

ZAGREBIN, D. V.

PA 246746

USSR/Astronomy - Ephemerides, Moon Jan/Feb 53

"Method of Correction of Brown's Tables in Order to Improve the Moon's Ephemerides," D.V. Zagrebin, Inst of Theoretical Astron, Acad Sci USSR

"Astron Zhur" Vol 30, No 1, pp 93-99

Derives formulas for computations of corrections of values of longitude, latitude and parallax of the moon in Brown's tables. Author's method was compared with that of D.H. Sandler (M.N., 3, 6, (1951)) by E.A. Mitrofanova (Bull. Inst. Teor. Astr., 5, 4 (1952)). Received 5 Jul 52.

246746

ZAKREBIN, D.V.; SHUMIKHINA, K.G.

Tables of basic precession values for 1950-2000. *Bul. Inst. teor.
astron.* 5 no.10:682-693 '54. (MIRA 8:4)
(Precession)

ZAGREBIN, D.V.

PHASE I BOOK EXPLOITATION

SOV/5461

Akademiya nauk SSSR. Institut teoreticheskoy astronomii.

Astronomicheskiy yezhegodnik SSSR na 1962 g. (Astronomical Yearbook of the USSR for 1962) Moscow, Izd-vo Akademii nauk SSSR, 1960. 647 p. Errata slip inserted. 2,000 copies printed.

Sponsoring Agency: Institut teoreticheskoy astronomii Akademii nauk SSSR.

Resp. Ed.: M. F. Subbotin, Director of the Institute of Theoretical Astronomy of the Academy of Sciences USSR, Corresponding Member, Academy of Sciences USSR.

PURPOSE: This book is intended for astronomers and geophysicists.

COVERAGE: The Astronomical Yearbook of the USSR for 1962 has been compiled in accordance with changes proposed by the International Astronomical Union to member organizations at its meeting in 1958. In addition to usual

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Astronomical Yearbook (Cont.)

SOV/5461

information on the Sun, Moon, Earth, and planets, the Yearbook contains the ephemerides of the lunar crater Moesting A, which until 1960 were published by the Berliner Astronomisches Jahrbuch, [Berlin Astronomical Yearbook], and whose regular publication has now been undertaken by the Institute of Theoretical Astronomy of the USSR at the request of the Union's Committee on Ephemerides. The solar, lunar, and planetary coordinates in the Yearbook are based on data supplied by the British Nautical Almanac as stipulated by the Astronomical Union. The material in the Yearbook was compiled and prepared by the following scientists: computation of ephemerides of the lunar crater Moesting A on high-speed computer BEMS at the Vychislitel'nyy tsentr AN SSSR (Computer Center AS USSR) - D. K. Kulikov; reduction of solar and lunar ephemerides - A. G. Mal'kova and G. A. Mazing; computation of nutation on high-speed computer BEMS - D. V. Zagrebin, O. M. Gromova and A. Ya. Faletova; computation of reduction values of visible positions of ten-day and near-polar stars - M. B. Zheleznyak and M. A. Fursenko; preparation of original data on visible positions of ten-day and near-polar stars -

Card ~~2/16~~

Astronomical Yearbook (Cont.)

SCV/5461

E. A. Mitrofanova (in charge), O. M. Gromova, G. A. Mazing, T. I. Mashinskaya, G. M. Poznyak, K. G. Shumikhina, and P. A. Gutkina; heliocentric coordinates of the large planets - O. M. Gromova, A. G. Mal'kova; reduction values (trigonometric system) - E. A. Mitrofanova, and K. G. Shumikhina; mean positions of stars - E. A. Mitrofanova, M. B. Zheleznyak, O. M. Gromova, K. G. Shumikhina, M. A. Fursenko; solar and lunar eclipses - E. A. Mitrofanova, M. A. Fursenko; planetary configurations - E. A. Mitrofanova, O. M. Gromova; ephemerides for physical solar observations - P. A. Gutkina, T. I. Mashinskaya; ephemerides for physical lunar observations - G. A. Mazing, P. A. Gutkina, K. G. Shumikhina; ephemerides of the illumination of the discs of Mercury and Venus - T. I. Mashinskaya, G. M. Poznyak; ephemerides for physical observations of Mars - G. M. Mazing, T. I. Mashinskaya; ephemerides for physical observations of Jupiter - T. I. Mashinskaya, E. A. Mitrofanova; Saturn's rings - G. A. Mazing, T. I. Mashinskaya; sunrise and sunset - A. I. Frolova; rising and setting of the moon - P. A. Gutkina and K. G. Shumikhina; altitudes and azimuths of the Polar Star - A. G. Mal'kova

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SOV/5461

Astronomical Yearbook (Cont.)

and K. G. Shumikhina; table for determining latitude by the altitude of the Polar Star - K. G. Shumikhina and P. A. Gutkina; preparation of manuscript for publication - V. G. Kudinova; review and edition of "Explanatory Notes", D. K. Kulikov. There are no references.

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| Orthogonal Equatorial Coordinates of the Sun (1950. 0) | 30 |
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ZACREBIN, Dmitriy Vladimirovich

[Introduction to astrometry; basic problems in spherical
astronomy] Vvedenie v astrometriiu; osnovnye voprosy sfe-
richeskoj astronomii. Moskva, Nauka, 1966. 477 p.
(MIRA 19:1)

ZAGREBIN, D. V.

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SON/5721

Vzenoyuznaya astronomicheskaya konferentsiya.

Trudy 14-y Astronomicheskoy konferentsii SSSR, Kiyev, 27-30 maya 1958 g.
(Transactions of the 14th Astronomical Conference of the USSR, Held in Kiyev
27-30 May 1958) Moscow, Izd-vo AN SSSR, 1960. 440 p. Errata slip inserted.
1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Observatoriya astronomicheskaya observatoriya
(Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USSR; Ed. of
Publishing House: N. K. Zaychik; Tech. Ed.: R. A. Zamarayeva.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly
those interested in astronomical research.

COVERAGE: This publication presents the Transactions of the 14th Astronomical
Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports
and 55 scientific papers presented at the plenary meeting of the Conference

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Transactions of the 14th Astronomical (Cont.)

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the committees, the agenda and the list of participants at the Conference. A brief summary in English is given at the end of each article. References follow individual articles. The Presidium of the Astronomical Committee (Chairman M. S. Zverev), which supervised the preparation of this publication, expresses thanks to the members of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskii, A. B. Osi-gina, and Kh. I. Potter.

