

MANITIUS, A.

Potassium content of the blood serum in healthy men. II. Effects of venous stasis, diet and exercise; individual constancy of potassium level. Acta biochim. polon. 4 no.2:93-101 1957.

1. 3 Zakladu Chemii Fizjologicznej Akademii Medycznej w Gdansk.
Kierownik: Prof. dr Wlodzimierz Morawski.

(POTASSIUM, in blood

eff. of exper. venous insuff., high-potassium diet &
exercise in men (Pol))

(BLOOD CIRCULATION

eff. of exper. venous insuff. on blood potassium in men (Pol))

(MERCURY, eff.

on blood potassium (Pol))

MANITUS, A.

So-called reverse hemolysis. I. Changes of inorganic ions concentration, nature of reversion. Acta biochim. polon. 4 no.4:267-275 1957.

1. Z Zakladu Chemii Fizjologicznej Akademii Medycznej w Odansku Kierownik: prof. dr W. Mosolowski.

(HEMOLYSIS,

reverse binding of hemolysed hemoglobin, erythrocytic calcium, potassium & sodium in (Pol))

(CALCIUM, in blood,

erythrocytes, in reverse binding of hemolysed hemoglobin (Pol))

(SODIUM, in blood,

same)

(POTASSIUM,

same)

HILLER, S.; MANITIUS, A.

So-called reverse hemolysis. II. Morphological studies. Acta biochim.
nolon. 4 no.4:277-281 1957.

1. Z Zakladu Histologii i Embriologii Kierownik: prof. dr S. Hiller
i Z Zakladu Chemii Fizjologicznej Akademii Medycznej w Gdansk Kierownik:
prof. dr W. Mozolowski.

(HEMOLYSIS,

reverse binding of hemolyzed hemoglobin in solution, morphol.
aspects (Pol))

MANITIUS, Andrzej

A case of acquired spontaneous agammaglobinemia. Polskie arch.
med. wewn. 29 no.6:827-832 1959.

1. Z II Kliniki Chorob Wew netrznych Akademii Medycznej W Gdansk
Kierownik: prof. dr med. J. Penson.
(AGAMMAGLOBINEMIA, case reports)

MANITIUS, Andrzej

Iron metabolism and its disorders during the course of
idiopathic hemochromatosis. Polski tygod.lek. 15 no.20:
767-769 16 My '60.

1. Z II Kliniki Chorob Wewnętrznych A.M. w Gdansk; kierownik:
prof. dr. Jakub Penson.
(IRON metab.)
(HEMOCHROMATOSIS metab.)

MANITIUS, Andrzej

Recent views on the concentration and dilution of urine. Polski tygod.lek. 15 no.31:1103-1107 1 Ag '60.

1. Z II Kliniki Chorob Wewnetrznych A.M. w Gdansk; kierownik:
prof. dr Jakub Penson

(URINE)

(KIDNEY physiol.)

MANITIUS, Andrzej; LEVITIN, Howard; BECK, David; EPSTEIN, Franklin H.

Studies on the etiology of urine concentration disorders in
potassium deficiency. *Polskie arch. med. wewn.* 30 no.12:
1495 '60.

1. Z II Kliniki Chorob Wewnętrznych A.M. w Gdansk Z II Kliniki
Chorob Wewnętrznych A.M. w Gdansk Kierownik: prof. dr med.
J. Pensen i z Departament of Internal Medicine Yale University School
of Medicine, New Haven, Connecticut.

(POTASSIUM defic) (URINE)

MANITIUS, Andrzej; LEVITIN, Howard; BECK, David; EPSTEIN, Franklin H.

Causes of impaired urine concentrating capacity in hypercalcemia caused by calciferol. Polskie arch. med. wewnetrz. 31 no.1:25-31 '61.

1. Z II Kliniki Chorob Wewnetrznych A.M. w Gdansk Kierownik: prof. dr med. J. Pensen i Departament of Internal Medicine, Yale University School of Medicine, New Haven, Connecticut.

(VITAMIN D pharmacol) (CALCIUM blood) (URINE)

MANITIUS, Andrzej; MUSZKOWSKA-PENSON, Joanna; STOLARCZYK, Julian

Renal changes in multiple myeloma. Polskie arch. med. wewn. 31 no.6:
837-846 '61.

1. Z II Kliniki Chorob Wewnętrznych AMG Kierownik: prof. dr med.
J. Penson i z Zakładu Anatomii Patologicznej AMG Kierownik: prof. dr
med. W. Czarnocki.

(MYELOMA PLASMA CELL compl)
(ACUTE RENAL FAILURE etiol)

STOLARCZYK, Julian; MANITIUS, Andrzej

Morphological changes in collecting renal canals in antidiuresis and osmotic, alcoholic and water diuresis. Preliminary communication. Pat. polska 13 no.1:59-64 '62.

1. Z Zakladu Anatomii Patologicznej AM w Gdansk Kierownik Zakladu:
prof. dr W. Czarnocki Z II Kliniki Chorob Wewnetrznych AM w Gdansk
Kierownik Kliniki: prof. dr J. Penson.
(KIDNEYS anat & histol) (VASOPRESSIN pharmacol)
(DIURESIS)

Warsaw-Krakow, Przedlad Lekarski, Vol 18, Ser 2, No 4, 1962

- a. "Early Diagnosis of Multiple Sclerosis. III. Motor and Other Symptoms." Wojciech GIBINSKI, of the Neurology Branch [Additional Neurological Institute] at Paskow [Director: Prof. Z. KUJAWSKI, MD]; pp 173-178 (English summary).
- b. "Action of Antibiotics in Habitual obstruction." D. BUKALSKA, Ch. WACHNINIO, D. BOOMA, and A. MARCINKO of the Third Clinic for Internal Diseases (III Clinic) at Prob Wevnetrmynoh at BYDOW (Director: Prof. Dr. J. GIBINSKI) and of the Microbiology Research Office (Zaklad Mikrobiologii) of the Hanka Medical Academy (slaska Akademia Medyczna) at Lodz-Mokotow [Director: Decent Dr. J. Jaglinski-Bukniewicz J. SZTARLAKI]; pp 179-182. (English summary).
- c. "Proton Treatment." Anna KOCICA and Aleksander WROBICKI of the First Clinic of Obstetrics and Female Diseases (I Klinika Położniczo-Ginekologiczna) at Lublin [Director: Prof. Dr. S. KLEBANIK] and of the Vaginal-Dysplasia Special. Prof. Dr. S. KLEBANIK (Wojewodska Psychodna Specjalist. Ginekologina) at Lublin [Director: Adikt Dr. B. Gajdarski]; pp 182-188. (English summary).
- d. "Most Frequent Errors in Clinical Diagnosis Resulting from Wrong Interpretation of Biological Pregnancy Reactions." Jerzy RYBAKOWSKI of the First Clinic of Obstetrics and Female Diseases of the Medical Academy in Wrocław [Director: Decent Dr. K. NOWOSAD]; pp 188-190. (English summary).
- e. "Experiments of Tumor Diagnosis with the Scheller Method." Jerzy RUCZYŃSKI, Leszek MALSKI, and Stanisław Ogiński of the Third Clinic of Internal Diseases (III Klinika Chorob Wewnętrznych) of the Medical Academy in Wrocław [Director: Prof. Dr. J. ALERMANOWSKI]; pp 190-193. (English summary).
- f. "Therapeutic Action of Preparation 'P' 1957 (Fovane). II. Therapeutic Action in Healthy Menstruating Women." Edyta KNPŁA, Konstanty LEBONIAK, and Andrzej MĄKUSZ of the Second Clinic of Internal Diseases of the Medical Academy at Gdańsk [Director: Prof. Dr.

POLAND

MANITIUS, Andrzej

Department of Automation and Telemechanics, Warsaw Polytechnic
(Katedra Automatyki i Telemechaniki, Politechniki Warszawskiej)

Warsaw, Archiwum automatyki i telemechaniki, No 2, April-June 1965,
pp 111-127

"Optimization of a discrete compensator controlling a continuous
object with random disturbances."

