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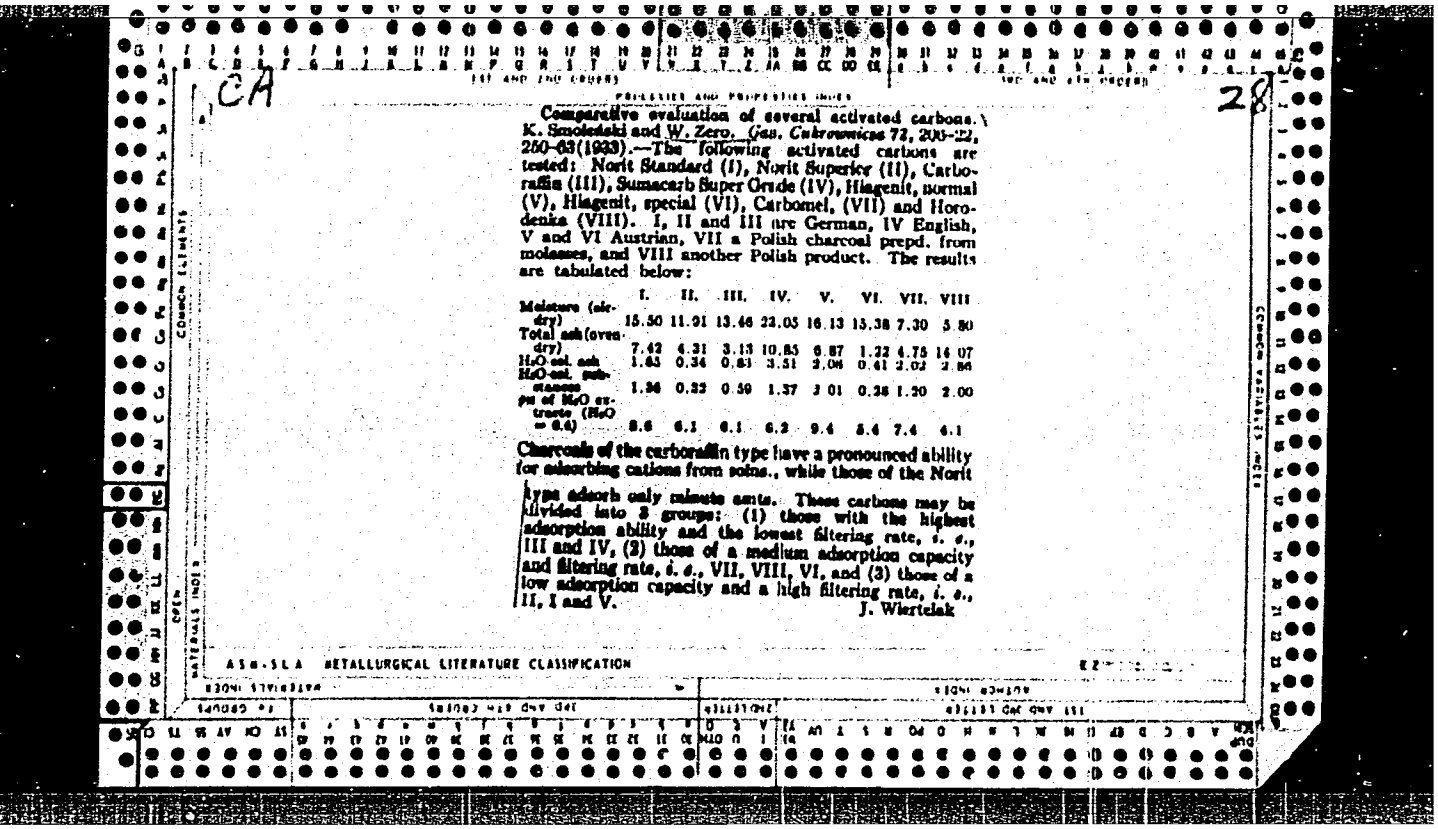

CA

28

Comparative evaluation of several activated carbons. K. Smoleński and W. Zero. *Gaz. Cukrownicza* 72, 205–22, 250–63(1933).—The following activated carbons are tested: Norit Standard (I), Norit Superior (II), Carboraffin (III), Sumacarb Super Crude (IV), Hiagenit, normal (V), Hiagenit, special (VI), Carbomel, (VII) and Horodenka (VIII). I, II and III are German, IV English, V and VI Austrian, VII a Polish charcoal prepd. from molasses, and VIII another Polish product. The results are tabulated below:

