PAGON, Stojan, sanitetski pukovnik dr.; RAJCIC, Aleksandar, sanitetski kapetan I klase mr.ph.; MIJATOVIC, Veselin, sanitetski kapetan I klase dr.

Factors contributing to the incidence of seasonal dysenteric enterocolitis. Vojnosanit. pregl. 22 no.6:416-422 Je '65.

1. Higijensko-epidemioloski odred Split, Klinicki laboratorij Split.

PAGON, Stojan, Major dr.

Occurence of dysentery on a war-ship. Voj. san. pregl., Beogr, 13 no.7-8:369-374 July-Aug 56.

1. Higijenski institut JRM.
(DYSENTERY, epidemiology,
water-borne epidemic in naval personnel in Yugosl. (Ser))
(SAILORS,
water-borne epidemic of dysentery in naval personnel in Yugosl. (Ser))

GERBEC, Mirol MORELJ, Marijan; PAGON, Stojan

Low antibody titres in the complement fixation test; a specific tool in the epidemiology of Q fever. J. Hyg. Epidem., Praha 2 no.4:395-403 1958.

1. Military Medical Academy, Belgrade, Yugoslavia (for Gerbec).
(Q FEVER, diagnosis,
complement fixation test, low antibody titer)
(COMPLEMENT,
fixation test in Q fever, low antibody titer)

PAGONY, H.

"Formation of a false kernel in summer cuttings." p. 111

ERDESZETTUDOMANYI KOZLEMENYEK. Erdomernoki Foiskola. Az Erdomernoki Foiskola Kozlemenyei Sopron, Hungary, 1955.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959
Uncl.

PAGONY, H.

Formation of false sapwood on estival cuttings. II. p. 97.
(AZ ERDOMERNOKI FOISKOLA KOZLEMENYEI, No. 1, 1956. Sopron, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 9, Sep. 1957. Uncl.

PAGONY, H.

Formation of flase sapwood on estival cuttings. III. Cutting experiments with stored, freshly-cut cuttings treated with 2, 4-Dichlorophenoxyacetic acid. p. 103.
(AZ ERDOMERNOKI FOISKOLA KOZLEMENYEI, No. 2, 1956. Sopron, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 9, Sep. 1957. Uncl.

PAGONY, Hubert, dr.

"Silviculture" by Janos Gyorfi. Reviewed by Hubert Pagony. Erdo 12 no.11:526-528 N '63.

1. Erdeszeti Tudomanyos Intezet tudomanyos osztalyvezetoje, Sopron.

PAGONI, Hubert, dr., tudomanyos osztalyvezeto

Remark about the paper by Rezso Vamos and Laszlo Vida entitled "Application of stimulators in forcing poplar cuttings." Erdo 12 no.5:229-230 My '63.

1. Erdeszeti Tudomanyos Intezet, Sopron.

IGMANDY, Zoltan, dr.; PAGONY, Hubert, dr.

Data on the life of Lyctus linearis Goeze. Faipar 12 no.6:190-192 Je '62.

1. Erdomernoki Foiskola es Erdeszeti Tudomanyos Intezet.

PAGONY, Hubert, dr.

Evaluation of the 1963 data of the national observation and marking service for forest protection and damages to be expected in 1964. Erdo 13 no. 2: 60-66 F '64.

1. Erdeszeti Tudomanyos Intezet tudomanyos osztalyvezetoje, Sopron.

PAGONY, Hubert, dr., a biologiai tudomanyok kandidatusa; SZONTAGH, Pal, dr.

The Council for Economic Mutual Assistance conference on forest protection in Bucharest.

1. Erdeszeti Tudomanyos Intezet osztalyvezetoje, Sopron (for Pagony). 2. Erdeszeti Tudomanyos Intezet erdovedelmi allomasanak vezetoje, Sopron (for Szontagh).

KAIMAR, Zoltan, dr.; PAGONY, Hubert, dr.

Remarks on Laszlo Szemere's study entitled "Some words on the relationship between trees and fungi." Erdo 11 no.7:329-330 Jl '62.

1. Erdeszeti Tudomanyos Intezet tudomanyos munkatarsa, kiserleti erdeszet, Ugod. (for Kalmar). 2. Erdeszeti Tudomanyos Intezet kiserleti allomasanak tudomanyos osztalyvezetoje, Sopron. (for Pagony).

IGMANDY, Zoltan, dr., egyetemi docens (Sopron); PAGONY, Hubert, dr.

Dangerous fungi perilous to white and grey poplars in Hungary. Erdo 14 no.1:19-25 Ja '65.

1. Scientific Division Chief, Scientific Institute of Forestry, Sopron (for Pagony).

PAGORSKI, Tadeusz, ppłk.