POLAND

MANITIUS, Andrzej

Department of Automation and Telemechanics, Warsaw Polytechnic
(Katedra Automatyki i Telemechaniki, Politechniki Warszawskiej)

Warsaw, Archiwum automatyki i telemechaniki, No 4, October-December
1965, pp 427-447

"Properties of system with discrete compensator optimal for
random disturbances."

ACC NR: AP5023973

SOURCE CODE: PO/0031/65/010/002/0111/0127

AUTHOR: Manitius, Andrzej--Manitsius, A.

ORG: Department of Automation and Telemechanics, Warsaw Polytechnic Institute
(Katedra Automatyki i Telemechaniki Politechniki Warszawskiej)

TITLE: Optimization of a discrete compensator controlling a continuous object with random disturbances

SOURCE: Archiwum automatyki i telemechaniki, v. 10, no. 2, 1965, 111-127

TOPIC TAGS: random noise signal, ~~perturbation~~, ~~inertial guidance~~, automatic control technology, ~~process compensation~~ optimization, computer calculation, parameter, optimal control

ABSTRACT: An analysis was made of the method of optimization of a discrete compensator for inertial object systems with time lag and both the perturbation and input signal being random. Optimization was made according to the mean square error criterion by means of Wiener's method modified by Chang and further adapted to the case considered. The z transform was used. The general course of procedure is defined by formulas, which lead to the operations performed upon compound rational functions. From certain of these formulas, it is possible to obtain the general form of the transfer function of the optimal compensator and optimal system. The structure of such a compensator is shown. Compensator parameters depend on the parameters of the object and of the signals acting on the system. Their exact determination calls

Card 1/2

L 18815-66

ACC NR: AP5023973

for digital computations. An example of the computed compensator for the specific set of parameters of the object and signals is given. The computational complexity of the method is evaluated. Orig. art. has: 5 figures and 46 formulas. [Based on author's abstract.]

SUB CODE: 12.13/ SUBM DATE: none/ OTH REF: 003/

Card 2/2 -4W

SUCHECKI, Tadeusz; MANITIUS, Andrzej

A case of severe metabolic disturbances secondary to vomiting.
Wiad. lek. 18 no.6:517-520 15 Mr '65.

POLAND

MANITIUS, Andrzej

Dept. of Automation and Telemechanics, Warsaw Polytechnic (Politechnika Warszawska, Katedra Automatyki i Telemechaniki)

Warsaw, Archiwum automatyki i telemechaniki, No 3, July/Sept 1966, pp 281-98

"Optimization of a sampled-data system with finite settling time with respect to combined stochastic-deterministic performance indices."

L 05300-67 $\frac{EWP(v)}{EWP(k)} / \frac{EWP(h)}{EWP(l)}$

ACC NR: AP6031532

SOURCE CODE: PO/0031/66/011/003/0281/0299

41
40
E

AUTHOR: Manitius, A. -- Manitsiyus, A.

ORG: Warsaw Politechnic, Department of Automation and Telemechanics
(Politechnika Warszawska, Katedra Automatyki i Telemechaniki)

TITLE: Optimization of a data sampling system with a finite duration of transient processes with respect to combined stochastic-deterministic performance indices

SOURCE: Archiwum automatyki i telemechaniki, v. 11, no. 3, 1966, 281-299

TOPIC TAGS: optimization, signal recording, linear equation, digital computer, finite automation, data sampling

ABSTRACT: Two methods are described for the synthesis of a data-sampling system with a finite duration of transient processes. The synthesis is carried out for the deterministic signals and a performance index of random signal filtration, taking into consideration a performance index connected with the transient process. The problem, formulated in the vector-matrix record, is reduced to the determination of a conditional minimum of a sum of linear and quadratic forms. The minimum conditions are described by the system of linear equations.

Card 1/2

L 05300-67

ACC NR: AP6031532

Characteristic results are presented for solving the problems with a digital computer. The properties of optimal systems are analyzed. Orig. art. has: 11 figures and 30 formulas. [Based on author's abstract]

SUB CODE: 13/ SUBM DATE: 11Jan66/ ORIG REF: 001/ OTH REF: 005/

Card 2/2 *eq*

MANITIUS, Jan, prof.

Modern problems regarding electric drive in the metallurgic industry and its automation. Przegl elektrotechn 37 no.10:421-422 '61.

1. Akademia Gorniczo-Hutnicza, Krakow.

(Metallurgy) (Electric driving)

MANITIUS, Jan, prof.

"Electronic capacity controllers" by T. Konopinski, J. Lucinski.
Reviewed by Jan Manitius. Pomiary 8 no.10:494 0 '62.

MANITIUS, Jan

Additional current losses and selection of the cathode reactor
in rectifier driving gears. Przegl elektrotechn 39 no.3:
97-101 Mr '63.

1. Akademia Gorniczo-Hutnicza, Krakow.

MANITIUS, Jan

Additional losses in rectifier drive of mining machinery. Archiw
gorn 9 no.2:233-242 '64.

11/12/57 5701 S. 10
MANITIUS, S.

Characteristics of the dynamics of an agricultural tractor.

p. 355 (Technika Motoryzacyjna) Vol. 7, no. 10, Oct. 1957, Warszawa, Poland

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

MANITIUS, Stefan, mgr., inż.

Ship propeller reduction gears. Pt. 3.: Planetary gears. Bud sekretowe
Warszawa 7 no.1:10-13 '62.

1. Centralne Biuro Konstrukcji Okretowych Gdansk.

(Ship propulsion) (Gearing)

MANITIUS, Stefan, mgr., inż.

Ships propeller gearing. Bud okret 7 no.4:124-126 Ap '62.

1. Centralne Biuro Konstrukcji Okretowych Nr. 1, Gdansk.

MANETIUS, Stefan, mgr.inz.

Ship gear of propeller propulsion. Pt.5. The exploitation of
the gear. Bud okretowe Warszawa 7 no.6:193-194 Je '62.

PACZESNIAK, Jerzy, prof. mgr inz.; MANITIUS, Stefan, mgr inz.

Results of inspecting and testing the prototype tanker
B 70 with carrying capacity of 19,000 T DW. Bud okretowe
Warszawa 7 no.10:322-326 0 '62.

1. Centralne Biuro Konstrukcji Okretowych Nr 1, Gdansk.

1ST AND 2ND CODES										3RD AND 4TH CODES									
PROCESS AND PROPERTIES INDEX																			
664. Additional losses in windings. GODOLEWSKI, Z. AND MANTUS, T. <i>Przeg. Elektrotech.</i>, 24 (No. 6) 166-71 (1948) <i>In Polish</i>.—By a method of successive approximations formulas are derived for the calculation of additional copper losses due to uneven current distribution in windings of electric motors and transformers. A. BCZ.																			
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664. Additional losses in windings. GODOLEWSKI, Z. AND MANTUS, T. *Przeg. Elektrotech.*, 24 (No. 6) 166-71 (1948) *In Polish*.—By a method of successive approximations formulas are derived for the calculation of additional copper losses due to uneven current distribution in windings of electric motors and transformers. A. BCZ.

L 05300-67 EWP(v)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AP6031532 SOURCE CODE: PO/0031/66/011/003/0281/0299

41
41
K

AUTHOR: Manitius, A. -- Manitsiyus, A.

ORG: Warsaw Politechnic, Department of Automation and Telemechanics
(Politechnika Warszawska, Katedra Automatyki i Telemechaniki)

TITLE: Optimization of a data sampling system with a finite duration of transient processes with respect to combined stochastic-deterministic performance indices

SOURCE: Archiwum automatyki i telemechaniki, v. 11, no. 3, 1966, 281-299

TOPIC TAGS: optimization, signal recording, linear equation, digital computer, finite automation, data sampling

ABSTRACT: Two methods are described for the synthesis of a data-sampling system with a finite duration of transient processes. The synthesis is carried out for the deterministic signals and a performance index of random signal filtration, taking into consideration a performance index connected with the transient process. The problem, formulated in the vector-matrix record, is reduced to the determination of a conditional minimum of a sum of linear and quadratic forms. The minimum conditions are described by the system of linear equations.