TABLE OF CONTENTS:

Foreword

Address by A. A. Mikhaylov, Chairman of the Astronomical Council of the Academy of Sciences USSR

REPORTS OF THE ASTRONOMICAL COMMITTEE AND SUBCOMMITTEES
INFORMATION ON ASTRONOMICAL WORK PRESENTED BY VARIOUS INSTITUTIONS

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3

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Transactions of the 14th Astronomical (Cont.)

SOV/5721

- Vasil'yev, V. M., and D. D. Polozhentsev. Application of Punch-Card Machines for Calculations Made by the Time Service at the Main Astronomical Observatory 328
- Yesipova, M. I., and D. V. Zagrebin. Solution of the Problem of Compiling a Catalogue of Right Ascensions of 358 Stars, Using Punch-Card Machines 332
- Yesipova, M. E. The Calculation of Ephemerides of Apparent Right Ascensions of Stars in the Time Service Program 335
- Khrushchev, L. I. A Comparison of Errors in Time Determination Made With Different Astronomical Instruments 337
- Pil'nik, G. P., A. A. Tochilina, and N. S. Blinova. One Case of the Determination of Longitude 340
- Afanas'yeva, P. M. The Effect of Wind on the Results of the Astronomical Determination of Time 345

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ZAGREBIN, D.V.; MITROFANOVA, E.A.; POZNYAK, G.M.

Determining the difference between the ephemeris and universal
standard time by means of observations of lunar occultations of stars.
Bul. Inst. teor. astron. 6 no.1:57-65 '55. (MIHA 13:3)
(Time--Systems and standards) (Occultations)

SOV/124-58-10-11139

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 61 (USSR)

AUTHOR: Zagrebn, I. S.

TITLE: Investigation of the Motion of a Liquid Over a Drop in a Trapezoidal Channel (Issledovaniye dvizheniya zhidkosti na perepade v kanale trapetseidal'nogo secheniya)

PERIODICAL: Tr. Kishinevsk. s.-kh. in-t, 1957, Vol 15, pp 43-67

ABSTRACT: The author presents the results of laboratory investigations, and empirical relationships based upon them, concerning a series of questions of the hydraulics of drops in trapezoidal channels. The following are examined: 1) The distribution of velocities and pressure in the inlet portion of the drop, 2) the free-surface profile in the head-water and tail-water channel portions, 3) the depths at the brink of the drop, 4) the distance upstream from the brink of the drop at which the depth equals the critical depth, 5) the qualitative picture of the free outfall, 6) the value of the coefficient ϕ , 7) the lengths of the hydraulic jump with a vertically notched and a sloping drop, and 8) the respective depths in the tail water.

Card 1/1

Bibliography: 19 references.

T. N. Astaficheva

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ZAGREBIN, I.S., Cand Tech Sci -- (diss) "Study of movement
of ~~a liquid~~ ^{fluid down stepped conductors} ~~falling at intervals~~ in the channel of a
trapezoidal section." Odessa, 1958, 16 pp. (Min of Higher
Education UkSSR. Odessa ^{Construction} Engineering ~~Building~~ Inst) 150 copies
(SL, 32-58, 108)

- 24 -

L 4523-66 ENT(m)/FCC/T IJP(e)

SOURCE CODE: UR/0048/35/X19/009/1746/1748

ACC NR: AP3024650

AUTHOR: Zheleznykh, I.M.; Zagrebin, V.A.

ORG: none

TITLE: Resonance interaction of cosmic ray neutrinos with electrons /Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31 August 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 9, 1965, 1746-1748

TOPIC TAGS: secondary cosmic ray, neutrino, muon

ABSTRACT: The authors have calculated the flux at 2 km underground of muons arising from the resonance interaction of cosmic ray electronic antineutrinos with atomic electrons through the intermediary of a hypothetical boson of mass M between 0.5 and 2 MeV. Fluxes were calculated for various angular ranges and are presented graphically as functions of θ . Three sets of curves are presented, giving separately the muon fluxes due to electronic antineutrinos arising from muon decay, to electronic antineutrinos arising from K_{e3} decay, and to χ -neutrinos arising from π meson decay in accord with the theory of V.E. Marshak et al. (Nuovo cimento, 32, 40A (1964)) involving a second intermediate boson of mass $(M_2) \approx 1/4 \mu$. The muon flux does not vary greatly with depth - a change of 2 to 3 km in depth alters the muon flux by less than 20%. The largest muon fluxes calculated in this paper are of the order of 0.01 muons m^{-2} day.

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L 6523-66

ACC NR: AP5024650

The authors thank G.I. Zetserin and H.A. Markov for valuable discussions. Orig. art. has: 6 formulas and 3 figures.

SUB CODE: RP/ SUBM DATE: 00/ ORIG REF: 001/ OTH REF: 008

OC

Card 2/2

FURCHIKOV, Nikolay Yevgrafovich; ZAGREBIN, Vasilii Vasil'yevich;
DMITROVSKIY, A.N., red.; KAN, P.M., red. Izd-vo BOBROVIL, V.A.,
tekhn. red.

[Industrial section on the introduction of new techniques in
ship repair plants] Proizvodstvennyi uchastok po vnedreniiu
novoi tekhniki na sudoremontnom zavode. Moskva, Izd-vo "Rechnoi
transport," 1959. 18 p. (MIRA 13:5)
(Ships--Maintenance and repair)

1. ZAGREBIN, V. V. Eng.
2. USSR (600)
4. Bituminous Materials
7. Bituminous surface coatings for metal vessels. Rech. transp. 12 no. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

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In memory of Aleksandr Nikolaevich Ivanov. Geog.v shkole 19 no.1:
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(Ivanov, Aleksandr Nikolaevich, 1883-1955)

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vegetation and rocks in the Daldyn region of the Yakutian
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Finishing of kitchen furniture with nitro enamel. Der. prom. 7
no.2:20-21 P '58. (MIRA 11:1)

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(Furniture) (Paint)

~~ZAGREBINA~~
AGAFONOVA, S.Ya.; ZAGREBINA, Ye.A.

Cases of epidemic hemorrhagic fever. Sov.med. 21 no.12:(87-86 D
'57. (MIRA 11:3)

1. Iz kafedry propedeutiki vnutrennikh bolezney (zav.-prof. S.V. Shestakov) Kuybyshevskogo meditsinskogo instituta i iz terapevticheskogo otdeleniya (zav. Ye.A.Zagrebina) Borskoy rayonnoy bol'nitsy Kuybyshevskoy oblasti.