Modernization of the piston of the "FSO" motorcycle and "Warszawa" automobile. Motor 11 no.31:4 5 Ag '62.

GRZEDA, Wieslaw, PAGOWSKA, Joanna, ROSNOWSKI, Andrzej.

A case of aneurysm of the aorta with rupture into the right bronchus
Polskie arch.med.wewn. 28 no.2:245-251 1958

1. Z I Kliniki Chorob Wewnetrznych A.M. Kierownik: prof dr nauk med. A. Biernacki i z Zakladu Anatomii Patologicznej A.M. w Warszawie Kierownik: prof. dr nauk med. L.Paszkiewicz. Adres autora: W-wa I Klinika Chor. Wewn., A.M. Nowogrodzka 59.

(AORTIC ANEURYSM, rupture
into right bronchus, syphilitic case (Pol))
(SYPHILIS, CARDIOVASCULAR, complications
aortic aneurysm with rupt. into right bronchus (Pol))

PAGOWSKA-WAWRZYNIAK, J.

Rheumatism in school-age children. Polski tygod. lek. 5:10, 6 Mar. 50. p. 399

CLML 19, 5, Nov., 1950

PĄGOWSKA-WAWRZYŃSKA, J.

"O chorobie reumatycznej u dzieci" (About rheumatical fever at children), by J. Pągowska-Wawrzyńska. Reported in New Books (Nowe Książki), No. 11, June 1, 1956.

PAGOWSKA-WAWRZYNSKA, Jadwiga

Painfulness of the elbow bone head as one of the first clinical symptoms of rheumatoid arthritis. Postepy reumat. no.3:44-48 1957.

1. Z Panstwowego Instytutu Reumatologicznego w Warszawie. Dyrektor: prof. dr El. Reicher.

(ARTHRITIS, RHEUMATOID, manifest.
pain of elbow bone head as one of first clin. signs. (Pol))
(ELBOW, in various dis.
rheum. arthritis, pain of elbow bone head as one of first clin. signs (Pol))

EXCERPTA MEDICA Sec.6 Vol.12/4 Internal Med. April 58

PAGOWSKA-WAWRZYNSKA, J.

2226. OSTEO-ARTICULAR LESIONS IN THE COURSE OF PULMONARY DISEASES - Zmiany kostno-stawowe w przebiegu chorób płucnych - Pągowska-Wawrzyńska J. Państ. Inst. Reumatol., Warszawa - POL. ARCH. MED. WEWNĘT. 1957, 27/3 (349-357)

A description is given of 4 cases connected with pulmonary tumour in which the signs of osteo-arthropathy suggest a diagnosis of pulmonary neoplasm. The author draws attention to the incomplete forms of the syndrome: both the interpretation and the main theories regarding the pathogenesis of Pierre Marie's pulmonary osteo-arthropathy are briefly stated. If the osteo-arthropathy is accompanied by arthralgia this is due to malignancy and rarely to suppurative or tuberculous disease. Since the vagus nerve plays an important role in the osteo-arthropathy the author proposes to sever the vagus nerve on the side of the affected lung (in cases of inoperable carcinoma) and in other cases perform a resection of the lung.

Dobrowolski - Warsaw (XV, 5, 6, 16)

Nauka roleka, no. 4, 1964, p

PAGOWSKA-WAWRZYNSKA, Jadwiga; DZULYNSKA, Janina

Effect of therapy on the level of sialic (N-acetylneuraminic) acid in the blood serum of patients with rheumatoid arthritis. Pol. tyg. lek. 17 no.43:1659-1662 22 D '62.

1. Z Wojewodzkiej Przychodni Reumatologicznej w Warszawie; dyrektor: dr med. H. Znajewska-Zarembina i z Instytutu Biochemii i Biofiziki PAN, dyrektor: prof. J. Heller.

(ARTHRITIS RHEUMATOID) (NEUMAMINIC ACIDS)

DZULYNSKA, Janina; PAGOWSKA-WAWRZYNSKA, Jadwiga.

Neuraminic acid in rheumatic diseases. Polskie arch.med. wewn. 28 no.3:329-343 1958.

1. Z Panstwowego Instytutu Wenerologii i Dermatologii Dyrektor: doc. dr med. J. Suchanek oraz z Panstwowego Instytutu Reumatologicznego Instytutu Reumatologicznego. Dyrektor: prof. dr med. E. Reicher. Adres autora: Podkowa Lesna, ul. Sosnowa 21.

(RHEUMATISM, blood in
neuraminic acid content (Pol))
(AMINO, ACIDS, in blood
neuraminic acid in rheum. dis. (Pol))

PAGOWSKA-WAWRZYNSKA, Jadwiga

Principles for the hormonal therapy of rheumatoid arthritis according to our observations. Reumatologia (Warsz.) 1 no.2:95-101 '63.