	I.	II.	III.	IV.	V.	VI.	VII.	VIII
Moisture (air-dry)	15.50	11.91	13.46	22.05	16.13	15.38	7.30	5.80
Total ash (oven-dry)	7.42	4.31	3.13	10.85	6.87	1.22	4.75	14.07
H_2O-sol. ash	1.63	0.34	0.61	3.51	2.06	0.41	2.02	2.86
H_2O-sol. substances	1.36	0.32	0.59	1.37	3.01	0.28	1.20	2.00
pH of H_2O extracts (H_2O = 6.4)	8.6	6.1	6.1	6.2	9.4	8.4	7.4	6.1

Charcoals of the carboraffin type have a pronounced ability for adsorbing cations from solns., while those of the Norit type adsorb only minute amts. These carbons may be divided into 3 groups: (1) those with the highest adsorption ability and the lowest filtering rate, *i. e.*, III and IV, (2) those of a medium adsorption capacity and filtering rate, *i. e.*, VII, VIII, VI, and (3) those of a low adsorption capacity and a high filtering rate, *i. e.*, II, I and V.

J. Wiertelak

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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BC

a-1

Solubility of calcium oxide in water and in aqueous sucrose. K. Smoleński and W. Żero (Rocz. Chem., 1936, 16, 24—36, and Bull. Acad. Polonaise, 1935, A, 586—601).—The solubility of CaO in H_2O and 1·5—36% sucrose (I), at 0—60°, rises with (I) concn. and falls with rising temp. The final p_H is the same in presence or absence of (I). R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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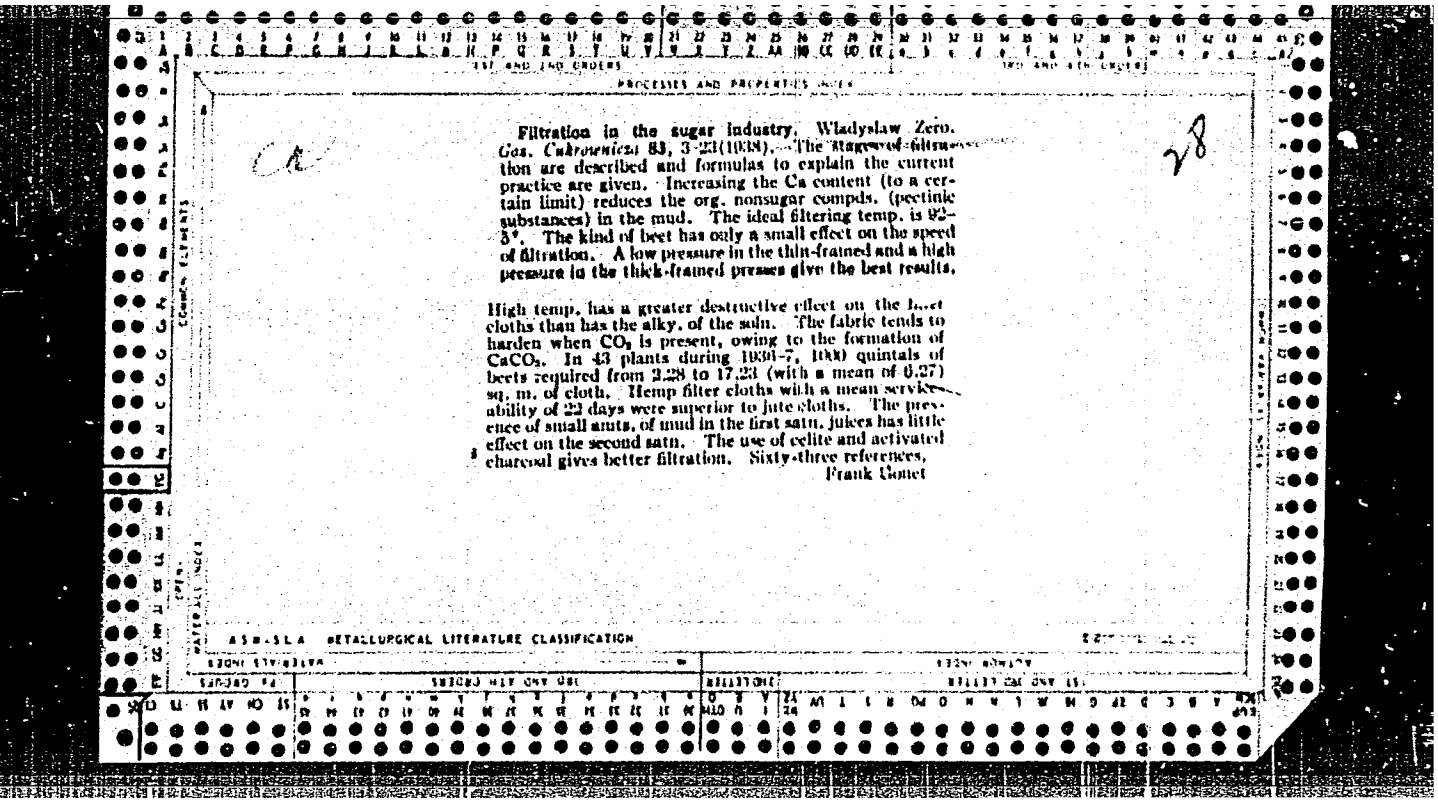