(EPIDEMIC HEMORRHAGIC FEVER, case reports (Rus)

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(Min Higher Educ USSR, Moscow Order of Lenin Chemicotechnological Inst im D. I. Mendelejev), 150 copies (KL, No 3, 1959, 110)

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Properties of gypsum calcined at high temperatures. Ukr. khim.
zhur. 24 no.4:528-532 '58. (MIRA 11:10)
(Gypsum)

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A.V., kand.tekhn.nauk; YAMPOL'SKIY, E.M., inzh.

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Surgical treatment of pheochromocytoma. *Khirurgia* 40 no.7:137
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analysis of balances and reports for 1961. Fin. SSSR. 23
no.1:42-49 Ja '62. (MIRA 15:2)
(Industrial management)
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TURBIN, M.V.; ZAGREKOVA, V.M. [Zahrekava, V.M.]

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(MIRA 14:1)

(WHEAT BREEDING)

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Biol. Inst. biol. AN BSSR no.5:271-279 '60. (MIRA 14:7)
(WHEAT BREEDING)

ZAGREKOVA, V.N. [Zagrekava, V.N.]

Comparative effectiveness of methods for increasing fertility
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(FERTILIZATION OF PLANTS)

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Effect of foliar trace element feeding on the setting of seeds in interspecific hybridization of wheat. Vestsi AN BSSR. Ser. bial. nav. no. 2:27-32 '58. (MIRA 11:8)

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(Plants, Effect of boron on)

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Development of tetraploid forms of sugar beets. Report No.1:
Preparation and selection of C_4 polyploids during the first
year of vegetation. Biol. Inst. biol. AN BSSR no.6:233-238
'61. (MIRA 15:3)

(SUGAR BEET BREEDING)

TURBIN, N.V.; ZAGREKOVA, V.N.

Studying the effect of certain growing conditions, heterologous
pollination, and double pollination on the setting of seeds in
remote hybridization of wheat and rye. Biol. Inst. biol. AN BSSR
no. 3:170-176 '58. (MIRA 13:7)
(WHEAT BREEDING) (RYE BREEDING) (FERTILIZATION OF PLANTS)

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(The fitter and gager.)

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SHIRIN, A.Sh., kand. tekhn. nauk; REZNITSKIY, L.M., kand. tekhn. nauk; ZAGRETSKIY, P.P., kand. tekhn. nauk, rezensent

[Cutting corrosion- and heat-resistant steels and alloys and titanium alloys] Obrabotka rezaniem korrozionnoostoiokikh, zharoprochnykh i titanovykh stali i splavov. Moskva, Izd-vo "Mashinostroenie," 1964. 446 p. (MIRA 17:8)

ZAORETSKIY, P. P.

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The turner and gager.

DLC: TJ1166.23

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

ZAGRETSKIY, Pavel Pavlovich; KHARCHENKO, Konstantin Simonovich; MITRO-
FANOV, V.P., inzhener, retsenzent; VAKSER, D.B., dotsent, redaktor;
NIKITIN, P.S., inzhener, redaktor; LEYKINA, T.L., redaktor;
PETERSON, M.W., tekhnicheskii redaktor.

[Fitter and tool maker] Slesar'-lekal'shchik. Moskva, Gos.nauchno-
tekh.izd-vo mashinostroit.lit-ry, 1955. 319 p. (MLRA 8:10)
(Machine-shop practice)

ZAGRETSKIY, Pavel Pavlovich; KHARCHENKO, Konstantin Simonovich;
KISELEV, B.M., retsenzent; KABANOV, M.N., red.; CHFAS,
M.A., red. isd-va; BARDINA, A.A., tekhn. red.

[Technological processes of high-precision machining] Tekhnologiya slozhnykh lekal'nykh robot. Moskva, Mashgiz, 1963.
166 p. (MIRA 16:5)

(Machine-shop practice)

ZAGREVIN, D. V. and SHUMIKHINA

"Tables of Basic Precession Magnitudes for 1950-2000", Byull. Inst.
Teor. Astronomii AN SSSR, 5, No 10, pp 682-693, 1954.

The tables are compiled the same way as in the book Planetary Coord-
inates for 1940-1960, (1939).
SO: Sum. No. 443, 5 Apr 55

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Agriculture & Plant & Animal Industry.

Rearing young animals. Saratovskoe obl. gos. izd-vo, 1950

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Growing rate of wool in fine-wool hybrid sheep. Agrobiologiya no.6:101-105 N-D '56. (DRA 10:1)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva Yugo-Vostoka, Saratov.
(Sheep) (Wool)

ZAGRITSSENKO, P. R., Cand Biol Sci -- (diss) "Effect of trace elements on some physiological processes and harvest yield of corn in the foothill zone of Zailiyskiy Ala-Tay." Leningrad, 1960. 22 pp; 1 page of tables; (Academy of Sciences USSR, Botanical Inst im Komarov); 300 copies; price not given; (KL, 28-60, 159)

ZAGRIYEV, R., rabochiy shakhty

One longwall instead of two. Sov. shakht. 13 m.3:10 Mr '64.
(MIRA 17:13)

1. Shakhta No.29 "Kapital'naya", nachal'nik shtaba "Komsomol'skogo
prozhektora", Korkino, Chelyabinskoy oblasti.

L 05116-67 EWT(1)/EEC(k)-2 IJP(c)

ACC NR: AT6019750

SOURCE CODE: UR/3192/85/000/11/0239/0214

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B+1

AUTHOR: Zagriyuk, A. Z.

ORG: none

TITLE: Parallel work of semiconducting diodes vs

SOURCE: Akademiya nauk Latvyskoy SSR. Institut elektroniki i vychislitel'noy tekhniki. Avtomatika i vychislitel'naya tekhnika, no. 11, 1965, 239-244

TOPIC TAGS: semiconductor diode, voltage stabilization, circuit design

ABSTRACT: The problem of the parallel work of silicon semiconducting diodes D226 is examined based on the results of experimental data. One hundred diodes about one month old were used for the investigation. The direct voltage drop across the diode was measured at temperatures of 24, 20, and (one month after the first measurement) 60C. The results at 24C, given in the form of a histogram, indicate that the distribution of the diodes with respect to the direct voltage drop was close to a logarithmically normal distribution. The current through the test diode was 240 ma, the maximum permissible for this type diode being 300 ma. The experimental data confirmed the logarithmically normal distribution of D226 diodes as a function of a linear voltage drop. It was found that it is not expedient to connect in parallel D226 diodes

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ACC NR. AT6019750

having a linear voltage drop less than 0.9 v (on a direct current) since in this case there is a very uneven load on individual diodes. For uniform loading of D226 diodes during their parallel work it is recommended to divide diodes into groups with respect to linear voltage drop with a direct current of 240 a across the diode. Only diodes of one group are connected in parallel. Orig. art. has: 8 figures.

