULTIPLE MYELOMA)
(LEUKEMIA, MYELOCYTIC)
(BONE MARROW DISEASES)
(ERYTHROCYTES)

PALEK, J.

Drug-induced hemolytic conditions. Cas. lek. cesk. 104 no.22:
592-595 4 Je '65.

1. I. interni klinika fakulty vseobecneho lekarstvi Karlovy
University (predmosta: prof. dr. V. Koenig, DrSc.).

CZECHOSLOVAKIA UDC 616.153(577.158.42.084)-074-035.1

VOLEK, V.; PALEK, J.; 1st Internal Clinic, Faculty of General Medicine, Charles University (I. Interni Klinika Fakulty Vseobecneho Lekarstvi KU), Prague, Chief (Prednosta) Prof Dr V. HOENIG.

"On the Clinical Application of Dehydrogenase Glucose-6-Phosphate."

Prague, Casopis Lekaru Ceskych, Vol 105, No 49-50, 9 Dec 66, pp 1381 - 1383

Abstract [Authors' English summary modified]: Activity of the glucose-6-phosphate dehydrogenase enzyme was investigated in some hematological affections; it seems possible to evaluate the age structure of the blood cells and assess the effective erythropoietic activity of the bone marrow on the basis of activity of the enzyme. In some diseases (renal insufficiency, liver cirrhosis, diabetes, psoriasis) no effect on the enzyme activity could be determined. In decompensated diabetes this enzyme frequently shows low activity. 4 Figures, 6 Western, 6 Czech, 1 East German reference.

1/1

PALEK,J.

Methemoglobinemia, hemolysis and formation of Heinz bodies in the erythrocytes. Cas.lek. cesk. 103 no.3:1-10 17 Ja'64.

1. I. interni klinika fakulty vseobecneho lekarstvi KU v Praze; prednosta: prof.dr. V.Honig, DrSc.

*

U-5

CZECHOSLOVAKIA / General Problems of Pathology. Tumors. Metabolism.

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 46870

Author : Palek, Jiri; Dubovsky, Jiri; Sonka, Jiri.
Inst : Not given
Title : The Human Erythrocytes and the Metabolism of Sedoheptulose in Malignancy.

Orig Pub : Ceskosl. onkol., 1956, 3, No 4, 298-304.

Abstract : When properly aerated erythrocytes (e) of a healthy human being were incubated in glucose, the amount of sedoheptulose (I) increased by 3.5 mg percent after a 3-hour incubation period. In the presence of methylene blue (II) it increased by 6 mg percent. In patients with cancer of the gastrointestinal tract, the increase amounted to 4.2 and 10.2 mg percent, respectively. In the cancer of the mammary gland an increase of (I) is

Card 1/2

CZECHOSLOVAKIA / General Problems of Pathology. Tumors. Metabolism. U-5

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 46870

Abstract : only found when (II) is present (7.6 mg percent). In lung cancer conformity of results was not achieved. In 2 cases of cancer of the thyroid gland and in 8 out of 9 cases of hemoblastoma, the growth of (I) in an E suspension increased. In brain tumors the accretion of (I) is within normal limits. E taken from patients with a hyperfunction of the suprarenal glands produced a large amount of (I) in the presence of glucose alone, or in a combination of glucose with (II). The assumption is made that in cancer of the gastrointestinal tract all ferments of the hexomonophosphatic pathways become activated, and that a displacement of the glucose metabolism occurs which produces a change of the Embden-Meyerhof pathway by becoming an oxidizing hexomonophosphatic one.

Card 2/2

T-3

CZECHOSLOVAKIA/Human and Animal Physiology (Normal and Pathological). Blood. Formed Elements.