Filtration in the sugar industry. Wladyslaw Zero. *Gaz. Cukrownicza* 83, 3–23(1938).—The stages of filtration are described and formulas to explain the current practice are given. Increasing the Ca content (to a certain limit) reduces the org. nonsugar compds. (pectinic substances) in the mud. The ideal filtering temp. is 92–5°. The kind of beet has only a small effect on the speed of filtration. A low pressure in the thin-framed and a high pressure in the thick-framed presses give the best results.

High temp. has a greater destructive effect on the linen cloths than has the alky. of the satn. The fabric tends to harden when CO_2 is present, owing to the formation of $CaCO_3$. In 43 plants during 1936–7, 1000 quintals of beets required from 2.28 to 17.23 (with a mean of 6.27) sq. m. of cloth. Hemp filter cloths with a mean serviceability of 22 days were superior to jute cloths. The presence of small amts. of mud in the first satn. juices has little effect on the second satn. The use of celite and activated charcoal gives better filtration. Sixty-three references.

Frank Gonet

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROMAKI S.

Syzyfowe prace (Sisyphus works), by S. Zeromaki. Reported in New Books (Nowe Ksiazki), No. 4, February 15, 1956.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

POLAND

SEGAL, Pawel, KIKIELA, Marian, MRZYGLOD, Stanislaw, and ZERONSKA-ZBIERSKA, Izabela; Clinic of Eye Diseases (Klinika Chorob Oczu) WAM [Wojskowa Akademia Medyczna, Military Medical Academy] in Lodz (Director: Prof. Dr. med. P. SEGAL) and Eye Division (Oddzial Oczny), Military Hospital (Szpital Wojskowy) in Zielona Gora (Ordynator: Dr. M. KIKIELA)

"On the Coexistence of the Familiar Form of Pigmentary Degeneration of the Retina with Kartagener Triade. Case Report."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 23, 3 Jun 63, pp 809-812.

Abstract: [Authors' English summary modified] Authors report a case of Kartagener triade, pigmentary degeneration of the retina, and congenital cataract. They review briefly the literature of this problem, and note that the changes observed in this syndrome are always due to developmental difficulty or degenerative changes, and may therefore have common pathological elements with the classical symptoms of the Kartagener triade. There are 21 references, about evenly divided between Polish, German, and Western publications.

1/1

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

GAWRONSKI, Mieczyslaw; ZEROMSKI, Jan

Marginal metastatic pulmonary calcification in cases of leukemia and multiple myeloma. Pat. Pol. 15 no.3:361-368 Jl-S '64.

1. Z Zakladu Anatomii Patologicznej Akademii Medycznej w Poznaniu (Kierownik: prof. dr. med. Janusz Groniowski).

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

WIERZCHOWIECKI, Michal; ZEROMSKI, Jan

Antiglobulin consumption and immunofluorescence tests in the diagnosis of systemic lupus erythematosus. Pol. arch. med. wewnet. 35 no.7:1019-1024 '65.