SUB CODE: 09/ SUBM DATE: Nov66/ ORIG REF: 003

Card 2/2

ZACHOBEJNI, Zdzislaw; BIELICKI, Franciszek

Anesthetic use of Fluothane (halothane) in hyperthyroid goiter surgery. Polski przegl. chir. 35 no.6:555-561 '63.

1. Z I Kliniki Chirurgicznej AM we Wroclawiu Kierownik: prof. dr K. Czyzewski.

(HALOTHANE) (THYROIDECTOMY)
(HYPERTHYROIDISM) (ANESTHESIA, INHALATION)

BRZECKI, Andrzej; SZEPIETOWSKI, Tomasz; SZYDŁOWSKI, Zygmunt;
ZAGROBELNY, Zdzisław

Bronchial spasm as a complication of endotracheal anesthesia.
Polski przegl. chir. 35 no.6:625-627 '63.

1. Z I Kliniki Chirurgicznej AM we Wrocławiu Kierownik: prof.
dr K. Czyżewski i z Kliniki Chorob Nerwowych AM we Wrocławiu
Kierownik: prof. dr R. Arend.
(BRONCHIAL SPASM) (ANESTHESIA, INTRATRACHEAL)

CZYZIWSKI, Kazimierz; BIELICKI, Franciszek; SKORA, Klemens; ZACHOBEŁNY,
Zdzisław.

Experimental principles for the treatment of thyroid crisis.
Polski przegl. chir. 35 no.9:935-938 '63.

1. Z I Kliniki Chirurgicznej AM we Wrocławiu. Kierownik:
prof. dr. K.Cyzewski.

*

ZACROBEINY, Edzislaw

Effect of intravenous anesthetics on the thyroid gland. Endokr.
Pol. 15 no.3:351-359 My-Je '64.

I. Klinika Chirurgiczna Akademii Medycznej we Wroclawiu (Kierownik: prof. dr. K.Cyzawski).

ZAGROBELNY, Stanislaw

Effect of inhibition of secretions on the thyroid gland. II.
Polsk. bol. 17 no. 10437-446 Jlt-48 1941

Effect of hypothermia on the thyroid gland. III. Ibid. 1447-454

I. I Klinika Chirurgiczna Akademii Medycznej we Wrocławiu
(Kierownik: prof. dr. K. Geysewski).

SZEPIETOWSKI, Tomasz; DAWISKIBA, Emil; ZAGROBELNY, Zdzislaw.

Clinical significance of oliguria and elevated rest nitrogen
in the blood serum of patients during early postoperative
days. Pol. tyg. lek. 20 no.12:419-421 22 Mr '65

1. Z I Kliniki Chirurgicznej Akademii Medycznej we Wroclawiu
(Kierownik: prof. dr. K. Czyzewski).

ZAGROBELNY, Zdzisław; CHRZANOWSKA, Maria; JAWORSKI, Zdzisław;
SKORA, Klemens

Anesthesia in surgical therapy of arteriosclerosis obliterans
of lower extremities. Pol. przegl. chir. 37 no.9:868-871 S '65.

1. Z I Kliniki Chirurgicznej AM we Wrocławiu (Kierownik: prof.
dr. K. Czyzewski).

DOLINSKI, Jan; SZYDLOSKI, Zygmunt; ZAGROBENNY, Zdzislaw

Result of the bromsulphothalein test following surgery of the
epigastrium in patients with normal and disturbed liver func-
tion: using ether and halothane anaesthesia. Pol. tyg. lek. 10
no. 3:256-268 22 P'65.

I. Z I. Kliniki Chirurgicznej Akademii Medycznej we Wroclawiu
(kierownik: prof. dr. med. Kazimierz Gayzewski).

VOINOV, S.I., kand.veterin.nauk; ZAGROBYAN, L.I., kand.veterin.nauk

Experimental study of the SAT-1 strain of foot-and-mouth disease virus. Veterinaria 41 no.8:17-18 Ag '64. (MIRA 18.4)

1. Gosudarstvennyy nauchno-kontrol'nyy institut veterinarnykh preparatov (for Voinov). 2. Armyskiy nauchno-issledovatel'skiy institut zhivotnovodstva i veterinarii (for Zagrobyan).

ZAGROBYAN S.T.

ROSTOTSKIY, I.B.; ZAGROBYAN, S.T.

"Influence of hospital surroundings on patients during pre-and postoperative stages." S.A.Sergievskii. Reviewed by I.B.Rostotakii, S.T.Zagrovian. Sov. zdrav. 13 no.3:54-57 Ky-Je '54. (MLRA 7:8)
(HOSPITALS)

42089

F/019/62/011/003/006/008
D289/D308

9.3230

AUTHOR:

Zagrodziński, J.

TITLE:

Connection of 2n-terminal networks described by scattering matrices

PERIODICAL:

Archivum elektrotechniki, v. 11, no. 3, 1962, 479-501

TEXT:

The author considers a 2n-terminal network obtained by combining several 2n-terminal networks. A system of homogeneous linear equations given by

$$E_i^1 = \sum_{j=1}^n S_{ij} E_j$$

where $i = 1, 2, \dots, n$, is denoted by $E^1 N = N^N E_1^N$. Since

$$E_k^1 = t_{kl} E_l^1 \text{ and } E_l^1 = t_{lk} E_k^1 \tag{2}$$

and $t_{kl} = t_{lk}$ for $k \in P \subset N$ where P is a subseries of the series N of

Card 1/2

P/019/62/011/005/006/008
D289/D308

Connection of 2n-terminal ...

all indices $1, 2, \dots, n$. If R is the supplement of F for N , then E_i and E_i^1 may be interpreted as an oncoming and reflected wave in the terminal plane and for $i \in N$. Channels (pairs of terminals) may be joined by elements defined by coefficient t_{kl} , and $t_{kl} = t_{lk}$ if the element is reversible. A matrix is sought satisfying

$E_i^1 = \sum_k S_{ik} E_k$ for $i \in R$. After finding a general solution, properties are considered of matrix operations and also determination of scattering matrix and its properties after the connection of terminals. Various theorems are proved. Classification of connected systems is given showing whether the systems are stable and whether the matrix S is determinable or not. An example is given of determination of scattering matrix for a system of two 'T' junctions connected by a phase shifting waveguide. There are 5 figures and 3 tables.

SUBMITTED: May 15, 1961

Card 2/2

S/194/61/000/012/087/097
D271/D301

9.1913

AUTHOR: Zagrodziński, J.