Abs Jour : Ref Zhur - Biol., No 16, 1958, 74633

Author : Pulek, Jiri; Sonka, Jiri

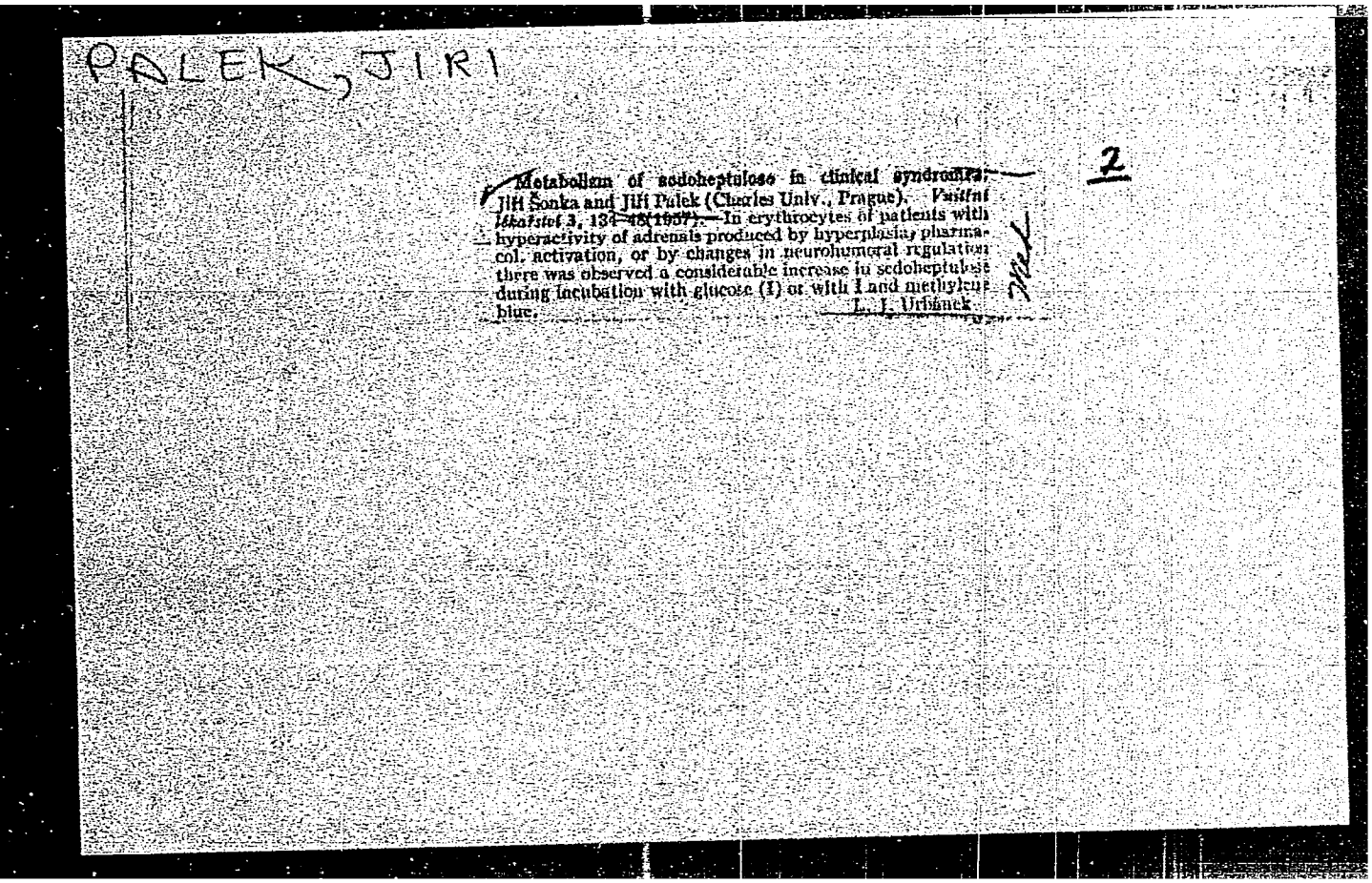
Inst : -

Title : Metabolism of "Sedoheptulosis" in Human Erythrocytes.

Orig Pub : Vnitrni lekarstvi, 1957, 3, No 1, 23-31

Abstract : Sedoheptulosis (S; 2 - ketomannoheptosis) is formed as an intermediate product in the process of decarboxylase oxidation of glucose-6-phosphate in pentose in erythrocytes (E) of mammals and man. The method is described of the detection of S by means of incubation with D-glucose and D-ribose, by colorimetry, and chromotrography. During incubation with a glucose concentration, S increased from the original level of 8 mg% approximately by 3 mg%; colorimetry detected an increase of the concentration by 2 mg%. The addition of methylene blue to the mixture of E with glucose

Card 1/2



PALEK, JIRI

2

Metabolism of sedoheptulose in clinical syndromes. Jiří Šonka and Jiří Palek (Charles Univ., Prague). *Vnitřní lékařství* 3, 134–48(1957).—In erythrocytes of patients with hyperactivity of adrenals produced by hyperplasia, pharmacol. activation, or by changes in neurohumoral regulation there was observed a considerable increase in sedoheptulose during incubation with glucose (I) or with I and methylene blue. L. J. Urbánek

PALEK, M.

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SOV/6246

PHASE I BOOK EXPLOITATION

Soveshchaniye po tseolitam. 1st, Leningrad, 1961.

Sinteticheskiye tseolity; polucheniye, issledovaniye i primeneniye (Synthetic Zeolites: Production, Investigation, and Use). Moscow, Izd-vo AN SSSR, 1962. 286 p. (Series: Its: Doklady) Errata slip inserted. 2500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk. Komisiya po tseolitam.

Resp. Eds.: M. M. Dubinin, Academician and V. V. Serpinskiy, Doctor of Chemical Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P. Golub'.

PURPOSE: This book is intended for scientists and engineers engaged in the production of synthetic zeolites (molecular sieves), and for chemists in general.

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Synthetic Zeolites: (Cont.) SOV/6246

COVERAGE: The book is a collection of reports presented at the First Conference on Zeolites, held in Leningrad 16 through 19 March 1961 at the Leningrad Technological Institute imeni Lensovet, and is purportedly the first monograph on this subject. The reports are grouped into 3 subject areas: 1) theoretical problems of adsorption on various types of zeolites and methods for their investigation, 2) the production of zeolites, and 3) application of zeolites. No personalities are mentioned. References follow individual articles.

TABLE OF CONTENTS:

SOV/6246

Synthetic Zeolites: (Cont.)

PALEKHA, M.[Paliekha, M.]

"Mykola Kybalchych" by V. I. Ivashchenko. Reviewed by M. Paliekha.
Znan. ta pratsia no.10:13 O '62. (MIRA 15:10)

(Kibal'chich, Nikolai Ivanovich, 1854-1881)
(Ivashchenko, V. I.)

87575

S/184/59/000/006/006/006
A104/A026

15.8340 2209

AUTHOR: Palekha, M.V.; Engineer

TITLE: A New Method of Producing Fluoreplastic-4 Linings for Chemical Equipment

PERIODICAL: Khimicheskoye mashinostroyeniye, 1959, No. 6, pp. 45 - 46

TEXT: In the production of concentrated nitric acid, polychlorovinyl linings have been replaced by a polytetrafluoroethylene product called Fluoroplastic-4 whose chemical properties surpass those of gold and platinum. Despite of its chemical suitability, the use of this material presented difficulties because of the limited range of sizes. The "Komsomol'skaya Pravda" Plant in Leningrad and the Kachanovskiy zavod plastmass (Kachanovo Plastics Plant) in Moscow produce pressed Fluoroplastic-4 rings of only 600 mm in diameter with a pressed surface up to 400 cm^2. A production method of Fluoroplastic-4 linings from which gaskets of any dimensions can be obtained, was developed by the Sumskiy mashino-stroitel'nyy zavod im. Frunze (Sum Machine Construction Plant imeni Frunze) and briefly described in this article. Gaskets of 1,250 mm diameter were obtained by spiral cutting of 50 mm linings. The spiral was then heated to 60 - 80°C and coiled in

Card 1/2

87575

S/184/59/000/002/[illegible]/[illegible]
A104/A026

A New Method of Producing Fluoroplastic-4 Linings for Chemical Equipment

a ring of 15 mm according to required diameter. The ends were welded by [illegible] pliers recommended by NIIPM (Scientific Research Institute of Plastics). The lining was heated for 20 - 25 min to 360 - 365°C, held for 3 - 5 min after which the welded end was cooled down to 200 - 210°C, was shaped and water cooled. The elasticity, endurance and corrosion resistance of welded butts was equal to that of the basic material. This type of gaskets is used in columns and [illegible] types of chemical equipment. There are 3 figures.

Card 2/2

PALEKHA, M.V., inzh.