Card 1/2

L 05300-67

ACC NR: AP6031532

Characteristic results are presented for solving the problems with a digital computer. The properties of optimal systems are analyzed. Orig. art. has: 11 figures and 30 formulas. [Based on author's abstract]

SUB CODE: 13/ SUBM DATE: 11Jan66/ ORIG REF: 001/ OTH REF: 005/

Card 2/2 *eqh*

L 33141-66 EWP(c)/EWP(v)/EWP(k)/EWP(h)/EWP(t)/ETI/EWP(1) IJP(c) JD/EM
ACC NR:AP6024571 SOURCE CODE: RU/0017/65/000/003/0135/0138

AUTHOR: Maniu, A. (Engineer); Kremer, H. (Engineer) 34

ORG: [Maniu] Polytechnical Institute, Brasov (Institutul Politehnic); [Kremer]
"METROM" Works, Brasov (Uzinele "METROM")

TITLE: Manufacture of converter blades 20

SOURCE: Metalurgia, no. 3, 1965, 135-138

TOPIC TAGS: petroleum industry, petroleum engineering

ABSTRACT: A discussion of the technical conditions and manufacturing technology of
converter blades for the oil industry made of AM-63, with emphasis on the methods
and conditions used at the Metrom Works of Brasov. Orig. art. has: 4 figures
and 1 table. [Based on author's Eng. abst.] [JPRS] 14

SUB CODE: 13, 05 / SUBM DATE: none

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Card 1/1

UDC: 665.54.041.498:66.063

0915 2204

L 42977-66 EWP(v)/T/EWP(k)/EWP(b)/EWP(L) V TJP(c) HM/JD

ACC NR: AP6008358

SOURCE CODE: RU/0017/65/000/001/0001/0001

AUTHOR: Hilma, L. (Engineer); Maniu, Al. (Engineer) 16 B

ORG: [Hilma] Metrom Works, Brasov (Uzinele Metrom); [Maniu] Polytechnical Institute, Brasov (Institutul politehnic)

TITLE: Cu-Cr alloys for electric resistance welding electrodes

SOURCE: Metalurgia, no. 1, 1965, 1 44, 55, 16

TOPIC TAGS: chromium containing alloy, copper alloy, welding electrode, resistance welding, tensile strength, electric conductivity, cold working

ABSTRACT: The authors discuss the advantages and proper treatment of Cu-Cr alloys for resistance welding electrodes. Thermically treated and cold-hammered Cu-Cr alloys containing 0.5 to 1 percent Cr have a tensile strength of 58 kilograms per millimeter and electrical conductivity of nearly 80 percent that of pure copper, even after heating to 400 degrees centigrade. The necessary hardness (at least 130 kilograms per millimeter) can be supplied by proper hardening-tempering followed by 50 percent cold hammering. Orig. art. has: 5 figures and 4 tables. [JPRS]

SUB CODE: 11, 13 / SUBM DATE: none / OTH REF: 002

Card 1/1 hs

UDC: 669.35'26:621.791.042

MANIU, G.; POTOP, P.; POPESCU, N.

Evaporation with immersed burner, and its application in inorganic chemical industry. Note II. Evaporation of NaCl brine and lyes of sodium chromate and sodium carbonate. p. 562

REVISTA DE CHIMIE. (Ministerul Industriei Petrolului si Chimiei si Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania)
Bucuresti, Rumania, Vol. 10, no. 10, Oct. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2, August 1959

Uncl.

PAUNESCU-PODEANU, A.; BERINDE, L.; MANESCU, N.; MANIU, I.; DANCAU, G.;
BALTACEANU, O.

Rheumo-tuberculous states. Probl. reumat., Bucur. 4:55-71 1956.

(TUBERCULOSIS, complications
rheumatic disord., pathogen. & incidence)
(RHEUMATISM, etiol. & pathogen.
tuberc., incidence & mechanism)

MAN I. I.
PAUNESCU-PODEANU, A., Prof.; MANIU, I., dr.; BALTACEANU, O., dr.;
KRAUS, N., dr.; CZERNICK, I., dr.

The phenomenon of hemoclasia and allergy in pathogenesis of some
of the complications of gastric resection. Med. int., Bucur. 4 no.
8:1104-1111 Dec 56.

(GASTRECTOMY, complications
pathogen., allergy & hemoclasia)
(ALLERGY
in etiol. of post-gastrectomy digestive & resp. disord.)
(BLOOD DISEASES
hemoclasia in etiol. of post-gastrectomy compl.)

7 11/11/11
RUMANIA/Human and Animal Physiology. The Nervous System. V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27380.

Author : A. Păunescu-Podeanu, Oct. Baltaceanu, D. Maior,
I. Dinu and I. Maniu.

Inst :

Title : Histamine-Induced Headaches. Minor Forms, Those Not
Undergoing Treatment, Unrecognized and Incorrectly
Diagnosed Cases.

Orig Pub: Viata med., 1957, 4, No 3, 3-12.

Abstract: No abstract.

Card : 1/1

PAUNDESCU-PODEANU, A.; MANIU, I.

Liver cirrhosis and cardiac insufficiency (An analytical study of the aggravating, decompensatory action of cardio-circulatory insufficiency on compensated liver cirrhosis). Probl. card., Bucur. 4:97-105 '59.

(LIVER CIRRHOSIS, complications)

(HEART FAILURE, CONGESTIVE, complications)

MANTU, Tiberiu, ing.

Aggregates for cementation. St al Teh Enc 15 no.6:5 Je '63.

1. Technological Institute for Machine Construction and
Electrotechnical Engineering.

MANIU, Tiberiu, ing.

Modern rolling girders. St si Teh Buc 15 no.10:28 0 '63.

BAGDZIUS, B., otv. red.[deceased]; CUKERZIS, J., red.; LAPINSKAITE, J., red.; MANIUKAS, J., red.; KAMINSKIENE, L., red.

[Hydrobiological studies of Dukstas area lakes] Duksto ezeru hidrobiologiniai tyrimai. Gidrobiologicheskie issledovaniia Duktasskikh ozer. Vilnius, Leidykla "Mintis," 1964. 146 p.
[In Lithuanian and Russian] (MIRA 18:2)

1. Lietuvos TSR Mokslu Akademija, Vilna. Zoologijos ir parazitologijos institutas.

MANIYA G. M.

"Statistical Evaluation of the Law of Distribution (Generalization of the Criterion of Academician A. N. Kolmogorov)." Thesis for degree of Cand. Physico-mathematical Sci. Sub 30 Oct 49, Moscow City Pedagogical Inst imeni V. P. Potemkin,

Summary, 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

Manlyva, G. M. Generalization of the criterion of A. N. Kolmogorov for an estimate for the law of distribution for empirical data. Doklady Akad. Nauk SSSR (N.S.) 69, 495-497 (1949). (Russian)