TITLE: Antenna range characteristic

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1961, 34-35, abstract 12I188 (Prace Przemysłu inst. telekomun., 1960, v. 10, no. 30, 59-61)

TEXT: The concept of the resulting range characteristic in surveyed space is introduced for radar antennas surveying in vertical plane; this characteristic is the envelope of a family of characteristics with the antenna inclination angle as parameter. Starting from this characteristic it is possible to determine the range radius d of the radar station taking into account ground reflection, if the range of the station is known relatively to a given target in free space. Equation for d is derived. A method for designing the characteristic x is shown; this permits avoiding the loss of some lobes. An example is given of the design of the characteristic for an antenna with a 10° beam width between half-power points and

Card 1/2

S/194/61/000/012/087/097
D271/D301

Antenna range characteristic

with a side-lobe not exceeding -13.3 dB. 2 references. [Abstrac-
tor's note: Complete translation.]

✓
B

Card 2/2

ZAGRODZINSKI, J.

Connecting E-ports described by scattering matrices.
Archiw elektrotech 11 no.3:479-501 '62.

ZAGRODZKA, A.

POLAND / Chemical Technology. Chemical Products and Their Application. Carbohydrates and Their Processing. H

Abs Jour: Ref Zhur-Khimiya, No 9, 1959, 33008.

Author : Zagrodzki, H., Zagrodzka, A.
Inst : Not given.
Title : Sulfitization of Saturated Juices.

Orig Pub: Gaz. cukrown., 1958, 60, No 7, 213-214.

Abstract: Under industrial conditions, the effect of processing juices by a second saturation of SO₂ on the quality of white sugar is studied. The technology of the processing is described, and analytical indicators of separate stages are submitted. The processing by SO₂ considerably decreases the coloring of the white sugar. --
Ya. Shteynberg.

Card 1/1

253

POLAND / Chemical Technology. Chemical Products and Their Application. Carbohydrates and Their Processing. H

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963420009-7"

Abs Jour: Ref Zhur-Khimiya, No 9, 1959, 33008.

Author : Zagrodzki, H., Zagrodzka, A.
Inst : Not given.
Title : Sulfitization of Saturated Juices.

Orig Pub: Gaz. cukrown., 1958, 60, No 7, 213-214.

Abstract: Under industrial conditions, the effect of processing juices by a second saturation of SO₂ on the quality of white sugar is studied. The technology of the processing is described, and analytical indicators of separate stages are submitted. The processing by SO₂ considerably decreases the coloring of the white sugar. --
Ya. Shteynberg.

Card 1/1

253

ZAGRODSKI, S. [Zagrodski, S.]

Purification of juice in sugar factories whose equipment is
supplied to the U.S.S.R. Sakh.prom. 34 no.11:18-2) N '60). (MIRA 13:11)

1. Lodzinskiy politekhnicheskii institut.
(Sugar manufacture)

E/507/60/010/030/002/005
D271/D308

9.1900
AUTHOR:

Zagrodziński, J.

TITLE:

Antenna range diagram

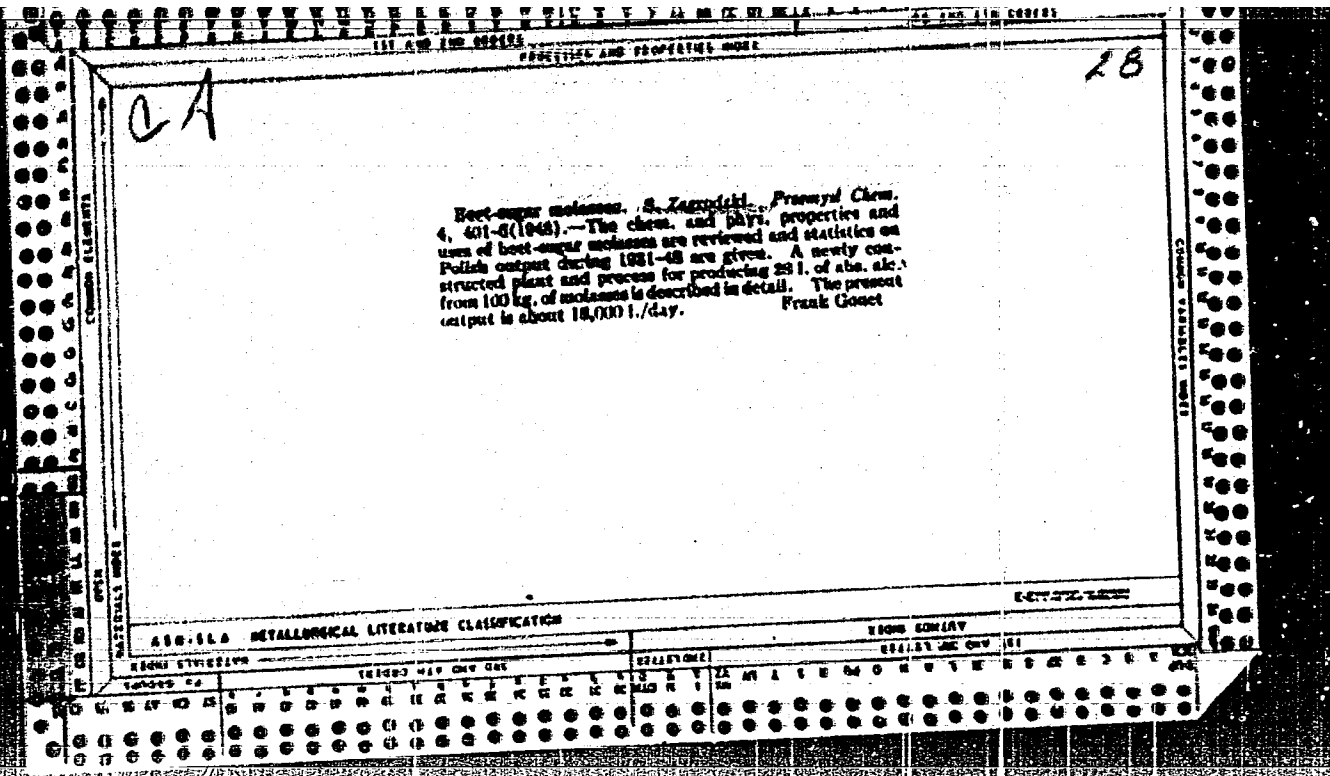
SOURCE:

Warsaw. Przemysłowy Instytut Telekomunikacji. Prace, v. 10, no. 30, 1960, 59 - 61