1. Z Instytutu Reumatologicznego w Warszawie (Dyrektor: dr med. W. Bruhl).

PAGOWSKA-WAWRZYNSKA, Jadwiga

Review of therapeutic methods used in primary chronic rheumatism and in ankylosing spondylitis. Polskie arch. med. wewnetrz. 24 no.4a:649-680 1954.

1. Z Panstwowego Instytutu Reumatologicznego. Dyrektor: prof. dr E.Reicher.

(SPONDYLITIS, ANKYLOSING, therapy.)
(ARTHRITIS, RHEUMATOID, therapy.)

BRUHL, Wlodzimierz, dr; PAGOWSKA-WAWRZYNSKA, Jadwiga, doc. dr

The activities of the Institute of Rheumatology. Review Pol Academy 9 no.4:55-58 O-D '64.

1. Director, Institute of Rheumatology, Warsaw (for Bruhl).
2. I Rheumatological Ward of the Institute of Rheumatology, Warsaw (for Pagowska-Wawrzynska). Submitted August 1964.

PAGOWSKA-WAWRZYNSKA, Jadwiga

Osteoarticular changes in pulmonary diseases. Polskie arch. med. wewn. 27 no.3:349-357 1957.

1. Panstwowego Instytutu Reumatologicanego w Warszawie Dyrektor: prof. dr. med. E. Reicher. Adres autora: Warszawa, ul. Marszalkowska 18.

(OSTEOARTHROPATHY HYPERTROPHIC PULMONARY, case reports, (Pol))

PAGOWSKA-WAWRZYNSKA, Jadwiga; SADOWSKA, Maria

Fragilitas ossium. Polskie arch. med. wewn. 26 no.5: 789-794 1956.

1. Z Panstwowego Inst. Reumatol. w Warszawie Dyrektor: prof. dr. med. E. Reicher, Warszawa, ul. Marszalkowska 18.
(OSTEOGENESIS IMPERFECTA, case reports, (Pol))

PAGOWSKA-WAWARZYNSKA, Jadwiga, Dr med.

Eosinophils in rheumatoid arthritis following quartz and sollux lamps irradiation with simultaneous intravenous administration of vitamin C. Postepy reumat. no.1:114-125 1954.

1. Z Panstwowego Instytutu Reumatologicznego Dyrektor: prof dr E. Reicher.

(ARTHRITIS, RHEUMATOID, therapy,
infrared & ultraviolet rays with vitamin C, eff. on eosinophil count)
(INFRARED RAYS, therapeutic use,
rheum. arthritis, with vitamin C, eff. on eosinophil count)
(ULTRAVIOLET RAYS, therapeutic use,
rheum. arthritis, with vitamin C, eff. on eosinophil count)
(EOSINOPHIL COUNT, in various diseases,
rheum. arthritis, eff. of infrared & ultraviolet rays with vitamin C ther.)
(VITAMIN C, therapeutic use,
rheum. arthritis, with infrared & ultraviolet rays, eff. on eosinophil count)

PAKULA, Roman, Dr med., GORSKA, Jadwiga, dr med.; PAGOWSKA-WAWRZYNSKA, Jadwiga, dr med.

Hemagglutination reaction in primary chronic rheumatism. Postepy reumat. no.1:102-113 1954.

1. Z Panstwowego Zakladu Higieny Dyrektor: prof. F.Przesmucki i z Panstwowego Instytutu Reumatologicznego Dyrektor: prof. dr E. Reicher.

(ARTHRITIS, RHEUMATOID, immunology, hemagglut.)
(HEMAGGLUTINATION, in various diseases, rheum. arthritis)

PAGOWSKA-WAWRZYNSKA, Jadwiga

20 years of rheumatism control in Poland. Reumatologia (Warsz.) 2 no.3:181-183 '64.

PAGOWSKA-WAWRZYNSKA, Jadwiga, Dr med.; GRAJNERT, Kazimierz, mgr.

Effect of mud packs on 17-ketosteroids in urine and on eosinophil count in ankylosing spondylitis. Postepy reumat. no.1:126-136 1954.

1. Z Panstwowego Instytutu Reumatologicznego Dyrektor: prof. dr E. Reicher.

(SPONDYLITIS, ANKYLOSING, therapy,
mud ther., eff. on eosinophil count & urinary 17-ketosteroids)
(STEROIDS, in urine,
17-keto, in spondylitis, ankylosing, eff. of mud ther.)
(EOSINOPHIL COUNT, in various diseases,
spondylitis, ankylosing, eff. of mud ther.)
(URINE,
17-ketosteroids in spondylitis, ankylosing, eff. of mud ther.)
(MUD THERAPY, in various diseases,
spondylitis, ankylosing, eff. on eosinophil count & 17-ketosteroids)

PAGOWSKA-WAWRZYNSKA, Jadwiga, Dr med.