Let $X_1, \dots, X_n$ be independent identically distributed chance variables with the distribution function $F(x)$. Let $S_n(x)$ be the sample (empirical) distribution function. Define

$$D_n^+(0_1, 0_2) = \sup_{0_1 \leq x \leq 0_2} [S_n(x) - F(x)],$$

$$D_n^-(0_1, 0_2) = \sup_{0_1 \leq x \leq 0_2} |S_n(x) - F(x)|.$$

Two theorems are stated without proof. (1) Let $F(x)$ be continuous, $\theta_1^{(n)} = m_1/n = \theta_1 + o(n^{-1})$, and $\theta_2^{(n)} = n_2/n = \theta_2 + o(n^{-1})$, $0 < \theta_1 < \theta_2 < 1$. Then

$$\lim_{n \rightarrow \infty} P\{D_n^+(0_1^{(n)}, 0_2^{(n)}) \leq \lambda/\sqrt{n}\}$$

$$= \frac{1}{2\pi(1-R^2)} \int_{-\infty}^a \int_{-\infty}^b \exp[-\frac{1}{2}\theta(z_1, z_2)] dz_1 dz_2,$$

$$= \frac{e^{-\lambda^2}}{2\pi(1-R^2)} \int_{-\infty}^a \int_{-\infty}^b \exp[-\frac{1}{2}\theta(z_1, z_2)] dz_1 dz_2,$$

$$a = \frac{\lambda}{[\theta_1(1-\theta_1)]^{1/2}}, \quad b = \frac{\lambda}{[\theta_2(1-\theta_2)]^{1/2}}, \quad a' = \frac{\lambda - 2\lambda\theta_1}{[\theta_1(1-\theta_1)]^{1/2}},$$

$$b' = \frac{\lambda - 2\lambda(1-\theta_2)}{[\theta_2(1-\theta_2)]^{1/2}}, \quad R = [\theta_1(1-\theta_2)]^{1/2} / [\theta_2(1-\theta_1)]^{1/2},$$

$$\theta(z_1, z_2) = (1-R^2)^{-1} [z_1^2 + 2Rz_1z_2 + z_2^2],$$

$$\bar{\theta}(z_1, z_2) = (1-R^2)^{-1} [z_1^2 - 2Rz_1z_2 + z_2^2].$$

(2) Under the conditions of theorem 1,

$$\lim_{n \rightarrow \infty} P\{D_n^-(0_1^{(n)}, 0_2^{(n)}) \leq \lambda/\sqrt{n}\}$$

$$= \frac{1}{2\pi(1-R^2)} \int_{-\infty}^a \int_{-\infty}^b \exp[-\frac{1}{2}\theta(z_1, z_2)] dz_1 dz_2$$

$$- \pi^{-1} (1-R^2)^{-1} \sum_{k=1}^{\infty} (-1)^{k-1} e^{-\lambda^2 k^2} \times \int_{-\infty}^a \int_{-\infty}^b \exp[-\frac{1}{2}\bar{\theta}(z_1, z_2)] dz_1 dz_2,$$

$$\alpha_k = (\lambda - 2k\theta_1) / [\theta_1(1-\theta_1)]^{1/2},$$

$$\beta_k = [\lambda - 2k\theta_2(1-\theta_2)] / [\theta_2(1-\theta_2)]^{1/2}.$$

It is possible that a misprint has occurred and that one of the θ 's in (2) should be $\bar{\theta}$. The reviewer has not checked this, but it could be checked by specialization and comparison with Kolmogoroff's known result. J. Wolfowitz.

Source: Mathematical Reviews,

Vol 11 No 4

MANIYA, G.M.

Practical application of evaluating maximum bilateral deviations of an empirical distribution curve in a given interval of growth of the theoretical law. Soob.AN Gruz.SSR 14 no.9:521-524 '53.
(MLRA 7:5)

1. Goriyskiy gosudarstvennyy pedagogicheskiy institut im. N.M.Baratashvili. Predstavleno deystvitel'nym chlenom Akademii V.D.Kupradze.
(Frequency curves)

MANIYA, G. M.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.
Maniya, G. M. (Tbilisi). Standard Estimation of Normal Distribution Density According to Sample Data. 124

Mitropol'skiy, A. K. (Leningrad). Distribution Surfaces of A Type. 124

Mikhalevich, V. S. (Kiyev). Optimum Methods of Statistical Acceptance Control. 124

Pinkser, M. S. (Moscow). Amount of Information on a Random Stationary Process Contained in Another Random Stationary Process. 125

There are 2 references, 1 of which is USSR, 1 a translation into Russian.

Pugachev, V. S. (Moscow). On the Transformation of Entropy of Random Function During the Linear Transformation of Random Functions. 125-127
Card 40/80

MANIYA, G.M.

Quadratic error in evaluating the density of normal two-dimensional distribution by sampling data. Soob. AN Gruz. SSR 20 no.6:655-658
Je '58. (MIRA 11:10)

1. AN Gruzinskoy SSR, vychislitel'nyy tsentr, Tbilisi.
Predstavleno akademikom I.N. Vekua.
(Distribution (Probability theory))

16. 6100 (2403)

32516

S/044/61/000/011/039/049
C111/C444

AUTHOR: Maniya, G. M.

TITLE: The quadratic error in the estimation of the density of the normal distribution according to the data of a selection

PERIODICAL: Referativnyy zhurnal, Matematika, no. 11, 1961, 15, abstract 11V68. (Tr. Vychisl. tsentra. AN Gruz SSR, 1960, 1, 75-96

TEXT: Let $f(x)$ be the density of the normal distribution with the mathematical expectation a and the dispersion σ^2 ; let $x_1, x_2, \dots$

$\dots x_n$ be a selection from the general totality with the density $f(x)$; let $\bar{x}$ and s^2 be selection means and selection dispersion;

$$\tilde{f}(x) = \frac{1}{s\sqrt{2\pi}} e^{-\frac{(x-\bar{x})^2}{2s^2}}.$$

It is shown that there is

Card 1/2

32516

S/044/61/000/011/037/047

The quadratic error in the estimation... C111/C444

$$E \tilde{f}(x) = f(x) \left\{ 1 + \frac{1}{12n} \left[3 \left(\frac{x-a}{\sigma} \right)^4 - 18 \left(\frac{x-a}{\sigma} \right)^2 + 32 \right] \right\} + O\left(\frac{1}{n^2}\right)$$

$$D \tilde{f}(x) = \frac{f^2(x)}{16n} \left[24 \left(\frac{x-a}{\sigma} \right)^4 - 24 \left(\frac{x-a}{\sigma} \right)^2 + 11 \right] + O\left(\frac{1}{n^2}\right)$$

The limit distribution of the variable

$$\Psi(\bar{x}, s) = \int_{-\infty}^{\infty} [f(x) - \tilde{f}(x)]^2 dx$$

is investigated. It is proved that there is

$$\lim_{n \rightarrow \infty} P \{ n \Psi(\bar{x}, s) < t \} = \frac{2}{\pi} \int_0^{\pi/2} \left[1 - \exp \left(- \frac{8 \sqrt{\pi} t}{3 + \sin^2 \varphi} \right) \right] d\varphi$$

This limit distribution is put down in tables.

[Abstracter's note: Complete translation.]

Card 2/2

MANTIYA, G.M.

Notes on nonparametric estimation of the density of two-dimensional distribution. Soob. AN Gruz. SSR 27 no.4:385-390 0 '61. (MIRA 15:1)

1. Akademiya Nauk Gruzinskoy SSR, Vychislitel'nyy tsentr, Tbilisi. Predstavleno chlenom-korrespondentom AN Gruzinskoy SSR L.P. Gokiyeli.

(Distribution (Probability theory))

MANIYA, G.M.

Quadratic evaluation of the divergence of densities of normal
two-dimensional distribution according to sampling data. Trudy
Vych.tsentra AN Gruz.SSR 2:153-211 '62. (MIRA 16:1)
(Forms, Quadratic) (Mathematical statistics)

MANIYA G.M.

Transactions of the Sixth Conference (Cont.)

SOV/6371

71. Gladkov, B. V. Some Problems in the Tabulation of the Beta-Distribution 385
72. D'yachenko, Z. N. Surface of a Gamma-Type Distribution 389
73. Kagan, A. M. Some Properties of the Estimates of Maximum Likelihood 397
74. Chentsov, N. N. On the Asymptotic Effectiveness of an Estimate of Maximum Likelihood (comment on A. M. Kagan's report "Some Properties of the Estimates of Maximum Likelihood") 399
75. Krasulina, T. P. On Stochastic Approximation 403
76. Maniya, G. M. Quadratic Estimation of the Discrepancy of the Densities of a Normal Two-Dimensional Distribution From Sampling Data 407

Transactions of the 6th Conf. on Probability Theory and Mathematical Statistics and of the Symposium on Distributions in Infinite-Dimensional Spaces held in Vil'nyus, 5-10 Sep '60. Vil'nyus Gospolitizdat Lit SSR, 1962. 493 p. 2500 copies printed

MANIYA, G.M.