Manufacture of packing plates and materials from tetrafluoroethylene (teflon) for chemical equipment. Khim. mash. no.6:45-46 N-D '59. (MIRA 13:3)

(Packing (Mechanical engineering))

PALEKHA, M.I., kand.med.nauk

Case of neurinoma of the retropharyngeal spaces. Zhur. ush. nos. i gorl. bol. 21 no.4:73-74 Jl-Ag '61. (MIRA 15:1)

1. Kafedry bolezney ukha, gorla i nosa (ispolnyayushchiy obyazannosti zaveduyushchego - dotsent D.Ye.Rozengauz) Khar'kovskogo meditsinskogo instituta.

(NERVOUS SYSTEM--TUMORS) (PHARYNX--DISEASES)

PALEKHA, I. I.

Casuistics of a prolonged stay of a foreign body in the nasal cavity. Zhur. ush., nos. i gorl. bol. 23. no.3:82 My-Je '63. (MIRA 16:7)

1. Iz otorinolaringologicheskogo otdeleniya bol'nitsy shakhty imeni "Izvestiy", g. Krasnyy Luch, Luganskoy oblasti.
(NOSE—FOREIGN BODIES)

PALEKHO, M. [Palekha, M.]

"The future is born today" by V.Gavrilov, G.Dobrov. Reviewed by M.Palekha. Znan.ta pratsia no.4:19 Ap '62. (MIRA 15:4)
(Technological innovations) (Gavrilov, V.) (Dobrov, G.)

PALEKHOV, I.

Effect of temperature on the operation of semiconductor devices.
Radio no.9:20-22 S '60. (MIRA 13:10)
(Semiconductors)

86626

S/107/60/000/006/006/006/XX
E192/E282

9,4310 (3203, 2104, 1143)

AUTHOR: Palekhov, I.

TITLE: High Frequency Transistors

PERIODICAL: Radio, No. 6, 1960, pp. 24-26

TEXT: The frequency characteristics of transistors are primarily dependent on the transit times of current carriers (holes and electrons). These times depend on the width W of the base of a transistor and the velocity of the carriers. The cut-off frequency of a transistor is defined as the frequency at which the gain current α of a transistor falls to 0.7 of its low-frequency value. Another important parameter in a transistor is the maximum oscillation frequency f_M. This is expressed by -

$$f_M = \sqrt{\frac{\alpha . f_\alpha}{30 R_o C_k}}$$

where f_α is the cut off frequency, R_o is the resistance of the base and C_k is the collector capacitance. There are several methods of producing transistors: the alloying, the grown junction

Card 1/2

PALEKHOV, I.

Increase the publication of books on semiconductors. Radio no.5:63 My '61. (MIRA 14:7)
(Semiconductors)

[illegible], N.I., kand.tekhn.nauk; PALEKHOV, O.N., inzh.

Use of electromagnetic sliding clutch in the driving mechanism of universal excavators. Stroi. i dor.mash. 10 no.12:18-20 D '65. (MIRA 19:1)

PALKHOV, R.

By a difficult but glorious path. Grashd.av. 14 no.1:10-11 Ja '57.
(Ivakhnenko, Spartak) (MLRA 10:4)

S/081/62/000/007/031/033
B168/B101

AUTHORS: Vinnitskiy, L. Ye., Litovchenko, M. P., Palekhova, S. G.

TITLE: Heterogeneity of rubber during the plasticizing process

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 7, 1962, 655, abstract 7P317 (Tr. Vseros. n.-i. khim. in-ta prom-sti mestn. podchineniya, no. 8, 1959, 63-71)

TEXT: The heterogeneity of natural rubber and synthetic rubber (СКМС-30 (SKMS-30), СКБМ (SKBM), polyisobutylene) during the plasticizing process was studied. The heterogeneity of natural rubber with regard to plasticity, softness and recovery decreases with rolling. When Captax, Altax, diphenylguanidine and Renacit are introduced the inhomogeneity of the masticated rubber increases. The presence of plasticizers which combine well with rubber (pine tar, spindle oil, petroleum asphalt) helps to reduce the heterogeneity of the masticated rubber. The variation in heterogeneity of SKMS-30 during rolling and heat plasticizing is similar to that of natural rubber. [Abstracter's note: Complete translation.]

Card 1/1

PALEKHOVA, S.G.; KANDIDOVA, Ye.V.

Metal surface preparation in the adhesive method of the hot bonding of rubber. Kauch. i rez. 20 no. 4:56-58 Ap '61.
(MIRA 14:5)

1. Moskovskiy zavod rezino-tekhnicheskikh izdeliy No.1 i Vserossiyskiy nauchno-issledovatel'skiy khimicheskiy institut promyshlennosti mestnogo podchineniya.
(Rubber to metal bonding)

41368

15.8220

S/081/62/000/018/055/059
B168/B186

AUTHORS: Palekhova, S. G., Litovchenko, M. P., Vinitskiy, L. Ye.

TITLE: Activated thermal plastification of natural rubber

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 18, 1962, 559, abstract 18P484 (Tr. Vseros. n.-i. khim. in-ta prom-sti mestn. podchineniya, no. 8, 1959, 72 - 84)

TEXT: 300 g natural rubber in the form of strips measuring 12-15•5•2.5-4 mm were rolled for 2 min laboratory rolls, and additives intensifying thermal plastification were introduced during this process. Thermal plastification were introduced during this process. Thermal plastification was carried out in cabinets heated electrically to 120-160°C. The plasticized rubber, after being left to stand for 3-4 hrs, was homogenized for 2 min and after 2 hrs its plasticity, softness and recovery were determined according to ГОСТ 415-53 (GOST 415-53). The rate of thermal plastification increases rapidly when Captax, Altax, diphenylguanidine, Renapit, dinitrophenylhydrazine or benzoyl peroxide is added to the natural rubber. When 3 parts by weight of mazut, petroleum asphalt, Rubrax, spindle oil or pine tar is

Card 1/2

SOV/81-59-13-47997

Translation from: Referativnyy zhurnal Khimiya, 1959, Nr 13, pp 525 - 526 (USSR)

AUTHORS: Vinitskiy, L.Ye., Palekhova, S.G.