TEXT: A concept of the space range diagram of a surveillance radar is introduced which makes it possible to determine radar range, taking earth reflection into account. The diagram is defined as the envelope of range diagrams for diverse antenna inclination angles. An approximate range equation is derived assuming narrow-beam free space antenna pattern and small side-lobes; earth surface is assumed smooth and homogeneous, and equivalent earth radius is taken as 8450 km; the final formula expresses the range with earth reflections in function of the free space range. The method for plotting the diagram is explained and the diagram is shown for an antenna with 10° beam width between half-power points, with side-lobes not greater than 13.3 dB, at 15 cm wavelength. The approximations are not valid near to earth surface, and exact formulas have to be used

V
B

Card 1/2



100 AND 1000 SERIES 100 AND 1000 SERIES

PROCESSING AND PROPERTY INDEX

28

U

Necessity of deriving profit from the potassium com-
pounds from molasses residues. *S. Zerkovskii, Ges.
Chimiches 88, 110-23(1948); Suppl. Ind. Abstracts
10, No. 7, 65(1948). R. D. II.*

600-31A METALLURGICAL LITERATURE CLASSIFICATION

| GROUP | SECTION | SUBSECTION | CLASSIFICATION | REMARKS |
|-------|---------|------------|----------------|---------|
| | | | | |

CA

Molasses as a raw material for chemical industry. S.
Zagaynikh. *Prumysl Chem.* 29, 404-70 (1950); cf. C.A.
43, 6004; 43, 4836a - Known processes for the utiliza-
tion of the residual molts from fermentation of molasses are
reviewed. B. A.

CA

15-A

Use of molasses non sugars and by-products of molasses industry. S. Zagrodski. *Gas. Chyromics* 90, 279-30 (1950); cf. *CA* 45, 8255d. — By treating the residues from molasses fermentation with concd. H_2SO_4 and exg. with ether, 20% of non-N compis. (used for pigments, esters, etc.) are obtained; by distn. with superheated steam at 150-170°/20-40 mm. pressure, glycerol is produced; by refluxing with HCl, cooling, filtering, decolorizing with carbon-afin, and neutralizing, betaine is obtained. Glutamic acid, leucine, isoleucine, C_6H_5N , and NMe_2 can also be produced. Org. and inorg. constituents can be sepd. by means of solvents (after concn., acidification, and dehydration by azeotropic distn.), by ion exchangers, or by electrolysis. The tars left after glycerol distn. yield K_2SO_4 and K_2CO_3 . B. A.

15A

CA

Separation of organic and inorganic monosugars in residues
fermented (beet) molasses. Stanislaw Zagorski
(Politech., Warsaw, Poland). *Roczniki Chem.* 19:242-247
1951 (English summary).—The dehydrated residue is sepd.
into inorg. material and monosugar org. material by adding
ing with H_2SO_4 and extr. with an azeotropic aq. pyridine
mixt. or by concn. to 70-80° Balling and treating with
anhyd. pyridine. The cations of the residue can be sepd.
by ion exchange. I. Z. R.

| | | | |
|------------|-----|---|-------|
| COUNTRY | : | Poland | H-25 |
| CATEGORY | : | | |
| ABS. JOUR. | : | RZKhim., No. 5 1960, No. | 19696 |
| AUTHOR | : | Zagrodzki, S. and Walerianczyk, E. | |
| INST. | : | Not given | |
| TITLE | : | The Mechanical Purification of Diffusion and Mill Juice Water for Recycling to the Diffusion Battery | |
| CRIC. PUB. | : | Roczn Technol i Chem-Zywn, 3, 51-76 (1958) | |
| ABSTRACT | : | The results from investigations carried out for the determination of the advantages and disadvantages of the operation of diffusion batteries on recycle water are discussed. Optimum opening diameters for the pulp catching screens and sipping rates of sand and other impurities have been determined from laboratory studies. The results from the investigations are presented in diagram and table form. Subsequent plant tests have indicated the necessity of using settling tanks for the purifica- | |
| CARD: | 1/2 | 348 | |

| | | |
|------------|--|---------------|
| COUNTRY: | : Poland | H-26 |
| CATEGORY | : | |
| ABS. JOUR. | : RZKhim., No. 5 1960, No. | 19696 |
| AUTHOR | : | |
| INST. | : | |
| TITLE | : | |
| ORIG. PUB. | : | |
| ABSTRACT | : tion of recycle water. Optimum residence times in the settling tanks have been determined. The bibliography lists 33 titles. | |
| | | D. Bronshteyn |

CARD: 2/2

| | | |
|------------|--|---------------|
| COUNTRY: | : Poland | H-26 |
| CATEGORY | : | |
| ABS. JOUR. | : <i>RZKhim.</i> , No. 5 1960, No. | 19714. |
| AUTHOR | : Zagrodzki, S. and Niedzielski, Z. | |
| INST. | : Not given | |
| TITLE | : The Determination of Moisture Content in Finished Products and Intermediates by a Modified K. Fischer Procedure. | |
| ORIG. PUB. | : <i>Gaz Cukrown.</i> , 61, No 5, 150-154 (1959) | |
| ABSTRACT | : A method is described for the determination of moisture content in white sugar, raw sugar, molasses, coke, charcoal, limestone, dry and pressed pressings, and in sugar beet seeds. The procedure calls for the preliminary distillation of moisture with methanol, followed by titration. The results from the analysis by the new method are compared with the results from moisture determinations by drying and the differences observed are within practically tolerable limits. The new method requires less time. | |
| CARD: | 1/1 | D. Bronshteyn |

Zakarija S. and others: W. Laborsky Studies over Continuous
Fermentation of Malasses with the Use of an Anion Exchanger.

Trudy Vsesoyuznogo Nauchno-Issledovatskogo Instituta
Khimicheskoi Mikrobiologii, Moscow, No. 7-6-3 1954, pp. 112-121.
1 fig.

The authors found that: 1) malasses demineralized with a cation
exchanger are, due to the total loss of cations in the solution and
decrease of the pH value, not suitable for citric fermentation; 2) fungi do
not develop on malasses demineralized by means of cation and anion
exchangers even at a pH of 6; 3) the fermentation capacity increases in
malasses demineralized to a small degree by means of ion exchangers
over a wide range of pH values; 4) the highest concentration of citric
acid is obtained in the lower layers of the fermenter, and is just below
the surface; 5) the pH value remains steadily in the lower layers,
in due to the pH value in the upper part of the settled layers, equi-
librium of citric acid concentration in periodical surface fermentation
is reached very slowly; complete equilibrium of concentration is achieved
in 24 days; 6) in continuous fermentation, acidity reaches the
highest concentration reached in periodical fermentation; 7) application
of ion exchangers for binding citric acid during fermentation, accelerates
fermentation and decreases the amount of oxalic acid formed; 8) in
the continuous fermentation process, preliminary acidification of solu-
tions is not necessary; 9) in continuous fermentation the fungus showed
a high degree of resistance to the action of antibiotics; 10) seeding of the fungus causes
a rapid increase in the fermentation capacity.