Case of temporal arteritis. Postepy reumat. no.1:242-245 1954.

1. Z Panstwowego Instytutu Reumatologicznego. Dyrektor: prof. dr. E.Reicher.

(ARTERITIS,
temporal, surg. & ACTH ther.)
(ACTH, therapeutic use,
arteritis, temporal)

PAGOWSKI, S.

Fire disasters in rural settlements. p. 5.
(BUDOWNICTWO WIEJSKIE. Vol. 9, no. 8, Aug. 1957, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

PAGOWSKI, S.

Causes of fires in rural communities.

p. 4 (Budowinictwo Wiejskei) Vol. 9, No. 9, Sept. 1957, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

PAGOWSKI, W.

The rate of detonation and the effective oxygen balance of explosives. Bul chim PAN 10 no.9:475-477 '62.

1. Institute of Organic Chemistry, Warsaw. Presented by T. Urbanski.

PAGOWSKI, Witold

Detonation rate and the effective oxygen balance of explosives. Chemia Stosow 8 no. 1:83-92 '64.

1. Institute of Organic Industry, Warsaw.

PAGOZA, N. I., PROF

USSR/Medicine - Influenza Feb 1948
Medicine - Skin, Diseases

PA47T72

"Discussion of Articles by Professor L. A. Rozen'yer and G. A. Sizemova, V. M. Fedotev. and F. G. Epshteyn," Prof N. I. Pagoza, 1½ pp

"Klin Medits" Vol XXVI, No 2

Briefly reviews Rozen'yer and Sizemova's article, "Clinical Aspects of Toxic Influenza"; Fedotev's article, "Clinical Diagnosis of Grippal Exanthema"; and Epshteyn's article, "Eruptions during Grippal Infection." All articles deal with two important problems: 1) various facts related to grippal exanthemata, and 2) classification of clinical

47T72

FDB

USSR/Medicine - Influenza (Contd) Feb 1948

aspects of epidemic influenza, and in particular, clinical aspects of grippotoxin.

47T72

FDB

PAGUR, O.G.

IOKHELES, F.Ya. [Iokheles, F.IA.]; LENIVKINA, O.S. [Lenyvkina, O.S.]; TIMOFEYEV, P.V. [Tymofeiev, P.V.]; PAGUR, O.G. [Pahur, O.H.]

Substitute for oil in honing. Mekh. sil'. hosp. 9 no.2:28-29 F '58. (MIRA 11:3)

1.Kharkivs'kiy institut mekhanizatsii sil's'kogo gospodarstva (for Iokheles, Lenivkina, Timofeyev). 2.Kharkivs'kiy traktorniy zavod (for Pagur).

(Metalworking lubricants)

PAGUR, S.I., prepodavatel' khimii (g. Gorno-Altaysk)

Make it yourself. IUn.tekh. 3 no.4:5 Ap '59. (MIRA 12:4)

(Chemistry--Experiments)

PAGUR, S.I. (g.Gorno-Altaysk)

Work involved in equipping a chemical laboratory. Khim. v shkole 13 no.5:67-70 S-O '58. (MIRA 11:9)
(Chemical laboratories)

PAGUROVA, V.I.: DITKIN, V.A., prof., otv. red.; ORLOVA, I.A., red.; KORKINA, A.I., tekhn. red.

[Tables of incomplete gamma functions] Tablitsy nepolnoi gamma-funktsii. Moskva, VTs AN SSSR, 1963. 235 p. (MIRA 16:12)

(Functions, Gamma)
(Mathematics—Tables, etc.)

PAGUROVA, V.I. (Moscow)

Calculation of quantiles of $\Gamma$-distribution. Teor. veroiat.i ee prim. 10 no.4:746-749 '65.

(MIRA 18:12)

1. Submitted April 6, 1965.

1965 118 121

PHASE I BOOK EXPLOITATION SOV/3490

Pagurova, Vera Ignat'yevna

Tablitsy integro-eksponentsial'noy funktsii $E_\nu(x)=\int_1^\infty e^{-xu}u^{-\nu}du$

(Tables of the Integro-Exponential Function $E_\nu(x)=\int_1^\infty e^{-xu}u^{-\nu}du$

Moscow, Vychislitel'nyy tsentr AN SSSR, 1959. 151 p.
(Series: Matematicheskiye tablitsy) 3,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Vychislitel'nyy tsentr.

Resp. Ed.: V.A. Ditkin, Professor; Ed.: M.V. Yakovkin; Tech. Ed.: N.S. Popova.