TITLE: On Some Peculiarities of the Vulcanization of Butadienemethylstyrene Rubber SKMS-30

PERIODICAL: Tr. Vseros. n.-i. khim. in-ta prom-sti mestn podchineniya, 1958, Nr 5, pp 48 - 55

ABSTRACT: The processes of structure formation have been studied in unfilled rubbers made of SKMS-30 rubbers (I) during vulcanization in comparison with rubbers made of SKS-30 rubber (II). The course of the changes in the tensile strength, the equilibrium module, the relative lengthening, the degree of swelling with the time of the vulcanization of the rubbers made of I and II, points to the prevailing role of the processes of structure formation in the vulcanization of I rubbers. The destruction process is weaker, but stronger than in rubbers of II. I has a more regular structure than II.

V Glagolev

Card 1/1

PALEKIN, I.S. (Rostov-Yaroslavskiy).

Experience repairing rail tongues. Put' i put. khoz. no.1:37 Ja '57.
(MLRA 10:4)

1. Zamestitel' nachal'nika Rostov-Yaroslavskoy distantsii puti Severnoy dorogi.
(Railroads--Rails)

PALEKIN, I.S. (Rostov-Yaroslavskiy)

Eliminate unsuitable practices. Put i put. khoz. no.2:44 F '57.
(Railroads--Maintenance and repair) (MLRA 10:4)

PALENA, U.S.

Ridding a breeding farm of infectious atrophic rhinitis of swine. Veterinariia 40 no.11:16-17 N '63.

(MIRA 17:9)

1. Direktor Plemennogo svinozavoda imeni Dekabristov, Mirgorodskiy rayon, Poltavskoy oblasti.

PALENCAR, J. ; IVANCO, I.

"Changes in the excitability of mechanic receptors of the respiratory tract from the point of view of ontogeny." p. 289.

CESKOSLOVENSKA FYSIOLOGIE. Praha, Czechoslovakia, Vol. 7, no. 3, May 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, August, 1959. Uncl.

PALENCAR, J.; IVANCO, I.

Irritability changes of the respiratory mechanoreceptors with special reference to ontogenic development. Cesk. fysiol. 7 no.3:289-290 May 58.

1. Fyziologicky ustav LFUK, Kosice.
(RESPIRATORY TRACT, physiol.
mechanical irritability, age factor in animals (Cz))
(AGING, eff.
on resp. mechanical irritability in animals (Cz))

CZECHOSLOVAKIA/Human and Animal Physiology. Respiration. T-6

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55665.

Author : Ivanco, I., Palencar, J.
Inst :
Title : The Sensitivity Differentiation of Manipulative Receptors in Various Segments of the Respiratory Tracts in Cough in Guinea Pigs, Rats, Rabbits, and Dogs.

Orig Pub: Ceskosl. fysiol., 1957, 6, No 3, 459.

Abstract: No abstract.

Card : 1/1

4-60

COUNTRY : Czechoslovakia
CATEGORY :

20746

ABS. JOUR. : RZKhim., No. 5 1960, No.

AUTHOR : Palencar, J.
INST. : Not given
TITLE : Monolithic Floors from Aqueous Emulsions of Synthetic Resins

ORIG. PUB. : Stavba, 5, No 11, [illegible] (1959)

ABSTRACT : A putty has been developed on the basis of an aqueous emulsion of polyvinyl acetate, which can be used as a substitute for parquets. Before the floor is poured over a concrete or other type of base, a preliminary asphaltic coating is applied, after which the putty is poured in place, levelled, and left to dry several days; at the end of the drying period, a second layer may be applied. The final drying takes several weeks. Floors of the type described must be protected

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CARD: 1/1

PALENCAR Zoltan, inz.

Finishing inner surfaces of [illegible] concrete sewer [illegible] with the PVC insulation [illegible] by [illegible]. Ap '65.

1. Research Institute of [illegible], Bratislava.

PALENCAR, Zoltan, inz.; STRIBRANY, Pavel, inz.

Horizontal traffic signs from plastic concrete. Inz stavby 12 no.5: 216-219 My '64.

1. Research Institute of Engineering Construction, Bratislava.

FARSKY,Jiri; KOMENDA, Stanislav; POSPISIL, Edvard; SCHOBER, Bruno; SPITALSKY, Jiri; Techn. assistance:JANKOVA,E; KUBICOVA.M.; PALENCAROVA,V.: SOLCOVA,V.

Electroshock seizures in rat after X-irradiation. Sborn. ved.prac.lek.fak.Karlov.Univ.(Hrad.Kral.) 6 no.1:77-80 '63.

1. Institute of Medical Physics, Palacky University, Olomouc; head: CSc,doc.Bruno Schober, M.D.

HUNGARY/Human and Animal Physiology - Metabolism.

Abs Jour : Ref Zhur Biol., No 3, 1959, 12452

Author : Kelemen, Laszlo; Horvath, Endre; Palencsar, Antal; Bodo, Ilona; Hadhazy, Csaba

Inst :

Title : Action of Vitamin B_{12} on Intermediary Metabolism of Carbohydrates in Scarlatina

Orig Pub : Rev. med. (RPR), 1957, 3, No 5, 40-43

Abstract : No abstract.

Card 1/1

PALENCSAR, A (MD)

.ROMANIA

SZEKELY, P., MD; PALENCSAR, A., MD; [illegible], A., MD; [illegible], Xenia, MD.

Clinical Hospital for Contagious Diseases in Tirgu Mures (Spitalul clinic de boli contagioase din Tg. Mures) - (for all)

Bucharest, Viata Medicala, No 1, 1 Jan 64, pp 19-26

"Observations in Connection with 74 Cases of Acute Liver Dystrophy as a Consequence of Epidemic Hepatitis."

(4)

PALENCSAR, A., dr.; LECHINTAN, M., dr.; SERBAN, T., dr.; MAKAI, Margareta; KASZA, L., dr.

Chronic jaundice with conjugated bilirubin of the Rotor type. Considerations on a clinical case. Med. intern. (Bucur) 17 no.2:233-235 F'65.

1. Lucrare efectuata in Clinica de boli infectioase Institutul medico-farmaceutic, Tirgu mures (director: prof. L. Kelemen).

KASZA,L., dr.; candidat in stiinte medicale; PALENCSAR, A., dr.; NEMES,A.,dr.; LORINCZ,P., dr.; SZILAGYI,D.dr.; MAKAI, M.; SZABO,G.