1. Z I Kliniki Chorob Wewnetrznych AM w Poznaniu (Kierownik: doc. dr. med. K. Jasinski) i z Zakladu Anatomii Patologicznej AM w Poznaniu (Kierownik: doc. dr. med. P. Gabryel).

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZERONSKI, S.

An author, a compatriot: an article published in the magazine Naokolo Swiata in 1925.

(MORZE) Vol. 11. No. 12, December 1957

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

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROMSKI, S.

"Central Register of Chemical Literature in the Documentation Center of the Institute of Inorganic Chemistry in Gliwice." P. 43. "Technical-Scientific Conference of the Polish Academy of Sciences Concerning the Chemical Treatment of Coal." P. 44, (PRZEMYSL CHEMICZNY, Vol. 10, No. 1, Jan. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

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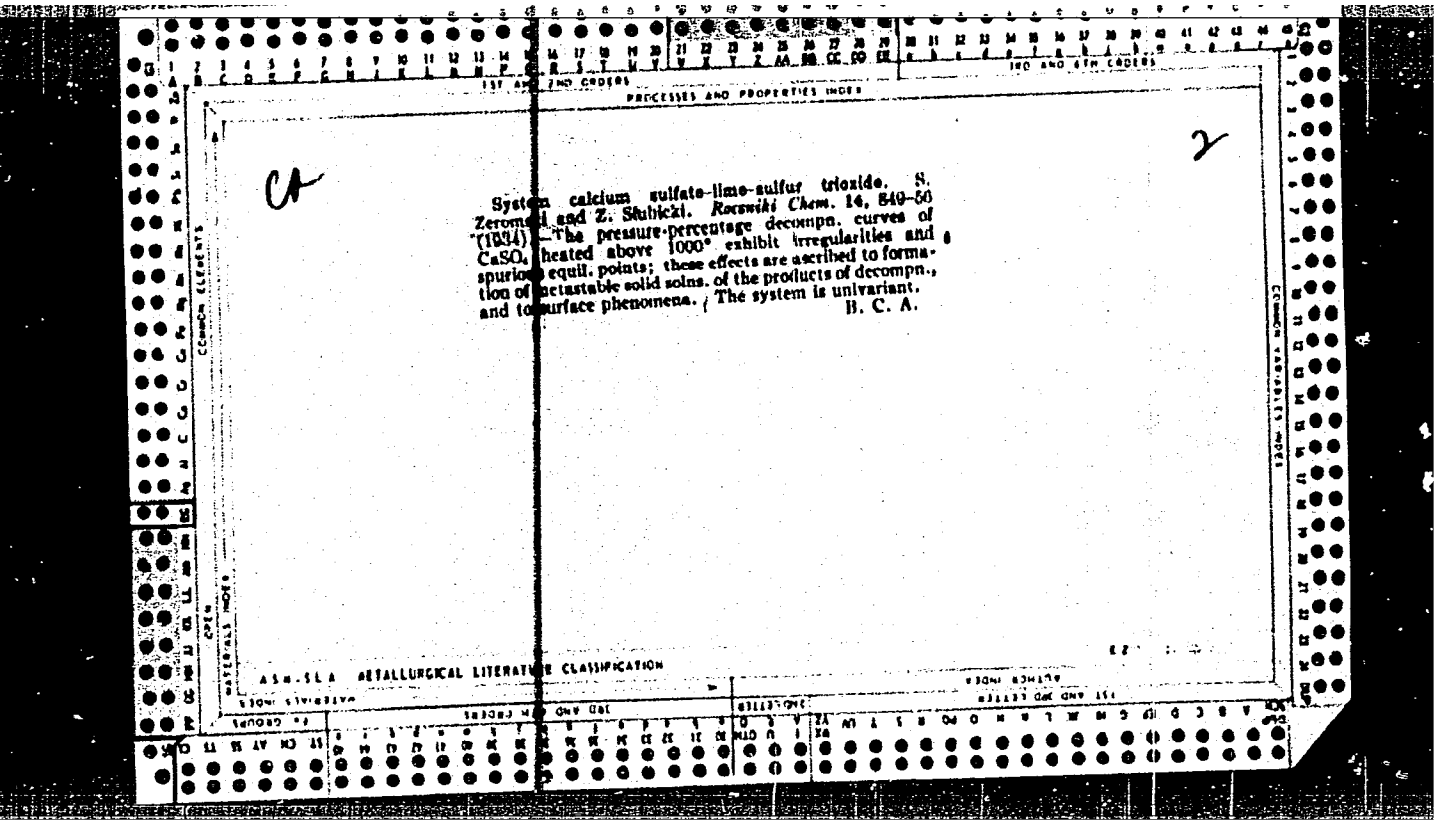