COUNTRY : Poland H-26
CATEGORY :
ABS. JOUR. : RZKhim., No. 1959, No. 7282
AUTHOR : Zagrodzki, S.; Miedzielski, Z.
INST. :
TITLE : Experience with Purification of Starch Syrups
by the Use of Ion-Exchangers
ORIG. PUB. : Przem. spozywczy, 1958, 12, No 10-12,
405-407
ABSTRACT : Description of characteristics of Polish
anion-exchangers WK-101 and 102, and cation-exchanger SFK-15,
and of the results of their use in purification of starch
hydrolysates. The investigations were conducted according
to three variants: 1) with 3 columns of 50 g capacity each,
filled in successive order with anion-, cation-, and anion-
exchanger; 2) with three pairs of such columns filled in
succession with anion- and cation-exchanger; 3) with two
pairs of columns with anion- and cation-exchanger, and with
additional purification of the syrups over activated char-
coal. The syrup under study, after hydrolysis, had a pH of
2.3 and contained 0.25% ash. With the 1st variant the ash
CARD: 1/2

83

COUNTRY : Poland H-26
CATEGORY :

ABS. JOUR. : RZKhim., No. 1959, No. 72862

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : content remained almost unchanged, 0.22%;
with the 2nd, it was decreased to 0.06%; the 3rd variant
yielded best results and ash-content of the syrup was de-
creased to 0.007%. -- N. Bakanov.

CARD: 2/2

ZACRODZKI, Stanislaw

Application of ion exchangers to the demineralizing of molasses residues. Stanislaw Zagrodzki (Lodz Inst. Technol.). *Ročník Chem.* 27, 142-50 (1953).--Various methods of demineralizing molasses by means of cation exchangers were tried. The results are reproduced in graphs. To obtain potash, solns. of CO_2 under 50 atm. were used for regeneration of the cation exchanger, also CaCO_3 and $(\text{NH}_4)_2\text{CO}_3$.
A.I.P.

Hayk ODZK / S. W. S. A. C.

8

chem

2

✓ Removal of acetaldehyde and ethanol from aqueous solutions. Glycerol production by fermentation. Stanislaw Zagrodzki and Stanislaw Wysocki, Tech. Inst. Chem. Acad. Sci., Zeszyty Nauk Politech. Lódz, No. 5, Chem. Spisywca No. 1, 25-30(1955)(English summary). --EtOH and AcH can be easily removed from dil. soln. through aeration. AcH could also be rapidly and efficiently removed from dil. aq. soln. of glycerol by distn. in vacuo at atm. pressure. Decompn. of AcH decreases with the increase of the excess of sulfite. Removal of aldehyde from aldehyde sulfite is less complete at lower temp. under reduced pressure than at higher temp. under atm. pressure. This study indicates that a novel method for production of glycerol by fermentation can be developed. E. Ehrlich

ZAGRODZKI, S.

Journal of the Science
of Food and Agriculture
March 1954
Foods

(2)

Laboratory tests of continuous citric acid fermentation of molasses with application of anion exchangers. S. Zagrodzki and W. Kryztofik (*Gar. Cukr.*, 1953, 85, 118-121; *Sov. Ind. Abstr.*, 1953, 15, 161).—*Aspergillus niger* grows on partly deionized (to 4% of salts), but not on wholly deionized, molasses. After treatment with anion exchangers alone, the molasses gives good fermentation results. Acid remains largely concentrated in the surface layer, and diffuses slowly downwards. In laboratory tests of a continuous process, molasses, after treatment by an anion exchanger, and acidification with HCl to pH 5-6, was circulated upwards through four tubes which were half-filled with intermediate anion-exchanger vessels. Air was passed countercurrently through the system. The growth of *A. niger* was established in the tubes six days after inoculation. A flow-rate of four days for the passage of the molasses through each tube gave the best results. Citric acid was recovered (in 52.8% yield, on wt. of sugar) from the anion exchanger by regeneration with HCl. The system operated for two months without decrease in yields.
P. S. ARUP

2
Removal of sugar from the first saturation mud by pure water and by the water from the sugar extraction process. Stanislaw Zagrzebski and Helena Zatorska. *Gaz. Cukrownicza* 57, 177-9 (1956). —The diffusion water from the sugar extrn. process brought to pH 10.8-11.0 by the addn. of 0.05% CaO, can be successfully used for the sugar removal from the 1st satn. mud. The sugar extrn. obtained were cleaner than in the case of the water extrn., although there were no differences in the color of the extrn. E. W.

STANISLAW, DĄBROŃSKI, SĄKOWSKI, STANISLAW

... which recirculates the outgoing diffusion water as
applied to Robert's batteries without increasing the
P. J. Herold

ZAGRODSKI, S.

POLAND / Chemical Technology. Chemical Products and Their Ap- I-30
plication. Food Industry.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, No 10366

Author : Zagrodski, S. and Zaorska, H.

Inst : Not given

Title : Laboratory Experiments on the Coagulation of Milk Serum

Orig Pub : Przem. spozywczy, 1956, Vol 10, No 3, 121-125

Abstract : The effect of the solids content of milk serum on the vis-
cosity, boiling point increase, and coefficient of thermal
conductivity has been investigated. The experiments have
confirmed the dependence of the increase in the boiling
point on the thickness of the deposit on the heating sur-
faces. It has been established that after the coagulation
of 1,600 litres of serum per m² of heating surface, a four-
fold reduction in the heat conductivity is observed. Strong

Card : 1/2

POLAND / Chemical Technology. Chemical Products and Their Ap- I-30
plication. Food Industry.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, No 10366

Abstract : foaming of the serum leads to large milk sugar losses.
Small changes in the vacuum likewise increase the sugar losses.
The slow coagulation of milk serum at elevated temperatures yields a dark milk sugar of low quality and in small yields. The rapid coagulation of the serum at 70° yields a white milk sugar in high yield.

Card : 2/2

ZAGRODSKIY, S.; ZAORSKAYA, Ye.

Complexometric analysis for determining calcium salts in sugar
juices. Sakh.prom. 30 no.9161-62 S '56. (MIRA 10:3)

1. Kafedra sakharovareniya i pishchevykh proizvodstv Lodzinskogo
politekhnikuma (Pol'sha)
(Calcium salts) (Sugar--Analysis and testing)

ZAGRODZKI, STANISLAW

POLAND/Chemical Technology - Chemical Products and Their
Application. Food Industry.