Serum glutamic-pyruvic transaminase as a functional test in epidemic hepatitis. Med. intern. 16 no.1:87-96 Ja'64

1. Lucrare efectuata in Clinica de boli infectioase I.M.F. Tirgu Mures (conducator: prof.L.Kelemen).

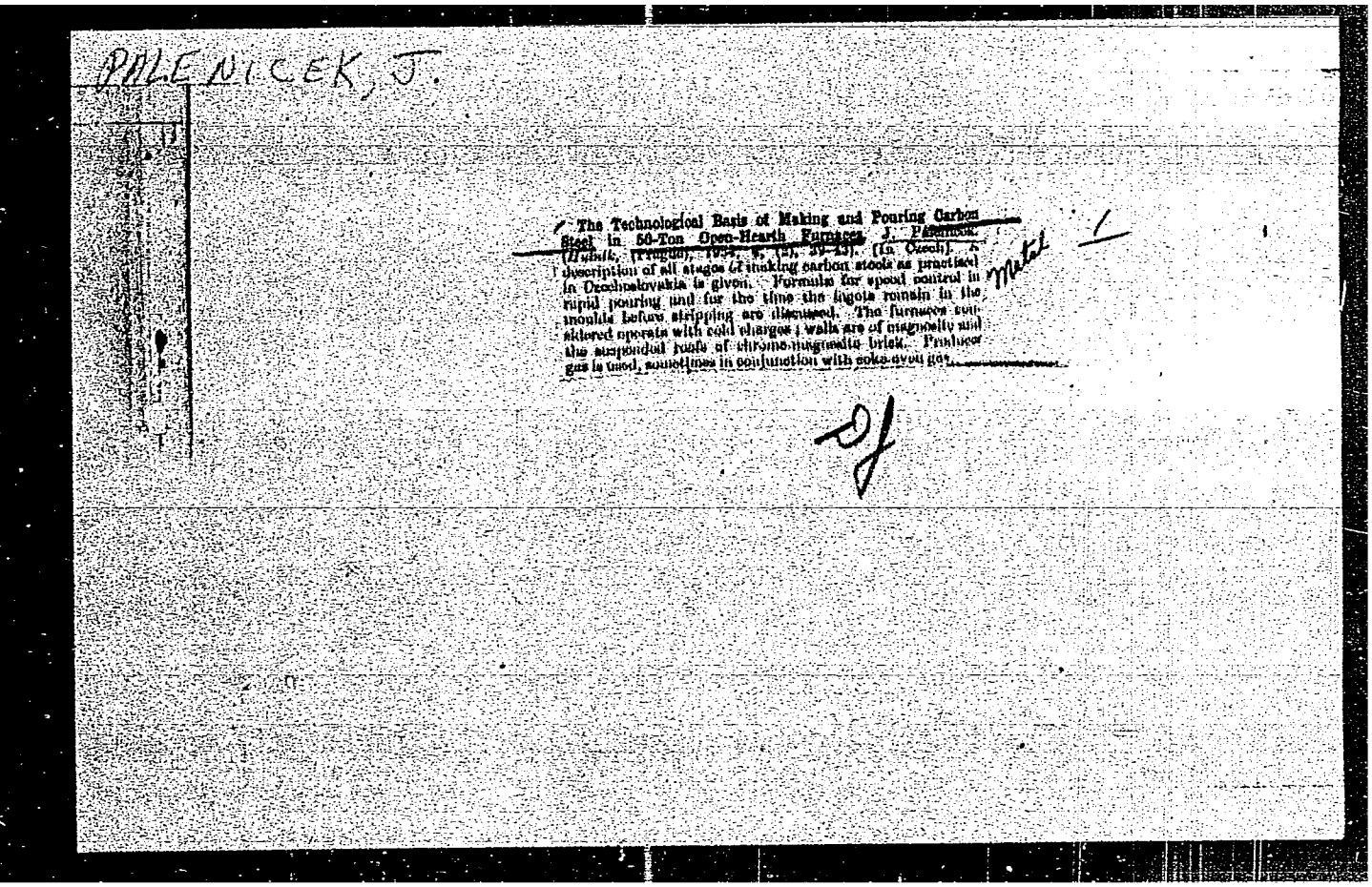
KASZA, L.; PALENESAR, A.; MAKAI, M.

The practical value of transaminasaemia determinations in epidemic hepatitis. Rumanian M Rev. no.2:21-23 Ap-Je '60.
(HEPATITIS, INFECTIOUS diagnosis) (TRANSAMINASES blood)
(LIVER FUNCTION TESTS)

PALENCOF, Yu.

We are improving the electric power system of the city of Nizhniy-Tagil. Zhil.-kom.khoz. 9 no.12:15-16 '59. (MIRA 13:4)