Quadratic error in estimating the normal distribution densities
from two samples. Trudy Vych. tsentr. AN Gruz. SSR 4:213-216 '64
(MIRA 17:6)

MANK, Antoni; GORSKI, Bronislaw, mgr inz.

Post for radiometric measurements of scintillators. Prace Inst
teletechn 3 no.1:109-110 '59.

Mańk, Antoni

82271

P/046/60/005/03/04/006

21.5200

AUTHOR: Mańk, Antoni; Malesa, Jan

TITLE: Comparative Measurements of Organic Scintillation Crystals 19

PERIODICAL: Nukleonika, 1960, Vol. 5, No 3, pp 149 - 156

TEXT: The authors describe methods applied in measuring the relative efficiency of organic scintillation crystals, which were used to establish the quality of scintillation crystals worked out at Zakład Nowych Technologii (Department of New Technologies) of the Instytut Tele- i Radiotechniczny (Telecommunications and Radio Engineering Institute) in Warsaw. The article starts with a general description of properties characteristic to scintillation crystals, and an explanation of the coefficient of energy conversion and the amplitude efficiency. Efficiency measurements can be performed by three methods: 1) differential distribution of the gamma radiation spectrum, 2) integral distribution of the gamma radiation spectrum and 3) the mean current method. A comparison of differential distribution curves for various scintillation crystals shows that an amplitude which has half the value of the Compton front ordinate is most favorable for a test. This criterion is used by nuclear enterprises in specifying

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P/046/60/005/03/04/006

Comperative Measurements of Organic Scintillation Crystals

the efficiency of scintillation crystals manufactured by the company. The method of differential distribution of electric pulses was used in establishing the properties of scintillation crystals, worked out by the Institute of Telecommunications and Radio Engineering. The primary standard was a plastic scintillation crystal NE 102, with an anthracene reference efficiency of 65%, made by nuclear enterprises. British (6256B) and Soviet (FeU-19) photomultipliers were used with maximum spectral sensitivity at 4,100 Å. The measuring circuit comprised: a proportional amplifier with an input circuit time constant of 1 microsecond, a single-channel pulse amplitude analyzer with a channel width of 1 v and a decatron electric pulse converter. Gamma irradiation of the scintillation crystals was performed by means of ¹³⁷Cs with an activity of about 0.5 μc. For comparison, all three methods were used in testing 8 samples with varying efficiencies. The efficiencies of scintillation crystals as measured by different methods are presented in Table 1. The efficiency figures vary (in comparison with the primary standard NE 102 = 1) from 0.55 to 0.86 for differential distribution, from 0.61 to 0.84 for the integral distribution, and from 0.52 to 0.80 for the mean current method. The deviations obtained by the three

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Comperative Measurements of Organic Scintillation Crystals

different methods did not exceed 10%. The authors conclude that the differential distribution method should be given preference in technological tests. At the close the authors acknowledge the cooperation of Master of Engineering T. Florkowski and Master L. Górski, workers of Katedra Fizyki II (Chair of Physics II) of the Akademia Górniczo-Hutnicza (Mining and Metallurgical Academy) in Kraków. There are 4 graphs, 1 table and 9 references: 5 Polish, 1 German, 1 English, 1 French and 1 Soviet.

ASSOCIATION: Instytut Tele- i Radiotechniczny (Institute of Telecommunications and Radio Engineering), Warsaw

X

SUBMITTED: January 1960

Card 3/3

MANK, Antoni, mgr

Gain modulation of photomultipliers by voltage variations in the
dynode. Prace Inst teletechn 6 no.2:97-103 '62.

KAMIER, Jacek, mgr inż.; KUCIA, Henryk, mgr inż.; MANK, Antoni, mgr fiz.,
adiunkt

Computer for colorimetric data. Prace Inst teletechn 6 no.3:
25-38 '62.

1. Instytut Tele - i Radiotechniczny, Warszawa, Pracownia
Pomiarów Kolorymetrycznych.

MANK, A., mgr

An objective luminance meter. Przegl telekom 34 no.10:317-318
0 '62.

MANK, A.Ya.

Occurrence of American sparrow hawk in the Baltic region.
Ornitologia no.7:479 '65.

(MIRA 18:10)

ACCESSION NR: AT4036066

S/2781/63/000/003/0237/0250

AUTHORS: Azovskiy, Yu. S.; Guzhovskiy, I. T.; Mazalov, Yu. P.; Mank, V. V.; Safronov, B. G.; Churayev, V. A.

TITLE: Inductive conical plasmoid source

SOURCE: Konferentsiya po fizike plazmy* i problemam upravlyayemogo termoyadernogo sinteza. 3d, Kharkov, 1962. Fizika plazmy* i problemy* upravlyayemogo termoyadernogo sinteza (Plasma physics and problems of controlled thermonuclear synthesis); doklady* konferentsii, no. 3. Kiev, Izd-vo AN UkrSSR, 1963, 237-250

TOPIC TAGS: plasmoid, plasma source, plasma radiation, plasma research, microwave plasma, charged particle concentration, plasma density, ionized plasma

ABSTRACT: An inductive plasmoid source with a conical single-turn coil was investigated, and the plasmoids produced by it were studied

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by recording the visible radiation of the plasmoids with a photomultiplier and by recording the plasmoid currents with magnetic probes. The plasmoid velocity was determined from the Doppler effect produced when microwave radiation is reflected from the front of the plasmoid. The charged-particle density in the plasmoid was determined by the microwave-signal "cutoff" method (I. S. Shpigel', ZhETF, 36, 411, 1959), and the mass composition of the plasmoid was determined with a Thomson mass analyzer (parabola method). The conclusions drawn from the results are as follows: 1. The sources produce hydrogen plasmoids with density exceeding $2 \times 10^{14} \text{ cm}^{-3}$ at an average velocity $3 \times 10^5 \text{ m/sec}$ (450 eV) and a total number of particles 10^{19} (approximately 0.5 cm^3). The total plasmoid energy is of the order of 1,000 J (25% of the energy fed to the coil and 8% of the capacitor-bank energy). The currents circulating in the plasmoids are of the order of 10^4 A and attenuate far away from the source. The plasma impurities amount to about 10% (only 1% in the front part of the plasmoid) and the plasmoid length is relatively

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ACCESSION NR: AT4036066

large (6--8 meters). The source efficiency can be increased by pre-ionization of the neutral gas. "The authors are grateful to Ye. F. Malayev for help in the erection of the apparatus, to I. Yu. Adamov, A. I. Skibenko, and V. I. Privezentsev for measuring the particle density, and to V. S. Voytsena for useful advice in the mass analysis of the plasmoids. Orig. art. has: 10 figures, 1 formula, and 2 tables.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 21May64

ENCL: 01

SUB CODE: ME

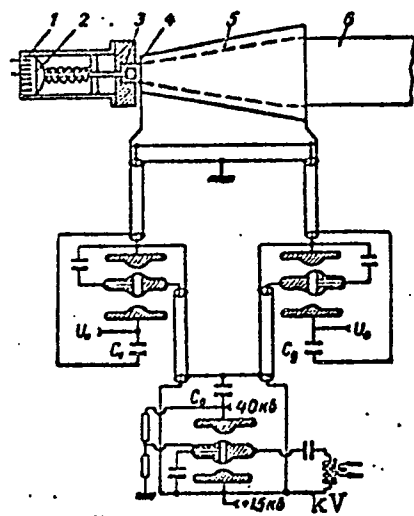
NR REF SOV: 008

OTHER: 011

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ACCESSION NR: AT4036066

ENCLOSURE: 01



Schematic diagram of installation:

1 - valve coil, 2 - valve anvil,
3 - teflon gasket, 4 - valve cap,
5 - conical coil, 6 - glass tube

Card 4/4

AZOVSKIY, Yu.S.; GUZHOVSKIY, I.T.; MAZALOV, Yu.P.; MANK, V.V.; SAFRONOV, B.G.;
CHURAYEV, V.A.