PURPOSE: This book is intended for specialists in applied mathematics and for scientists.

COVERAGE: The book contains three extensive tables of the integro-exponential function $E_\nu(x)=\int_1^\infty e^{-xu}u^{-\nu}du$.

Most of the work of preparing these tables was done at the Computing

Card 1/2

Pagyi, P.; Salamon, F.

Solutions for the design of the 1511 type Chinese shuttle-changing automatic weaving loom. p.348

MAGYAR TEXTILTECHNIKA. (Textilipari Muszaki es Tudomanyos Egyesulet) Budapest, Hungary. Vol.11, no.9, September 1959

Monthly List of East European Accessions (EEAI) LC, Vol.8, no.11 November 1959
Uncl.

PAHALCK, I.

PAHALCK, I. Plan for international scientific classification of brown coal. Tr. from the Russian. p. 5

Vol. 8, No. 8, Aug. 1956
STANDARDIZAREA
TECHNOLOGY
Bucuresti, Rumania

So: East European Accession, Vol. 6, No. 2, Feb. 1957

PAHEGYI, G.

"Destruction of bacteria by radiation". Reviewed by G. Paphegyi. Elelm ipar 13 no.4:138-139 Ap '59.

PAHKLA, O.

Growth of perch in Vortsjarv and in other Estonian lakes. p. 202.

HUDROBIOLOOGILISED UURIMUSED. GIDROBIOLOGICHESKIE ISSLEDOVANIA.
Tartu. Hungary. No. 1, 1958.

Monthly List of East European Accessions (EEAI) LC, vol. 8, no. 11
November 1959.

Uncl.

PROCESSES AND PROPERTIES INDEX

3

**Radioactivity of samarium.** G. v. Hevesy and M. Pahl. *Nature* 130, 846-7 (1932).—The discovery that the radioactivity of K is due to a minor isotopic constituent suggested that other common elements may also have radioactive isotopes present in small amts. Sm was found to be markedly radioactive. The oxide has an activity $^1/_6$ that of a thick layer of KCl of equal surface. This activity is not pptd. with Ba, Pb or Zr and its intensity is decreased $^1/_2$ by 1.3 μ of Al. Measurements by the Geiger and Klemperer method indicate the radiation is of the α-ray type. The radioactivity is not due to any known radioactive element and this kind of radiation has not previously been known. The activity may be due to the presence of the adjacent rare element 61 in traces but this seems unlikely as all Sm prepns. examd showed the same activity.

Orrin K. Sheppard

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

PAHL, Walther.

Weltmacht Sowjetunion, eine Uebersicht. [World power of the Soviet Union; a survey]. Leipzig, W. Goldmann, (1939). 154 p. maps (Weltgeschehen). Contains data on railroads (p. 115), road network (p. 124), inland waterways (p. 126) and Soviet airlines (p. 129)

DLC: DK18.P2

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

11-H

**The pharmacodynamics of magnesium sulfate. VIII. The effect of intravenous injections of magnesium sulfate on dogs. A clinical study.** G. Nichita and I. Pahomeanu-Mesaros (Univ. Bucharest, Roumania). *Bull. med. Roumanie* 17, 87-96(1945)(in French).—$MgSO_4$ (10% soln.) can be administered intravenously to dogs in therapeutic doses of 0.05 to 0.15 g. per kg. of body wt. In this quantity the dose can be repeated once or twice within short intervals and causes transient changes in the body functions. The dose of 0.2 to 0.25 g. can be repeated only once during the day with an interval of at least 1 hr., and it has an analgesic and anesthetic effect on the animal. Doses in excess of 0.25 g. cause respiratory failure and death through asphyxia. **IX. The action of magnesium sulfate on the salivary, biliary, and renal secretions of the dog.** G. Nichita and M. Stanescu. *Ibid.* 116-25.—Intravenous injections of $MgSO_4$ inhibit the activity of the salivary glands in dogs. The normal salivary secretions are completely suppressed by even the smallest doses of $MgSO_4$, and the secretion stimulated by injection of pilocarpine is considerably decreased. The secretion of bile is also inhibited in proportion to the amt. of $MgSO_4$ administered, but unlike the effect of pilocarpine, no choleretic or cholecystokinetic effects result from the application of $MgSO_4$. The increase in urinary vol. presumably is due to cardiovascular changes brought about by $MgSO_4$, and injections of pilocarpine counteracted the diuresis. Administration of $CaCl_2$ following injection of $MgSO_4$ does not modify the effect on the salivary and bile secretions; it does, however, augment the diuresis. The injection of $CaCl_2$ at the moment of appearance of respiratory failure (sometimes followed by cardiac failure) revives the heart and respiratory functions. Injections of $MgSO_4$ produce a discrepancy between the thoracic and abdominal respiration, since, while the thoracic respiration is decreased, the abdominal respiration is increased by the strong contractions of the diaphragm. **X. The effect of intravenous injections of magnesium sulfate on dogs. A graphic study.** G. Nichita, I. Popesco, and I. Pahomeanu-Mesaros. *Ibid.* 129-32.—Intravenous injections of $MgSO_4$ have the same pharmacodynamic effect on dogs anesthetized with chloralose as on nonanesthetized animals, except for the decreased resistance of the first group to the doses of $MgSO_4$. The $MgSO_4$ causes the following effects: acceleration of the