PROCESSES AND PROPERTIES INDEX

Ca

2

System calcium sulfate–lime–sulfur trioxide. S. Zeromski and Z. Stubicki. *Roczniki Chem.* 14, 849–60 (1934).—The pressure-percentage decompn. curves of $CaSO_4$ heated above 1000° exhibit irregularities and spurious equil. points; these effects are ascribed to formation of metastable solid solns. of the products of decompn., and to surface phenomena. The system is univariant. B. C. A.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

pa

2

Application of x-rays to study of the systems $A_{solid} = B_{solid} + C_{gas}$. S. Zeromski and W. Szamborska. *Roczniki Chem.* 18, 924-8 (in French, 929) (1938).—X-ray analysis was used for examg. thermal decompn. of $ZnCO_3$ and $CdCO_3$. By this method one can judge what quantity of gas is still combined in the substance and what adsorbed by the solid phase. The results are discussed.

M. Wojciechowski

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

BC

A 1

System $CaSO_4$–CaO–SO_2. S. Zawadzki and Z. Sawicki (Rocz. Chem., 1934, 14, 846—856).—The pressure–% decomp. curves of $CaSO_4$ heated at > 1000° exhibit irregularities and spurious equilibrium points; these effects are ascribed to formation of metastable solid solutions of the products of decomp., and to surface phenomena. The system is univariant.

R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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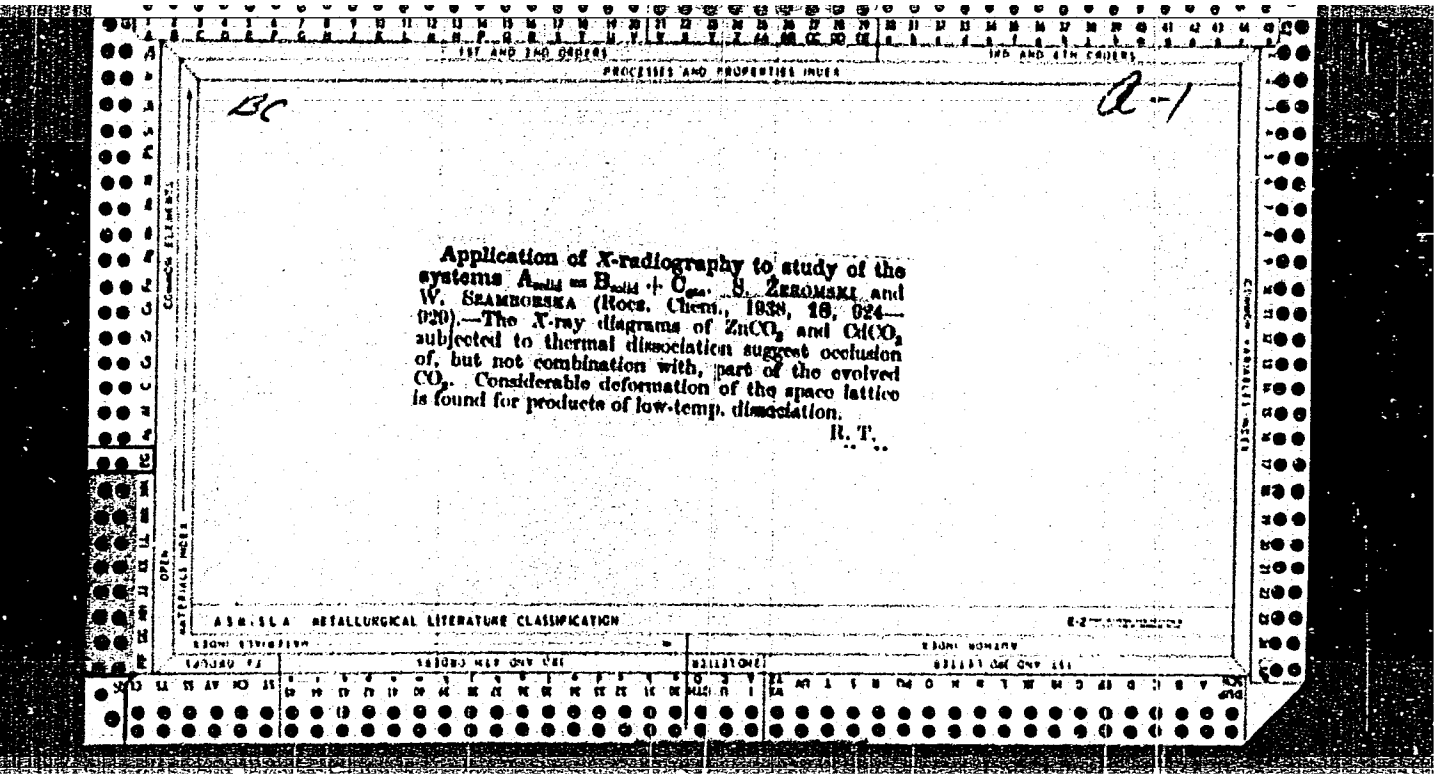