Conical induction source of plasma bunches. Zhur. tekhn. fiz.
33 no.10:1149-1158 O '63. (MIRA 16:11)

TAPASEVICH, Yu.I.; OVCHARENKO, F.D., akademik; MATYASH, I.V.; MANK,
V.V.; TORIANIK, A. I.

Nuclear magnetic resonance of the protons of water adsorbed on
montmorillonite. Dokl. AN SSSR 156 no. 4:926-928 Je '64.
(MIRA 17:6)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova
AN UkrSSR i Fiziko-tehnicheskiiy institut nizkikh temperatur AN
UkrSSR. 2. AN UkrSSR (for Ovcharenko).

SEROV, Ya.A., kand.tekhn.nauk; MANKE, G.K., inzh.; BOYKOV, V.V., inzh.

Increasing the strength of bore rods. Gor.zhur. no.1:58-60 Ja '65.

(MIRA 18:3.

1. Vostochnyy nauchno-issledovatel'skiy gornorudnyy institut (for Serov, Manke). 2. Kuznetskiy mashinostroitel'nyy zavod (for Boykov).

DOLECKI, Jerzy; MANKA, Helmuth

Phenol removal from bituminous oils. Proglemy prof hut maszyn 10
no.2:55-63 F '62.

1. Koksoprojekt, Zabrze.

KOZLOWSKI, Jan; MANKA, Helmut

Tubular furnaces in the coke-chemical industry. Probl proj hut
maszyn 11 no.2:39-49 F '63.

1. Koksoprojekt, Zabrze.

MANKA, Helmut

Designing tube furnaces. 1.2. roblary proj hut maszyn 11 no.9:
272-286 5'63

1. Koksoprojekt, Tiberi.

MANKA, Helmut

Method of obtaining fuel gases by gasifying natural oil. Problemy
proj hut maszyn 13 no.3:65-72 Mr '65.

• 1. Koksoprojekt, Zabrze.

MANKA I.

Novšie poznatky včasnej diagnózy gynekologických karcinómov.
/Newer methods in early diagnosis of genital cancer in women/
Sloven lekár 12:7 July 50 p. 387-90.

1. Of the State Institute for Research and Treatment of Tumors
in Bratislava (Head—William Thurzo, M.D.).
CLML Vol. 20, No. 2 Feb 1951

MANKA, I.; KLAUBER, E.

Unreliability of pain test for malignancy. Bratisl. lek. listy 33
no.8:587-590 1953. (CJML 25:5)

1. Of the Institute of Oncology, Bratislava.

MANKA, I; MUNGYEROVA, G.

An unusual finding after a not recognized perforation of the uterus. Brat.lek.listy 35, Vol.2 no.4:210-212. 31 Aug '55.

1. Z. Gyn.odd. Onkologickeho ustavu v Bratislave, prednosta primar dr. E. Klauber, z Laboratoria experimentalnej cytologie SAV v Bratislave, prednosta akademik SAV I. Stanek.

(UTERUS, perforation
in diag.curettage, recognized during later ovarian
surg.)

MANKA, I. MUDr.; BARDOS, Augustin, MUDr. (Bratislava, Zochova 5.)

Conservative treatment of postoperative recurrence of relative incontinence with dondren. Cesk. gyn. 24[38] no.5:369-372 June 59.

1. I. gyn.-por. klinika LFUK v Bratislave, prednosta prof. Dr. S. Stefanik.
(URINATION DISORDERS, ther.
granugenol oil prep. in postop. incontinence in women (Cz))
(SCLEROSING SOLUTIONS, ther. use
granugenol oil prep. in postop. incontinence in women (Cz))

MANKA, I.; ZILAK, O.

Relaxants in our gynecological practice. Cesk. gyn. 28 no.5:
343-347 Je '63.

1. I zen. a por. klin. lek. fak. UK v Bratislave, prednosta
prof. dr. S. Stefanik.

(GYNECOLOGY) (DECAMETHONIUM COMPOUNDS)
(TUBOCURARINE) (GALLAMINE TRIETHIODIDE)
(SUCCINYLCHOLINE) (LAPAROTOMY)

MANKA, I.

Simultaneous presence of carcinoma of the cervix and extra-uterine pregnancy. Cesk. gynec. 43 no.10:762-763 D ' 64

1. Vysk. ustav onkologický v Bratislave.

MANKA, I.

Controlled colpomicroscopy in the diagnosis of precancerous conditions and in early stages of cancer of the cervix of the uterus. Bratisl. lek. listy 45 no.6:378-384 30 S '65.

1. Katedra onkologie a radiologie Lek. fak. Univerzity Komenského v Bratislave (veduci doc. MUDr. V. Thurzo) člen korr-sp. Slovenskej akademie vied.

MANKA, J.,

Manika J., Wojdasiewicz W. Polassium Guaiscol Sulphenates as
Impregnating Media for Leather.

"Ciokole jako środki impregnujące do skóry". Przegląd Skórzany.
No. 7, 1953, pp. 161-183, 1 tab.

It has been ascertained that thiocols (polassium guaiscol sulpho-
nates) LP-2, LP-3 and ZL-109 with thio end groups and differing in
molecular weight only, are eminently suitable for impregnating leather.
LP-2 thiocol must, since it has, contrary to LP-3 and ZL-109 thiocols,
a particularly high viscosity (400 poise at 25°C), be diluted, prior to
use, by means of methyl-ethyl ketone and toluene. Polymerisation takes
place, in the case of LP-2, in the presence of Isopropylene Isoperoxide
and, in the case of LP-3 and ZL-109, in the presence of furfural and
oxide of lead. The authors specify a method for impregnating leather
by means of thiocols and draw attention to its advantages.

~~MANERA~~ J.

Distr: 482c(j)

Gutta-percha from the root cortex of *Euonymus verrucosus*. 1624 Manka (Inst. Przemysłu Skórzanego, Warsaw). Inst. Przemysłu Skórzanego 1, 37-57(1955) (English summary).—Samples (60 g.) of the root cortex of *E. verrucosus* (I) were extd. in the grain size range from 0.5 to 5.0 mm. with 800 ml. of trichlorethylene (II), C_2H_5 , or aviation (b. 55-100°) or extn. (b. 60-120°) gasoline in a 1-l. Soxhlet app. (III), in 2-l. 3-necked Witt's flask (IV) with stirrer (160 r.p.m.). I, grainng 1.5-3.0 mm., extd. with II in III for 8 hrs., yielded 14.16% of gutta percha (V) (with respect to a dry cortex) contg. V hydrocarbons (VI) 63.81-77.81%, I, grainng 1.0-1.5 mm., extd. with C_2H_5 and II in IV for 14 hrs., yielded 14.92 and 17.57% of V contg. VI 67.40 and 60.02%, resp. Analysis of V obtained in a gave: moisture 1.03-6.77, ash 0.28-0.61, gasoline (b. above 100°)-insol. substances 0.33-5.71%. A.S.