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

MOLJK, A.; PAHOR, J.

Proportional counters. Obz mat fiz 8 no.1:1-15 My '61.

1. Clan Uredniskega odbora, "Obzornik za matematiko in fiziko"(for Moljk).

PAMOR, M.

PAMOR, M. Roads on islands of the Croatian Littoral.

Vol. 3, No. 7, July 1955 CESTE I MOSTOVI Zagreb, Yugloslavia

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No.3
March, 1956

URSIC, S.; KUSCER, I.; PAHOR, S.

For the young mathematicians and physicists. Obz mat fiz 10 no. 4:190-192 D '63.

PAHOR, Sergej

Ternary quadratic forms. Obz mat fiz 8 no.3:104-111 N '61.

PAHOR, Sergej

Liouville-Green method for an approximate solution of the linear homogeneous differential equations of second order. Obz mat fiz 8 no.3:112-119 N '61.

GUZELJ, Vladimir; PAHOR, Vladimir

Case of hyperinsulinism as a result of insuloma. Zdrav. vest., Ljubljana 23 no.9-10:203-208 1954.

1. Kirugicna klinika Medicinske visoke sole v Ljubljani, predstojnik prof. dr. Bozidar Lavric; Interna klinika Medicinske visoke sole v Ljubljani, predstojnik prof. dr. Igor Tavcar.
(ISLANDS OF LANGERHANS, neoplasms in etiol. of hyperinsulinism)
(HYPERINSULINISM, etiol. & pathogen. adenoma of islands of Langerhans)

PAHOTA, Karoly

Gas turbines in the power industry. Musz elet 16 no.18:14 '61.

PAHOTA, Karoly

Plastics in the automotive industry. Musz elet 20 no.4:1,14 25 F '65.

PAHOTA, Karoly

The 220 kw substation of Sajoszoged. Muszaki elet 16 no.21:7 '61.

ACCESSION NR: AP4018044 H/0008/64/000/002/0062/0066

AUTHOR: Pahota, Karoly

TITLE: The cooling of gas turbine elements exposed to the effect of high temperatures

SOURCE: Energia es atomtechnika, no. 2, 1964, 62-66

TOPIC TAGS: cooling system, gas turbine element, high temperature, heat-resisting alloy, compressor, combustion chamber, stationary installation, internal cooling, liquid sodium, liquid potassium, contour, exhaust, vane, radiator, superheater

ABSTRACT: It is necessary to develop cheaper heat-resisting alloys and a simple, reliable method for cooling gas turbine elements subject to high temperatures, since the highest attainable initial gas temperature is determined in practice by the permanent strength of the structural material employed, which diminishes with increasing temperature. The thermal efficiency of a gas turbine and the structural dimensions are, in turn, considerably affected by the initial gas temperature. The output of a gas turbine is therefore a function of the aggregate of efficiency values of the compressor and the combustion chamber as well as the turbine. The

Card 1/3

ACCESSION NR: AP4018044

numerous alloys made from structural steel are reliable only up to 700-800C without cooling. Further development may be divided into two main categories according to the application of gas turbines: 1) in planes, ships, automobiles, etc., where the results obtained are very considerable; 2) in stationary installations, where structural solutions, e.g., cooling of elements subject to high temperatures, as well as metallurgic solutions, may contribute to further development, since numerous factors hindering the development of mobile equipment may be disregarded. The paper's findings regarding internal and external cooling are summarized thus: construction of high-temperature gas turbines from materials now available and with internal cooling of the vanes is practically and economically feasible. Both the one- and the two-contour internal cooling systems are satisfactory. In a one-contour system the heat carrier may be air, water or saturated steam; in a two-contour one, a liquid metal (preferably sodium or potassium) in the primary cycle and any of those used in the one-contour system in the secondary cycle. Cooling the vanes with water involves serious structural difficulties. It is economical to use air to carry off small amounts of heat; saturated steam for the same purpose, especially if the cooling system is an exhaust. With a two-contour system, steam reduces the size of the radiator or increases the heat-transmitting surface.