BC

Application of X-radiography to study of the systems $A_{solid} \rightleftharpoons B_{solid} + C_{gas}$. S. ZERONSKI and W. SRAMBORSKA (Roczn. Chem., 1938, 16, 924—920).—The X-ray diagrams of $ZnCO_3$ and $CdCO_3$ subjected to thermal dissociation suggest occlusion of, but not combination with, part of the evolved CO_2. Considerable deformation of the space lattice is found for products of low-temp. dissociation.

R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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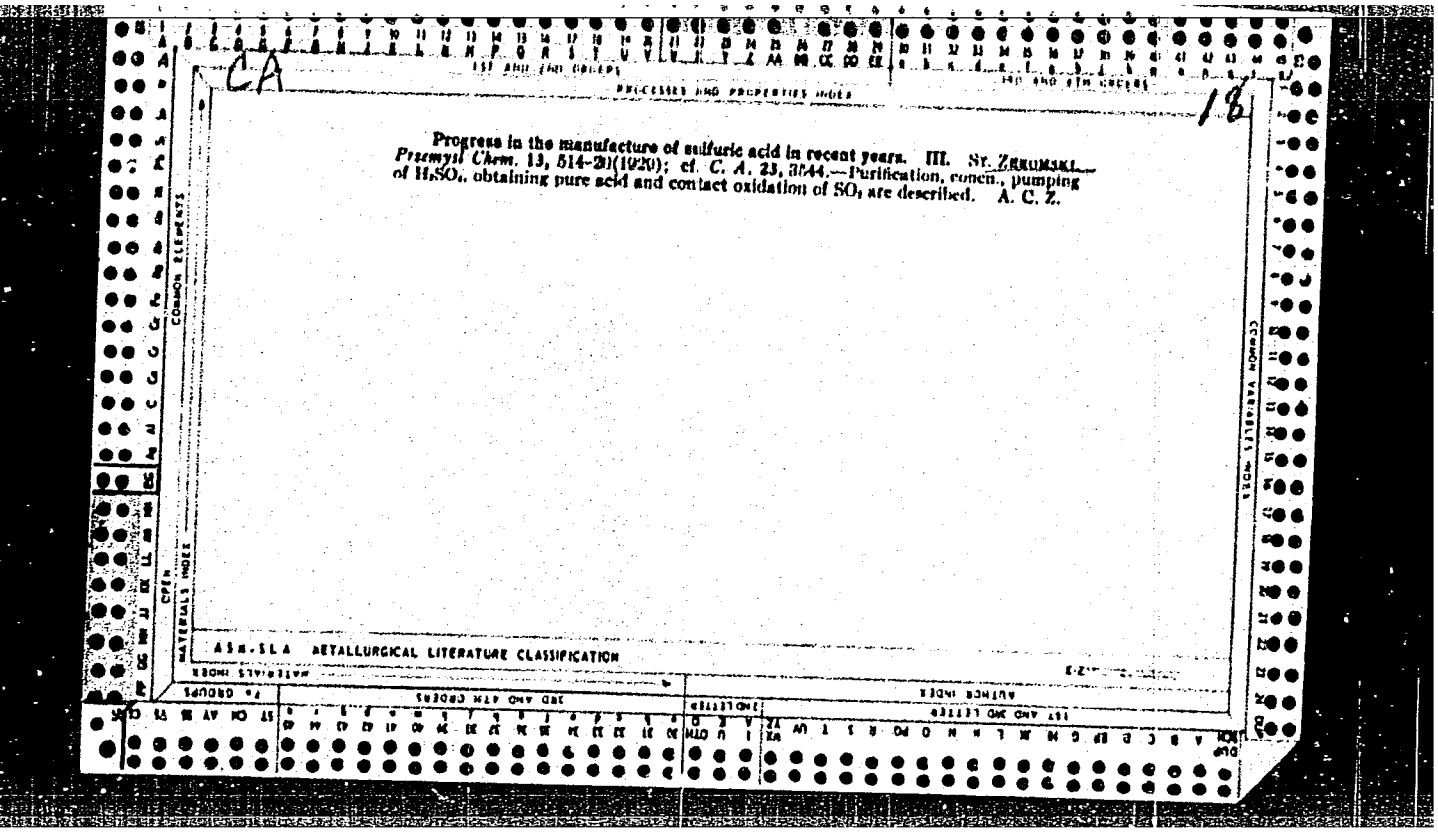
"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9