H-28

Abs Jour : Raf Zhur - Khimiya, No 8, 1958, 26800

Author : Zagrodzki Stanislaw, Miedzielski Zygmunt

Inst :

Title : Determination of Water Content in Food Products by the
Acetylene Method.

Orig Pub : Przem. spozywczy, 1957, 11, No 6, 244-247

Abstract : Description of Yakovenko's method of moisture determina-
tion which is based on the reaction $\text{CaC}_2 + 2\text{H}_2\text{O} =$
 $\text{Ca}(\text{OH})_2 + \text{C}_2\text{H}_2$. This method speeds up the determination
by 6 times in comparison with other methods and is more
accurate. Disadvantages: slow course of final phase of
reaction; influence of organic acids contained in the
sample, since these acids react with $\text{Ca}(\text{OH})_2$ to form
water; flammability of acetylene.

Card 1/1

POLAND/Chemical Technology - Chemical Products and Their
Application - Carbohydrates and Refinement,

H.

Abs Jour : Ref Zhur - Khiriya, No 9, 1958, 30412

Author : ~~Zagrodzki, S.~~ and Ciszenko-Piontkowa, Z.

Inst : -

Title : The Application of 2,4-dinitrophenylhydrazine in
Analytical Work in the Sugar Industry.

Orig Pub : Przenysl Spozywczy, 11, No 6, 258-259, 1957.

Abstract : The corresponding hydrazones are prepared by reacting
glucoses (3 moles) and 2,4-dinitrophenylhydrazine
hydrochloride (2 moles) in aqueous alcohol medium.
The products obtained were found useless for analytical
purpose except for identification.

Card 1/1

3

ZAGRODZKI, S.

Achievements and scientific studies in the field of chemistry and technology of sugar production in People's Poland.

P. 283 (PRZEMISL SPOZYWCZY) (Warsaw, Poland) Vol. 11, no. 7, July 1957

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

ZAGRODSKY

E

POLAND / Analytical Chemistry. Organic Analysis.

Abs Jour: Ref Zhur-Khimiya, No 16, 1958, 53512.

Author : Zagrodsky.

Inst : Politechn.

Title : The Separation of Citric and Oxalic Acids by Means of Ion Exchange Resins.

Orig Pub: Zesz. nauk. Politech. lodzkiej, 1957, No 16, 89-95.

Abstract: In the manufacture of citric acid (I) by fermentation using *Aspergillus niger* small amounts of oxalic acid (II) are formed. To separate I from II a column packed with a weakly basic anionite (capacity 5.6 mg-eq. with respect to hydrochloric acid) with a diameter of 16 mm and length of 500 mm is used. When a solution containing in 1 liter 100 mg-eq. of II and 1000 mg-eq. of I is chromatographed at 20°C, I and II are adsorbed on the

Card 1/2

48

POLAND / Analytical Chemistry. Organic Analysis.

E

Abs Jour: Ref Zhur-Khimiya, No 16, 1958, 53512.

Abstract: anionite in a molar ratio of $\sim 1:1$. This accomplishes the complete removal of II from I. In the eluate II appears only after the anionite has been saturated to $\sim 40\%$ of the capacity. The regeneration is done by the method of reverse flow; first $\sim 60\%$ of pure II is eluted than a mixture of 40% of I and II and, finally, $\sim 60\%$ of pure I. II was determined by means of CaCl_2 precipitation at the boiling temperature of the test solutions followed by a permanganate titration.

Card 2/2

ZAGRODZKI, S. ; NIEDZIELSKI, Z.

Investigations on the prototype of the Szarejko filter with hydraulic mud removal.

P. 35. (GAZETA CUKROWNICZA.) (Warszawa, Poland) Vol. 60, no. 2, Feb. 1958

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

ZAGRODZKI, S. (Poland)

Optimal duration of sugar-factory campaigns. Cukor 13 no.9:265-267
S '60.

ZACHODZKI, Stanislaw; LENCZEWSKI, Jan

Experiments in the electrolysis of molasses residua. *Chemia
stosow* 7 no.1:125-133 '63.

1. Katedra Gukrownictwa i Technologii Srodkow Spozywczych,
Politechnika, Lodz.

ZAGRODZKI, S.

Nutritious substances, nutrition, diseases of civilization; report
on the international convention in Aachen, Liege and Maastricht,
September 13-17, 1961. Przem spoz 16 no.4:52-54 Ap '62

ZAGRODZKI, Stanislaw; ZAORSKA, Helena

Separation of non-sugars from molasses by means of ion exchangers.
Rocz tech chem zywn 8:5-18 '61.

1. Katedra Cukrownictwa i Technologii Srodkow Spozywoczych,
Politechnika, Lodz. Kierownik: prof.dr.Stanislaw Zagrodzki.

ZAGRODZKI, Stanislaw; ZAORSKA, Helena

Production of potash and fodder concentrates from molasses slops
by means of ion exchangers. Roczn. tech. chem. żywn. 8:141-160 '61.

1. Katedra Cukrownictwa i Technologii Środków Spożywczych,
Politechnika, Łódź. Kierownik Katedry: prof. dr. Stanisław
Zagrodzki.

ZAGRODZKI, Stanislaw; WALERIANCZYK, Edmund; ZALICKI, Jerzy

Delimiting of sugar solutions by cation-exchanger in the
sodium and ammonium cycle. Rocz tech chem sywn 8:5-18 '61.

1. Katedra Cukrownictwa i Technologii Srodkow Spozywczych,
Politechnika, Lodz. Kierownik Katedry: prof dr. S.Zagrodzki.

ZAGRODZKI, Stanislaw; WLAERIANCZYK, Edmund

Application of ion exchangers in mixed bed-deioniation for the purification of sugar refining products. Rocznik techniczny 8: 143-155 '61.

1. Katedra Chemicznej i Technologii Srodkow Spozywczych,
Politechnika, Lodz. Kierownik: prof.dr. Stanislaw Zagrodzki.

ZAGRODZKI, Stanislaw (Lodz); KUBIAK, Jan (Lodz); ZALICKI, Jerzy (Lodz)

Production of lactic acid from potato syrup. Przem spoz 15 no.9:
26-33 '61.

ZAGRODZKI, Stanislaw, (Lodz)

The use of ionites in the food industry. Przem spoz 15 no.11:1-12 '61.

1. Katedra Cukrownictwa i Technologii Srodkow Spozywanych Politechniki
Lodzkiej.