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MANKA, JOZEF

78

✓ Terephthalic acid from *p*-xylene chloride. Jozef Manka, ³
 Henry Tomaszewski and Marek Wajnryb, (Inst. Technol.,
 Lodz, Poland). *Zeszyty Nauk. Politech. Lodz*, No. 9, Chem.
 No. 3, 31-43 (1965) (English summary).—The oxidation of
 $p\text{-C}_6\text{H}_4(\text{CH}_2\text{Cl})_2$ (I) to $p\text{-C}_6\text{H}_4(\text{CO}_2\text{H})_2$ (II) by HNO_3 of vari-
 ous concns. was studied. With 19.1, 28.8, and 35.0% HNO_3 ,
 resp., were obtained mixts. of I and II (and by-products)
 contg. 41.7, 56.7, and 59.7% II, and with actual yields of
 26.6, 40.2, and 42.3% II, resp. With 71.7% HNO_3 , the
 yields were better. Presumably this is not an effect of the
 concn. alone; the b.p. of the concd. HNO_3 also makes it pos-
 sible to run the reaction at 117-21°. Samples were taken
 every 30 min. in reactions which lasted 1-3 hrs. It was pos-
 sible to obtain a mixt. of I + II contg. 60% II, and by re-
 peated oxidation this value could be pushed up to about
 80%. This process can be further improved by first hy-
 drolyzing the I with a H_2O :I ratio of 3:1, then oxidizing the
 hydrolysis products in 3 steps with 43.7 and 84% HNO_3 ,
 resp., and HgCl_2 as catalyst. Thus are obtained final prod-
 ucts contg. over 90% II, with an actual yield of about 60%
 II. These products can be esterified without any trouble ac-
 cording to Ullman and Schlöpfer [Ber. 37, 2003 (1904)]. 27
 references. Werner Jacobson

PM

MANKA, J.

The manufacture of artificial facings for bootlegs.

P. 194, (Przegląd Skorzany. Vol. 11, no. 1, Aug. 1956, Lodz, Poland)

Monthly Index of East European Accessions (MEAI) LC. Vol. 7, no. 2, Feb. 1968

SNAJD, V., prof.; ANTOS, J.; LUKAS, V.; BOUDA, J.; BARDOS, A.; MANKA, J.;
HAJEK, A.; PACIN, Z.; SKACEL, K.; STIKSA, E.; SIKL, O.; SKODA, V.

Clinical aspects of carcinoma of the endometrium. Cesk. gynek. 27
no.3:173-177 Ap '62.

1. I gyn. klin. fak. vseob. lek. KU v Praze, prednosta prof. MUDr.
K. Klaus.

(UTERUS NEOPLASMS)

MANKA, Karol; GIERCZAK, Maria

Some new species and forms of fungi. Prace nauk roln i
lesn 15 no.2:119-130 '63.

1. Katedra Fitopatologii Lesnej, Wyzsza Szkola Rolnicza,
Poznan.

MANKA, Karol

Experiments in further improvement of the modified Warcup method
of isolating fungi from the soil. Prace nauk roln i leśn 17 no.1:
29-45 '64.

1. Department of Forest Phytopathology, College of Agriculture,
Poznan.

MANRA, T.

"Radio Communication in Sports Aeronautics" p. 55 (KRIDLA VLASTI, No. 3, February, 1954, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954, Unclassified

MANKA, T., inz.; SILOVSKY, K., inz.; TESAR, S., inz.

Design of the basic equipment for production of the VUS-62 prestressed railroad sleepers. Inz stavby 11 no.6:218-223
Je '63.

1. Vyskumny ustav stavebnictva, Bratislava (for Manka). 2. Katedra pruznosti a pevnosti, Slovenska vysoka skola technicka, Bratislava (for Silovsky and Tesar).

137 AND 138 SERIES										139 AND 140 SERIES									
PROCESSES AND PROPERTIES INDEX																			
BE-MANKASH B-II-5 Elimination of excess of ammonia from cuprammonium cellulose solutions for spinning. A. FARKHOV, M. KATCHINA, and E. MANKASH (FROG. Org. Chem., 1937, 4, 184-185).—The NH_3 is present in combination with cellulose (I) and with O_2 in adsorption on (I), and in solution. The amount adsorbed is expressed by pC^p, where p is a const. for a given (I), and O is the (I) concn. Elimination of dissolved NH_3 from the solutions should be accomplished at pressures < the partial NH_3 pressure.																			
458.514 DETAILORICAL LITERATURE CLASSIFICATION																			
137 AND 138 SERIES										139 AND 140 SERIES									
137 AND 138 SERIES										139 AND 140 SERIES									

23

Evaporation of volatile solvents from solutions of cellulose esters. I. Evaporation in a resting medium. A. Pakshver and P. Minkashin. *Phys. Chem.* 11: 888 R. 11, 127 (1968). The initial rate of evapn. is identical for pure solvents and solns. but the av. rate of evapn. for solns. is less than that for the solvents when EtOH-Et₂O mixts. contain more than 20% of cellulose nitrate, or when Me₂CO contains more than 4% of cellulose nitrate or more than 10% of cellulose acetate. The retardation of evapn. from solns. is due to formation of a surface film. II. Evaporation in an air current. *Ibid.* 134-41. The evapn. is analogous to the cooling process, and is governed by the same empirical formulas. In an air current the evapn. of EtOH + Et₂O and of Me₂CO is retarded even by small amts. of cellulose esters. B. C. P. A.

ASAC LITERATURE CLASSIFICATION

117 AND 120 SERIES										119 AND 121 SERIES											
PROCESS AND PROPERTIES INDEX																					
COMMON ELEMENTS		Ca 2 3 Diffusion of vapors of organic solvents through films of cellulosic esters. A. Fakhiver and R. Markash. <i>J. Phys. Chem.</i> (U. S. S. R.) 11, 400-9 (1938).—Diffusion of the vapors of water, EtOH, Et₂O, Me₂CO and CH₂Cl₂ through films of acetyl-, nitro- and benzylcellulose was investigated, and equations for calcg. the diffusion coeff. are given. The diffusion coeff. increases with increase in thickness of the film. The diffusion coeff. also varies with time (decreasing) because of the swelling of the film, but a definite relation between the coeff. and the diffusion coeff., but the method of prepn. of the film greatly affects the diffusion coeff., which decreases with increase in time and temp. of drying. The degree of swelling is practically unaffected by the solvent but the chem. substances of the film and of the vapors absorbed are important factors. Data are tabulated and plotted. A. A. Podgoruv																		COMMON VARIABLES INDEX	
ADD-56A METALLURGICAL LITERATURE CLASSIFICATION																					
FROM SYNDICATE										FROM BOWMAN											
SERIES #4										SERIES ONE ONE ONE											

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESS AND PROPERTIES INDEX																			
GA The vapor pressures over the solutions of cellulose ethers. A. Pukshver and B. Manashov, <i>J. Phys. Chem.</i> (U. S. S. R.) 11, 864-70 (1938).—A new app. for the direct detn. of vapor pressures above volatile liquids, highly viscous liquids and gels with an accuracy of ≈ 10 mm. Hg is described. It consists of a 100-cc. bulb (made out of a pipet) whose ends a and b are bent. The end b is connected by means of rubber tubing to a 5-cc. bulb (made out of a pipet) which in turn is connected to a high glass tube. The end a is connected by means of rubber tubing to a high glass rod behind which is placed a man. scale. This app. can be used also for measurements of the decrease of vapor pressure in the presence of adsorbing substances, for the study of the kinetics of drying and of swelling of gels, and for detg. the total vapor pressures of complex mixts. of volatile substances. Total vapor pressures over mixts. of alc. with ether (from 15 to 93.4 mol. % of alc.), and with acetone (from 12 to 93 mol. % of alc.) at 10-50° were investigated. The results obtained did not check well with the empirical formula $p = p_s^s$, because s did not remain const. for the given mixt., but decreased with increase in the vapor pressure over the mixt. Closest results were obtained with $s = 0.7$. The vapor pressures of solvents over solns. of the ethers of cellulose were also detd. with solvents: 2:3 mixt. of alc. and ether, acetone, and mixt. of alc. and acetone (wt. 17:83). For concn. of ethers of cellulose up to 70% (acetylcellulose) or up to 60% (nitrocellulose) the vapor pressure of the solvent equals that of the pure solvent. A depression is observed only for solns. that contain less of the solvent than is necessary for the formation of mol. compds. with the ethers of the cellulose. Four references. W. R. Henn																			
ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
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The kinetics of drying of cinematographic films. A. B. Pukshyev and R. K. Mankash. *Sverdlovsk. Khim. Obshchestvo im. D. I. Mendeleeva* 1930, No. 3-4, 62; *Khim. Referat. Zhur.* 1930, No. 7, 137; cf. C. A. 33, 4419P.--The initial rate of drying of cellulose nitrate and cellulose acetate films in acetone and in other volatile solvents is the same as that of the solvents alone. The rate decreases as the drying proceeds. After a 50% concn. of cellulose nitrate or 65-70% cellulose acetate is reached, the rate of drying decreases very rapidly.
W. R. Henn