CA

18

Progress in the manufacture of sulfuric acid in recent years. III. ST. ZERUMSKI. *Przemysł Chem.* 13, 514-21(1929); cf. *C. A.* 23, 3044.—Purification, concn., pumping of H_2SO_4, obtaining pure acid and contact oxidation of SO_2 are described. A. C. Z.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROMSKI, Z.

USSR / Chemical Technology. Chemical Products and Their Application. Food Industry.

Ref Zhur - Khimiya, No 3, 1957, No 10397

Author : Zeromski, Z.
Inst : Not given
Title : An Evaluation of Polish Cheeses

Orig Pub : Przegl. mleczarski, 1956, Vol 4, No 5, 19-23

Abstract : A commission of specialists has evaluated 147 specimens of various types of cheeses of Polish manufacture submitted by 131 plants; 28% of the samples were classed in class I, 46% in class II, and 21% in class III; 5% of the samples were returned for further processing. It has been established that the dominant defects fell into the following categories: sub-standard taste and odor, molds, structure, consistency, color, appearance, and defective

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

USSR / Chemical Technology. Chemical Products and Their Application. Food Industry. I-30

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, No 10397

Abstract : paraffin coating. The commission found that 91.9% of the samples submitted met the State Standard on salt content and that 47% of the samples showed deviations from the State Standard on fat content; high moisture was observed in 48.95% of the samples.

Card : 2/2

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

Zeromski, Z.

4036

Zeromski Z. Preliminary Investigations over Early Paraffin Covering of Tilsit Cheese. 637.33.004.5

„Wstępne doświadczenia nad [illegible] parafinowaniem sera tylżyckiego". (Prace Inst. Przem. [illegible]

Semi-fat Tilsit cheese was [illegible]

MD

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

POLAND / Chemical Technology. Food Industry. H-28

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 79464.

Author : Zeromski, Z.
Inst : Not given.
Title : The IV-th Evaluation of Cheese Quality in PNR /Polish People's Republic/.

Orig Pub: Przegl. mleczarski, 1957, 5, No 11, 10-12.

Abstract: These are the results on the evaluation of the quality of cheeses produced in PNR. The evaluation was conducted by the In-ut and Central Administration of Dairy Industry.

Card 1/1

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZERÓV, D. K., ED.

Ukraine - Botany

"Flora of the URSR" vol. 3. Reviewed by F.O. Gryn'. Visnyk AN URSR 22, No. 10, 1950.

Monthly List of Russian Accessions, Library of Congress August 1952. UNCLASSIFIED.

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1. ZEROV, D. K.