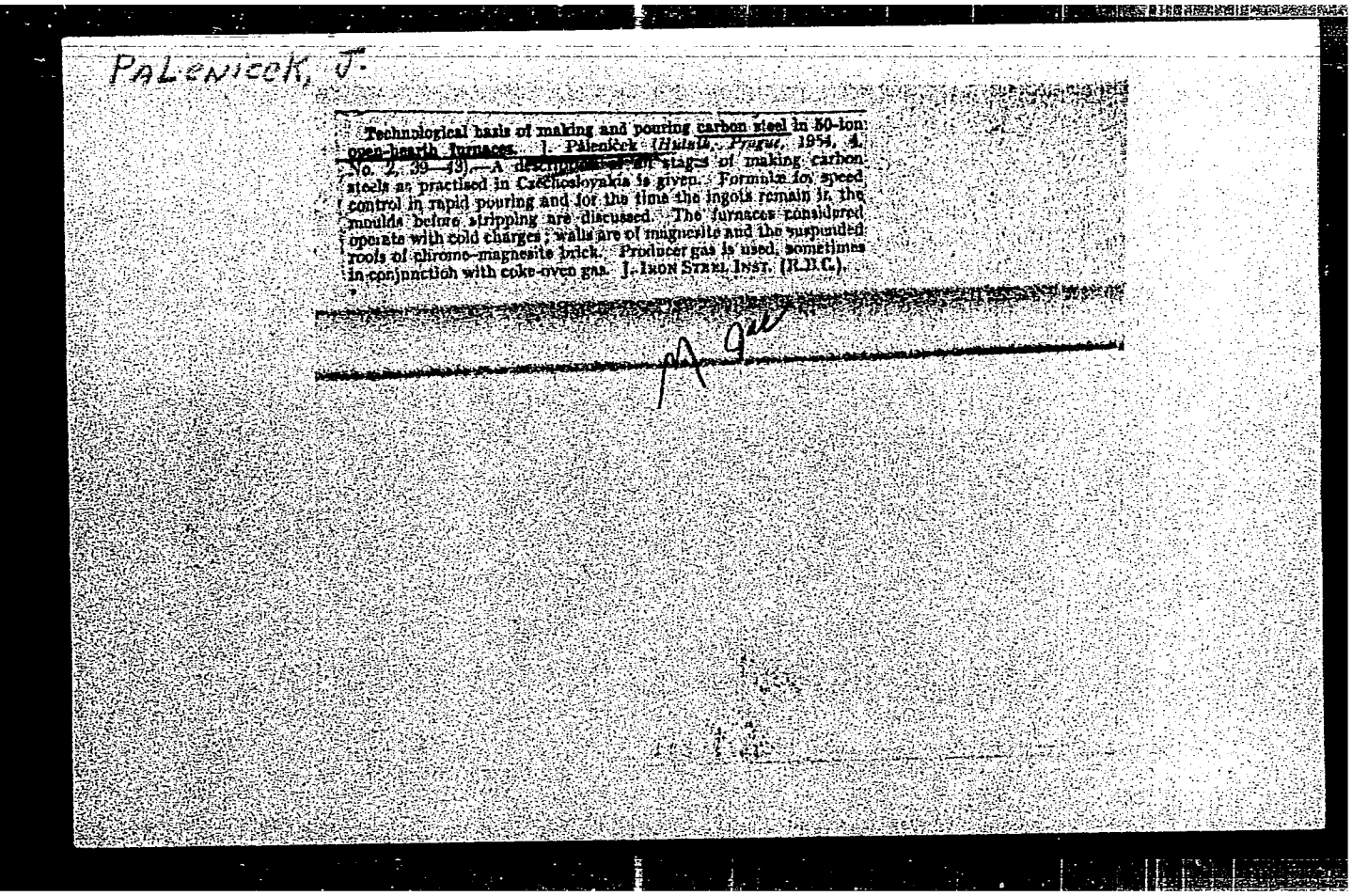
1. Direktor elektroseti, g.Nizhniy Tagil.
(Nizhniy-Tagil--Electric power distribution)



PALENICEK, J.

The Technological Basis of Making and Pouring Carbon Steel in 50-Ton Open-Hearth Furnaces. J. Palenicek. (Hutnik, (Prague), 1954, V, (12), 39-43). (In Czech). A description of all stages of making carbon steels as practised in Czechoslovakia is given. Formulæ for spout control in rapid pouring and for the time the ingots remain in the moulds before stripping are discussed. The furnaces considered operate with cold charges; walls are of magnesite and the suspended roofs of chrome-magnesite brick. Producer gas is used, sometimes in conjunction with coke-oven gas.

Metal



PALENICEK, J.

Technological basis of making and pouring carbon steel in 50-ton open-hearth furnaces. J. Palenicek (*Hutník, Prague*, 1954, 4, No. 2, 39—43).—A description of the stages of making carbon steels as practised in Czechoslovakia is given. Formulæ for speed control in rapid pouring and for the time the ingots remain in the moulds before stripping are discussed. The furnaces considered operate with cold charges; walls are of magnesite and the suspended roofs of chromo-magnesite brick. Producer gas is used, sometimes in conjunction with coke-oven gas. J. Iron Steel Inst. (R.D.C.).

CZECHOSLOVAKIA/Chemical Technology. Chemical Products. Water Treating. Sewer Water. H-5

Abs Jour : Ref Zhur - Khimiya, 1958, No 22, 74384

Author : Strecha M., Jelonicek O.
Inst : Not Given
Title : Photometrical Determination of Water Turbidity

Orig Pub : Ceskosl. hyd., 1958, 3, No 1, 36-41

Abstract : A schematic diagram of a turbidity meter is presented. Water turbidity measurements determined by various methods are compared.

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PALENICHKA, M.A. [Palenychka, M.A.]

A boundary problem for a quasi-linear elliptical system of differential equations of the second order. Dop.AN URSR no.5: 576-581 '60. (MIRA 13:7)

1. L'vovskiy gosudarstvennyy pedagogicheskiy institut. Predstavleno akademikom AN USSR B.V.Gnedenko [B.V.Hniedenko].
(Differential equations)

26446
S/021/60/000/004/002/010
D232/D305

16.4600

AUTHOR: Palenychka, M.A.

TITLE: Full continuity of one operator and its application

PERIODICAL: Akademiya nauk Urayins'koyi RSR. Dopovidi, no. 4, 1960, 426 - 431

TEXT: The author considers an operator $A(x, \frac{\partial}{\partial x})$ which is a linear matrix differential operator of the second order and elliptic type, of the form

$$A\left(x, \frac{\partial}{\partial x}\right) = \sum_{i,j=1}^{n} A_{ij}(x) \frac{\partial^2}{\partial x_i \partial x_j} + \sum_{i=1}^{n} A_i(x) \frac{\partial}{\partial x_i} + A(x). \qquad (I)$$

where the $A_{ij}(x)$, $A_i(x)$ $(i,j = 1, 2, \ldots, n)$, $A(x)$ are given square functional matrices of order p, which are defined and sufficiently smooth in some region D_1 of n-dimensional Euclidean space,

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Full continuity of one ...

and for some non-zero real point ($\xi = \xi_1, \xi_2, \ldots, \xi_n$) and for every $x \in D_1$

$$\det \sum_{i,j=1}^{n} A_{ij}(x)\, \xi_i \xi_j \neq 0.$$

D is a convex region with boundary S, where S is a doubly smooth surface, $\bar{D} \subset D_1$. $B(x, \frac{\partial}{\partial x})$ is a linear matrix differential operator of the first order, i.e.

$$B\left(x, \frac{\partial}{\partial x}\right) = \sum_{i=1}^{n} B_i(x) \frac{\partial}{\partial x_i} + B(x), \qquad \text{(II)}$$

where the $B_i(x)$ (i = 1, 2, ..., n), $B(x)$ are given square matrices of order p, defined and continuous in the Helder sense on S. L denotes a class of functional column-vectors which have continuous