1ST AND 2ND ORDERS										PROCESSING AND PROPERTIES INDEX										3RD AND 4TH ORDERS									
COMMON ELEMENTS										COMMON ELEMENTS										COMMON ELEMENTS									
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An apparatus for rapid determination of pH by the ballistic method. <i>E. Mankin, Lab. Probl. (U. S. S. R.) 1939, No. 6, 13-15.</i>—Disadvantages that are encountered with the Poggenberg's method for pH detn. can be avoided by use of the proposed new app. The app. consists of a 10-amp. mirror ballistic galvanometer, 3 condensers each having a capacity of 0.5 microfarad, 1 three-contact switch, 2 two-contact switches, and a normal Weston element. The soln. under investigation, satd. with quinhydrone, with a Pt electrode is connected by means of an agar-agar syphon (2% soln. of agar-agar in a satd. KCl soln.) through an unsatd. KCl soln. with a calomel or quinhydrone electrode. The e. m. f. of the electrode is detd. For a cell consisting of a satd. calomel electrode, and of the soln. under investigation satd. with quinhydrone $pH = (0.4541 - E_e)/0.0577$ where E_e is the e. m. f. of the electrode in v. For a double quinhydrone cell, in which a quinhydrone electrode is taken for comparison with a standard Weibei soln. ($pH = 2.04$, consists of 0.01 N HCl soln. and 0.09 N KCl soln., or of other buffers with known pH), $pH = 2.4 + (E_e/0.0577)$. These formulas are valid for 18°. At other temps. for a quinhydrone-calomel cell $pH = [0.4541 - 0.00033(t - 18) - E_e]/[0.0577 + 0.0002(t - 18)]$. With H₂ electrodes pH is detd. in the same manner, but for dil. nonbuffer solns. a condenser of small capacity should be used, such that a complete satn. from the cell under investigation should not take more than 1 min. In case of oxidizing media the same arrangement is used with glass electrodes. Close agreements in pH values were obtained by the Poggenberg and the ballistic methods.																													
ASB-ELA METALLURGICAL LITERATURE																													
W. R. Henn																													

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EE

Evaluation of solvents for cellulose ester lacquers from the rate of evaporation. A. Pakshver and R. Man-
kash. *Trans. Inst. Chem. Tech. Leningrad* (U. S. S. R.)
1940, No. 3, 180-8. — During the evapn. of the individual
liquids the temp. of the liquid decreases gradually, reach-
ing T_{min} (the "temp. of the wet thermometer") after a
definite t_{min} . The following equations are proposed for
calc. the temp. of evapn. with time and of T_{min} and t_{min} .
 $\lambda F_1 \sigma [(aT + b)/T] (M/PR) d\theta = [\sigma F_1 (aT + b)/T] (M/$
 $PR) d\theta - W_0 dT + \alpha F_2 (T_0 - T) d\theta$ (1) where λ is the forming surface films (which hinder the evapn. process) is
heat of evapn., F_1 the surface of evapn. in sq. cm., F_2 the more complex, but even in such cases the change of the
total surface through which the heat passes to the liquid, temp. of evapn. can be calcd. from (1) and (2). In the
 T_0 the temp. of outside air, σ the coeff. of diffusion in sq. expts. the changes of the temps. of the following liquids
cm./sec., α the coeff. of heat transfer in cal./g. sec., M is the mol. wt. of the 50.1%), EtOH (b 78.0°) and a 15.5% soln. of acetyl-
abs. temp., b and c are const., cellulose in acetone. The evapn. velocity was detd. from
evapn. liquid, P the pressure of the surrounding medium, the loss of wt. of the liquid in Petri dishes. Simultane-
 θ the time and W_0 the initial wt. of the evapn. liquid in g. the loss of wt. of the liquid in Petri dishes. Simultane-
This equation can be simplified for $dT/d\theta = [\sigma F_1 (aT + b)/T] (M/PR) - (W_0 - W_0')/c$ (2), where W_0' corresponds to the initial wt. of
the liquid to the following form $dT/d\theta = [\sigma F_1 (aT + b)/T] (M/PR) - (W_0 - W_0')/c$ (Cu-constantan) to an accuracy of 0.3°. The temps. of
 t_{min} can be calcd. from $T_{min} = [2\alpha T_0 - \sigma \lambda b (M/PR)/2\alpha]$ (11) for measuring the properties of solvents used for
the prepn. of lacquers from cellulose esters and kinodlin
evapn. G reaches a const. value G_{min} when the temp. of evapn. reaches T_{min} . The evapn. of volatile liquids from solns. take into consideration the initial wt. of the lacquer W_0 .
W. R. Henn

1ST AND 2ND COLUMNS										PROCESSES AND PROPERTIES INDEX										3RD AND 4TH COLUMNS									
BC B-2-P Evaluation of suitability of solvents for cellulose ester variations, based on their velocity of evaporation. A. B. PARSONS and E. K. MAN-KAM. (Proc. Roy. Soc. China, 1940, 7, 251-253). Experiments connecting the rate of evaporation of solvents with the room temp., min. temp. attained during evaporation, and time required for attainment of this min. temp. are derived; they agree with experimental value in the cases of COMe, EtOH, and COMe₂ solutions of cellulose acetate. R. T.																													
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1ST AND 2ND ORDERS										100 AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
2343. KINETICS OF CATALYTIC CRACKING OF PARAFFIN OVER ACTIVATED ALUMINIUM SILICATE. Mankash, E. K., Borisova, G. P., Orochko, D. I. and Frost, A. V. (Neftyanoe Khoz, 1946, <u>24</u>, No. 6-7, 24-34; <u>hem.</u> Abstr., 1947, <u>41</u>, 2879-80). The cracking of wax (a Fischer-Tropsch product m. 28-42° and with molecular weight 320) in a reaction tube packed with activated aluminium silicate catalyst conforms closely to equations for a unimol., consecutive reaction. The velocity constant slightly decreases at low feed rates. The apparent energy of activation calculated, from these equations, is 13,550 for the overall decomposition of the feed, 16,400 for the decomposition of cracked gasoline, 11,900 for the formation of gasoline and 15,000 cal./mol. for the decomposition of the residue recycled to the second pass. The difference in the values for decomposition and formation of gasoline explains why maximum yield of gasoline is lower with increase in temperature. Formulas are derived for calculating the velocity constants of catalytic cracking as a function of temperature. Calculated data on the yield of products																			
COMMON ELEMENTS																			
COMMON VALUABLE INDEX																			
MATERIAL INDEX																			
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
EIGHTH EDITION																			
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and the optimal volumetric velocity corresponding to maximum gasoline
yield are tabulated along with experimental values. They agree fairly
well.

MANKASH, Ye. K.

180T31

USSR/Chemistry - Polyamide Fibers

Apr 51

"Kinetics of the Heterogeneous Hydrolysis of Polyamide Fibers in Acids," Ye. K. Mankash, A. B. Pakshver, Chemicotech Inst, Ivanovo

"Zhur Fiz Khim" Vol XXV, No 4, pp 468-474

Gives eq describing heterogeneous acid hydrolysis of polyamide and cellulose fibers. Eq permits estn of mol structure of high polymer fibers. Mol structure det susceptibility of fiber to hydrolysis. Lists series of fiber types according to deg of mol orientation as indicated from kinetics of hydrolysis.

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180T31