Card 2/3

ACCESSION NR: AP4018044

In combined steam-gas turbine installations, where the cooling system can circulate large amounts of steam, intermediate superheaters may also be used. Original has 8 diagrams and 1 table.

ASSOCIATION: Tiszapalkonyai Hoeromu V. (Tiszapalkonya Thermal Power Plant V)

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Card 3/3

PAHOTA, Karoly

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Utilization of geothermal energy. Musz elet 17 no.24:12 22 N '62.

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NAGY, Albert, okleveles gepeszmernok; PAHOTA, Karoly, okleveles gepeszmernok

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Dew point investigation in pulverized coal-fired boilers.
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PAHOV, L.IA.

Potential flow around half-bodies. Godishnik mash elekt 10 no.3:40-50 '61 (publ.'62).

PAIAKOV, Iv.; ZHELIAZKOVA-PANAIOTOVA, M.; IVCHINOVA, L.

Structural and textural characteristics, and mineral composition of the chromite ores of Dobromirtsi. Godishnik biol 56 219-251 '61/'62.

PAIATSYK, V. V.; PORTNOY, L. R.

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Increase in collective farm vegetable gardening; Sad i og. no. 1, 1952.

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PAIC, Guy, student (Zagreb)

Concerning some applications of semiconductor on the transformation of nuclear energy into electric energy. Elektrotehnika Hrv 3 no.4: 150-153 '60.

1. Elektrotehnicki fakultet Sveucilista u Zagrebu

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Bc

A-1

Sensitiveness of the Debye-Scherrer method, and the possibility of its application to quantitative analysis. M. Pató (Arh. Hemije, 1933, 7, 143—146).—The composition of mixtures may be calc. from the theoretical equation $A/B = A_1a_2b/B_1ab_1$, . . .

where $A$ and $B$ and $A_1$ and $B_1$ represent the mol.-% of two substances, $A$ and $B$, respectively, in a mixture of unknown and known composition, and $a$, $b$, $a_1$, and $b_1$ are the intensities of corresponding lines of the X-ray spectra. R. T.

COMMON ELEMENTS

OPER

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

Pnic, M.

PROCESSES AND PROPERTIES INDEX

**Absorption spectra of syphilitic serum in ultra-violet light.** Mladen Pak. *Arhiv Hem. Farm.* 8, 131-2 (132 in French)(1934).—It is not possible to distinguish between syphilitic and normal sera by examg. the absorption spectra in the ultra-violet. Syphilis does not affect profoundly the structure of the proteins of serum.

I. Kubera

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

PAIC M

CA

1

**Some new types of glass electrodes.** Mladen Paić. *Arhiv Hem. i Tehnol.* 12, 110-17(1938); *Chem. Zentr.* 1939, I, 1808; cf. *C. A.* 33, 1549.—Simple and durable glass electrodes were prepd. by fusing a thin glass membrane between 2 glass tubes. The making of an ordinary electrode, a microelectrode, a differential electrode and an electrode for simultaneous differential and abs. titration are described. M. G. Moore

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

BC

a-1

COMMON ELEMENTS

COMMON VARIABLES INDEX

OPER

MATERIALS INDEX

**Determination of mol. wt. by an ultra-centrifuge method, without an observation system.** M. Paić (Arh. Hemiju, 1939, 13, 33—41).—The use of the ultra-centrifuge of Henriot and Huguenard for mol. wt. determination is described. R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

AUTHOR INDEX

1ST AND 2ND LETTER

3RD LETTER

3RD AND 4TH ORDERS

5TH ORDER

7

CA PAIC, M.

**Diffusion of copper in aluminum in the presence of calcium. Microradiographic method of analysis.** Mladen Paić (Zagreb, Yugoslavia). *Metal Treatment* 18, 395-9 (1951).—The core of the specimen sheets consisted of an alloy contg. Cu 3.63, Mg. 1.01, Si 0.80, Mn 0.61, Fe 0.41, and balance Al. The cladding was effected by hot-rolling the cast plate forming the core between 2 sheets of Al. The Al analyzed from 99.83 to 99.70% with varying amts. of Ca. The Ca was added in the form of the oxalate. Each clad sheet was heated at 500° for 20, 80, 160, 240, or 400 min. Microradiograph prints are shown of the specimens at various stages. The microradio analysis makes it possible to follow the Cu content of the clad layer as a function of the distance from the surface and as a function of the time of heating. This permits calcn. of the Cu concn. gradient in the cladding. Comparison of the Cu concn. gradients in clad layers heated for various times at 500° shows that the rate of Cu diffusion increases with the Ca contents of the cladding. The fact that the presence of Ca in the clad layer increases the corrosion resistance cannot be attributed to an inhibiting effect on the rate of diffusion of Cu. It was also found that the Cu reaches the exterior surface of the cladding in Al of thickness 0.15 mm. after heating for about 80 min. at 500°.