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first-order derivatives in the closed region $\overline{D}$ [Abstractor's note: $\overline{D}$ is wrongly written as D in the text], and second-order derivatives generalized in the sense of S.L. Sobolyev in the region D. The following boundary condition is considered: for a given continuous functional column-vector f(x) and some w(x) ,

$$A(x, \frac{\partial}{\partial x})\, w(x) = f(x) \qquad (1)$$

in D, and

$$B(x, \frac{\partial}{\partial x})\, w(x)/_S = 0 \qquad (2)$$

on S. It is assumed that for conditions (1) and (2) the regularization conditions of Ya.B. Lopatyns'kyy are applied:

$$\operatorname{rank} \int_{+} \sum_{i=1}^{n} B_i(y)(\tau_i + \lambda \cdot \nu_i) \cdot A_0^{-1}(y, \tau + \lambda \cdot \nu) \cdot (E, \lambda E)\, d\lambda = p,$$

where

$$A_0^{-1}(y, \tau + \lambda \nu) = \left[\sum_{i,j=1}^{n} A_{ij}(y)(\tau_i + \lambda \cdot \nu_i)(\tau_j + \lambda \cdot \nu_j) \right]^{-1},$$

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Full continuity of one ...

where «+» denotes a contour lying in the upper λ-half-plane and containing all λ-roots of $\det A_0(y, \tau + \lambda \cdot \nu) = 0$, $y \in S$, $\nu = \nu(y)$ is a unit vector normal to S at the point y; $(\tau, \nu) = 0$. Ω_0 is the set of those vectors in Ω which satisfy (2). L is a linear operator which transforms from the space C_1 into the space c, which coincides with the operator (I) and is defined on Ω_0, then the boundary conditions (1) and (2) are equivalent $Lw = f$, $w \in \Omega_0$, $f \in C$. Theorem 1 is proved which states: If the boundary conditions (1) and (2) have a single solution for some right part $f \in C$, then the operator L^{-1} which transforms from C into C_1 is fully continuous. The following lemmae are proved: Lemma 1: The functional column-vector

$$v(x) = \int_D (n) \int \varphi(x, y) \cdot f(y) dy \qquad (4)$$

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Full continuity of one ...

and all its first-order partial derivatives satisfy the Helder conditions in $\bar{D}$. The functional column-vector (2) and all its first-order partial derivatives satisfy the Helder conditions in $\bar{D}$. The proof is based on these lemmae. The following boundary problem is considered: $w(x)$ is a functional column-vector, $w \in \Omega$, which satisfies (2) on S and

$$A(x, \frac{\partial}{\partial x})\, w(x) = F(x, w, \partial w), \qquad (12)$$

where $F(x, w, \partial w)$ is a given functional column-vector of its arguments and ∂w denotes all first-order derivatives of w with respect to x. (2) and (12) may be replaced by $\varphi = P\varphi$, (13), where the operator $P\varphi = F(x, L^{-1}\varphi, \partial L^{-1})$. Lemma 3: If the functional column-vector $F(x, u, v)$ is continuous with respect to the totality of variables x, u, v, $x \in \bar{D}$, $/u/, /v/ \leq a$, then the operator F acts in the space and is fully continuous in some sphere $K(/\varphi/ \leq \rho)$ of this space. Theorem 2: Let the functional column-vector F satisfy the conditions: 1) F is continuous with respect to the totality of

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Full continuity of one ...

variables x, u, v, defined as above, a = const; 2) $\max_{x\in\bar{D}/u/,/v/\leq a} /F(x,$ $u, v/ \leq p_1/u/ + p_2/v/$, where p_1 and p_2 are sufficiently small numbers that $p_1/L^{-1}/ + p_2/L^{-1}/ = q < 1$. Then (13) has a solution in K.

Theorem 3: Let $F(x, u, v) = \mu \circ f(x, u, v)$, where $f(x, u, v)$ is a functional matrix continuous with respect to the totality x, u, v, defined as above. Then for

$$/u/ < \frac{\rho}{\max_{x\in\bar{D}/u/,/v/\leq a} /f(x, u, v)/}$$

has (13) a solution in K. Theorem 4: Let the functional column vector $F(x, u, v)$ satisfy the following conditions, 1) F is continuous with respect to the totality x, u, v, defined as above, 2) $\max_{x\in\bar{D}/u/,/v/\leq a} /F(x, u_1, v_1) - F(x, u_2, v_2)/ \leq q(/u'/, /v'/) \cdot (/u_1 - u_2/ + /v_1 - v_2/)$ where $\lim_{\rho, \rho_1 \to 0} q(\rho, \rho_1) = 0$; 3) $\max_{x\in\bar{D}/u/,/v/\leq a} /F(x, u, v)/ \leq \mu(/v/ + \nu(/u/))/u/$,

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Full continuity of one ...

where $\lim_{\rho_1 \to 0} \mu(\rho_1) = 0$, $\lim_{\rho \to 0} \nu(\rho) = 0$. Then (13) has a single solution in some neighborhood of zero. In conclusion the author expresses his thanks to A.I. Vol'pert. There are 4 Soviet-bloc references.

ASSOCIATION: L'vivs'kyy derzhavnyy pedahohichnyy instytut (L'viv State Institute of Pedagogy)

PRESENTED: by Academician AS UkrSSR, B.V. Gnyedenko

SUBMITTED: June 7, 1960

Card 7/7

S/021/60/000/005/002/015
D210/D304

AUTHOR: Palenychka, M.A.

TITLE: A boundary problem from a quasi-linear elliptical system of differential equations of the second order

PERIODICAL: Akademiya nauk ukrayins'koyi RSR.Dopovidi, no. 5, 1960, 576-581

TEXT: A matrix non-linear differential operator of the second order and elliptic type is defined by

$$A^{(\varepsilon)}\left(x, w, \frac{\partial}{\partial x}\right) = \sum_{i,j=1}^{n} A_{ij}^{(\varepsilon)}(x, w) \frac{\partial^2}{\partial x_i \partial x_j} + \sum_{i=1}^{n} A_i^{(\varepsilon)}(x, w) \frac{\partial}{\partial x_i} + A^{(\varepsilon)}(x, w), \quad (1)$$

where the functions $A_j^{(\varepsilon)}(x,w)$, $A_i^{(\varepsilon)}(x,w)$ ($i,j = 1,2, \ldots,n$), $A^{(\varepsilon)}(x,w)$ are given quadratic functional matrices of order p, ε is a real parameter and

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A boundary problem from a...

$$A_{ij}^{(\varepsilon)}(x,w) = A_{ij}(x) + \varepsilon \widetilde{A}_{ij}(x,w), A_i^{(\varepsilon)}(x,w) = A_i(x) + \varepsilon \widetilde{A}_i(x,w),$$
$$(i,j = 1,2,\ldots,n).$$

$$A^{(\varepsilon)}(x,w) = A(x) + \varepsilon \widetilde{A}(x,w), \text{ тобто } A^{(\varepsilon)}\left(x,w,\frac{\partial}{\partial x}\right) =$$
$$= A\left(x,\frac{\partial}{\partial x}\right) + \varepsilon \widetilde{A}\left(x,w,\frac{\partial}{\partial x}\right).$$

$x = (x_1, x_2, \ldots, x_n)$ is defined in some n-dimensional Euclidean space D_1, and $w = \begin{pmatrix} w_1 \\ w_p \end{pmatrix}$ is a variable in all p-dimensional Euclidean space. It is supposed that the coefficients of (1) are sufficiently smooth with respect to x, continuously differentiable with respect to w, and that for some x^1, x^2, w^1, w^2,

$$\left| \frac{\partial \widetilde{A}_{ij}^{kl}(x^1,w)}{\partial w}\Big|_{w=w^1} - \frac{\partial \widetilde{A}_{ij}^{kl}(x^2,w)}{\partial x}\Big|_{w=w^2} \right| \quad C \quad x^1 - x^2 \quad w^1 - w^2 \quad ;$$

C = const,

(i, j, -1, ...n; k, ℓ = 1,....,p.) The matrix linear differential operator of the first order $B(x, \frac{\partial}{\partial x})$ is defined by

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A boundary problem from a ...

$$B\left(x, \frac{\partial}{\partial x}\right) = \sum_{i=1}^{n} B_i(x) \frac{\partial}{\partial x_i} + B(x), \qquad \text{(II)}$$

$B_i(x)$, $(i=1,2,\ldots,n)$, $B(x)$ are given quadratic functional matrices of order p, continuous in the Helder sense, defined on the surface S. (S is a double smooth surface, bounding a convex region D_1 of n-dimensional Euclidean space, $D \subset D_1$). The linear boundary conditions are Eqs. 1 and 2

$$A\left(x, \frac{\partial}{\partial x}\right) w(x) = f(x), \quad x \in D, \qquad (1)$$

$$B\left(x, \frac{\partial}{\partial x}\right) w(x)\Big|_S = 0 \qquad (2)$$

and it is supposed that there is a unique solution w_0 for any right part $f \in C$ in the class of functional column-vectors $\mathfrak{L}$, which have continuous first derivatives in the closed region $\bar{D}$ and second generalized derivatives (in the sense of S.L. Sobolyev) in the region D. The quasi-linear problem is then

$$A^{(\varepsilon)}\left(x, w, \frac{\partial}{\partial x}\right) w(x) = f(x) \qquad (3)$$

in the region D, and on the boundary S satisfies (2). The existence

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and uniqueness of the solution of this problem is proved by the method of continuous motion along the parameter. It is noted that the application of this method to the case of Dirichlet's problem and a single equation is described by S.S. Dymkov, (Ref. 1: DAN SSSR, 115,228, /1957/). Replacing (2) and (3) by a more general boundary problem with real parameter t, $t \in [0,1]$ gives in D, $A^{(\varepsilon)}\left(x,tw,\frac{\partial}{\partial x}\right) w(x) = f(x)$ (4)

and satisfies (2) on S. K_1 denotes a sphere in C_1 [Abstractor's note: C_1 is not defined] with center at zero and radius $\rho = /w_0/C_1 + \delta_0$ where δ_0 is some sufficiently small positive number. Consideration of the linear boundary problem corresponding to (4) and (2) gives the following result: For a given continuous functional column-vector f(x) and some w from K_1 where is a functional column vector W(x) from the class Ω, which satisfies (2) on S and $A^{(\varepsilon)}\left(x,tw,\frac{\partial}{\partial x}\right) W(x) = f(x)$ (5) in D. By applying the method of continuous motion along the parameter (Lere and

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Schauder's method) the following results are derived. Theorem 1: For sufficiently small ε the boundary problem (5) and (2) has a unique solution which lies in K_1. Lemma 1: The operator $A^{(\varepsilon)}_t w$ is uniformly continuous with respect to t, $t \in [0,1]$ in C_1. Lemma 2: The operator $A^{\varepsilon}_t w$ is uniformly continuous with respect to w, $w \in K_1$, in C_1. Hence, Theorem 2: The operator $A^{(\varepsilon)}_t w$ is compact with respect to w in C_1. [Abstractor's note: $A^{(\varepsilon)}_t w$ is written as $A^{(\ )}_t w$ in the text]. Theorem 3: The boundary conditions (2) and (3) have a unique solution for a given right part $f \in C$. The author concludes by thanking A.I. Vol'pert for his assistance. There are 6 Soviet-bloc references.

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USSR / General Biology. General Hydrobiology.

Abs Jour : Ref Zhur - Biol., No 12, 1958, No 52476

Author : Palenichko, Z. G.; Timkova, M. N.
Inst : AS USSR
Title : Hydrobiological Characteristics of the Kuz Bay on the White Sea Coast.

Orig Pub : Materialy po kompleksn. izuch. Belogo moryа. I. M.-L. AN SSSR, 1957, 381-390.

Abstract : A short description of bay hydrobiology; characteristics of the varietal composition and distribution of zooplankton, phyto- and zoobenthos; qualitative data on the feeding of polar and river flounder, navaga, arctic stickleback, and whitefish, and also a short survey of the fish industry and of sea botton flora. -- N. I. Kashkin.

Card 1/1

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(White Sea--Fishes)

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USSR/Marine Biology May 195?
Oceanography

"The Presence of Nereis virens in the White Sea," ... Annenkova, Z. G. Palenichko, 3 pp

"Priroda" No 5

Report of discovery of Nereis virens along the ... coast of the White Sea. Of great interest in determining fauna of the sea, as occurrence of Nereis virens in the White Sea is extremely rare.

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Univ. [illegible]

"[illegible] properties of [illegible],"

Zool. [illegible], 27, [illegible], 194[illegible].

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[Atlas of scientific elements of a fishery map of Onega Bay, White Sea] Atlas nauchnykh osnov rybopromyslovoi karty Onezhskogo zaliva Belogo moria. Moskva. Pt.1. 1959. 51 p. (MIRA 13:1)

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