Lawrence H. Seabright

PAIC, M. ; CELUTSKA, B.

The radioautographic research into some Yugoslov rocks. In French. p. 149. (Glasnik Matematicko-fiziciki I astronomski, Vol. 11, No. 2, 1956, Zagreb, Yugoslovia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

PAIC, V.; PAIC, M.; PRELEC, K.; CERINEO, M.; ILAKOVIC, K.; SLAUS, I.; TOMAS,P; VALKOVIC, V.; LJOLJE, K.; SIPS, V.

Review of peridoicals; physics. Bul sc Youg 9 no.4/5:126 Ag-O '64.

1. Ruder Boskovic Institute, Zagreb.

ANTOLKOVIC, B. (Zagreb); PAIC, M. (Zagreb); PRELEC, K. (Zagreb); TOMAS, P. (Zagreb); TURK, M. (Zagreb); WINTERHALTER, D. (Zagreb)

The absolute and relative measurements of neutron fluxes obtained from the neutron generator of the Institute "Ruder Boskovic." Ves mat fiz Srb no.12:97-101 '60.

S/058/62/000/008/012/134
A061/A101

AUTHORS: Antolković, B., Paić, M., Turk, M., Winterhalter, D.

TITLE: The influence of collimation on the energy spectrum of 2.7-Mev neutrons

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1962, 20, abstract 8B143 ("Glasnik mat.-fiz. i astron.", 1961, v. 16, no. 1 - 2, 135 - 141, English; summary in Serbo-Croatian)

TEXT: The study of reactions induced by fast monochromatic neutrons calls for the knowledge of the spectral line shape of neutrons incident upon the specimen. For this purpose the influence of shape, size, and material of a collimator on the energy spectrum of 2.7-Mev neutrons was studied. The neutrons were obtained from a (d,d) reaction on a 200-kev Cockroft-Walton accelerator. The neutron energy distribution was measured by a $Li^6I$ scintillation counter and a multichannel pulse-height analyzer. It has been established that clearer spectra are obtained with long collimators made from an iron-paraffin mixture. It is noted that the preferable collimator shape is the double cone.
[Abstracter's note: Complete translation] I. Sadikov

Card 1/1

19

Radioautographic study of some Yugoslavian rocks. M. Paić and B. Čelustka (Fac. Sci., Zagreb, Yugoslavia). *Glasnik Mat. fiz. i Astron. Ser. II*, 11, 149-55(1956)(in French).—This gives a table of about 100 samples of various rock types to indicate the no. of samples of each type that contain radioactive inclusions. A liquid nuclear emulsion was used directly on the surface of the thin section. The exposure time ranged from 60 to 74 days. The length of the trace of the path on photographic plate is a function of the emission energy of the α- or β-particles and can be used to identify the radioactive material. William Back

TH 1/1

4

RADIO

PAIC, M.

Professor Dusan Pejnovic; an obituary. p. 217.

GLASNIK MATEMATICKO FIZICKI I ASTRONOMSKI. PERIODICUM MATEMATICO PHYSICUM ET ASTRONOMICUM. (Drustvo matematicara i fizicara Hrvatske i Prirodoslovno-matematicki fakultet Sveucilista u Zagrebu) Zagreb, Yugoslavia. Vol. 13, no. 3, 1958.

Monthly List of EastEuropean Accessions (EEAI), LC, Vol. 9, no. 2, 1960.
Uncl.

STIPCIC, N. (Zagreb); PAIC, M. (Zagreb); TOMAS, P. (Zagreb)

The ion optical system of a 200 kV Cockroft-Walton accelerator.
Glas mat fiz Hrv 17 no.1/2:107-112 '62.[publ. '63].

1. Institute "Ruder Boskovic", Zagreb.

PAIC, V

VALERIJA PAIC

Protection from radiations. Arh. hig. rada 7 no.4:343-356 1956.

1. Fizički institut Prirodoslovno-matematičkog fakulteta, Zagreb i Institut Ruđer Bošković, Zagreb. Adres: Institut de Physique de la Faculte des sciences, Zagreb et Institut Ruđer Bošković Zagreb.
(RADIATION PROTECTION
(Ser))

PAIC, V.; PAIC, M.; PRELEC, K.; CERINEO, M.; ILAKOVIC, K.; SLAUS, I.; TOMAS,P; VALKOVIC, V.; LJOLJE, K.; SIPS, V.

Review of peridoicals; physics. Bul sc Youg 9 no.4/5:126 Ag-O '64.

1. Ruder Boskovic Institute, Zagreb.