2. USSR 600

4. Pollen, Fossil

7. "Analysis of fossils of pollen and spores and its application in paleogeography." V. P. Grichuk, YE. D. Zaklinskaya, "Jurassic chalk as a guide to spores and pollen." V. S. Malyavkina." Pollen analysis" I. M. Polrovskaya. Reviewed by D. K. Zerov, Bot. zhur (Ukr) 8, No. 1, 1951.

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

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROV, D.K.

Discovery of the Mediterranean Sea liverwort (Oxymitra paleacea Bisch.) in the vicinity of Kanev. Bot.zhur.[Ukr.] 8 no.3:80-81 '51. (MLRA 6:9)
(Kanev, Ukraine--Hepaticae) (Hepaticae--Kanev, Ukraine)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

KURSANOV, L.I., redaktor; ZERROV, D.K. [reviewer].

"Botany," vol. 2: Classification of plants. L.I.Kursanov, ed. Reviewed by D.K.Zerov. Bot.zhur.[Ukr.] 9 no.3:95-97 '52. (MLRA 6:11)
(Botany--Classification)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROV, D.K.

Three new species of liverworts in the flora of the U.S.S.R. from Maritime Territory. Bot.zhur.[Ukr.] 10 no.1:101-105 '53. (MLRA 6:8)
(Maritime territory--Hepaticae) (Hepaticae--Maritime territory)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROV, D.K.

Genus Jubula Dum. in the flora of the U.S.S.R. Bot.zhur. [Ukr.] 10 no.3: 85-90 '53. (MLRA 6:8)

1. Instytut botaniky Akademiyi nauk Ukrayins'koyi RSR, viddil sporovykh roslyn. (Jubula)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROV,D.K., redaktor; KOTOV,M.I., professor, doktor biologichnikh nauk; KLOKOV,M.V., professor, doktor biologichnikh nauk; VISYULINA,O.D. kandidat biologichnikh nauk; BARBARICH,A.I., kandidat biologichnikh nauk; KRILOVS'KA,N.S., tekhredaktor

Rose family. A.I.Barbarich and others. Flora URSR no.6:5-300 '54. (MIRA 8:11)

1. Diysniy chlen Akademii nauk URSR (for Zerov)
(Ukraine--Roses)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

Zerov, D.K.

ZEROV,D.K., redaktor; KOTOV,M.I., professor, doktor biologichnikh nauk; KLOKOV,M.V., professor, doktor biologichnikh nauk; VISYULINA,O.D. kandidat biologichnikh nauk; BARBARICH,A.I., kandidat biologichnikh nauk; KRILOVS'KA,N.S., tekhredaktor

Legume family. A.I.Barbarich and others. Flora URSR no.6:301-573 '54. (MLRA 8:11)

1. Diysniy chlen Akademii nauk URSR (for Zerov)
(Ukraine--Leguminosae)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROV, D.K.

Afrykan Mykolaiovych Kryshtofovych. Bot.zhur.[Ukr.] 11 no.2:92-97 '54.
(Kryshtofovych, Afrykan Mykolaiovych, 1885-1953) (MLRA 8:7)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROV, D.K.

Porella ulophylla (Steph.) D. Zerov comb.nova in the U.S.S.R. flora. Bot.zhur.[Ukr.] 11 no.4:70-72 '54. (MLRA 8:7)

1. Institut botaniki AN URSR, viddil sporovikh roslin.
(Hepaticae)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

LAZARENKO, Andrey Sozontovich; SHILO,V.N., redaktor; ZEROV,D.K., redaktor; SIVACHENKO,Ye.K., tekhnicheskiy redaktor

[Guide to the mosses (Musci) of the Ukraine] Opredelitel' listvennykh mkhov Ukrainy. Izd. 2-oe, perer. i dop. Kiev, Izd-vo Akademii nauk Ukrainskoi SSR 1955. 465 p. (MLRA 9:2)

1. Deystvitel'nyy chlen AN USSR (for Zerov)
(Ukraine--Mosses)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROV, D.K.

Basic trends in the development of the vegetable kingdom. Bot. zhur.[Ukr.] 12 no.2:3-16 '55. (MLRA 8:10)

1. Institut botaniki Akademii nauk URSR
(Phylogeny (Botany))

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZERCV, D.K.

Distribution of xerothermophilic liverworts in the Ukrainian S.S.R.
Bot. zhur.[Ukr.] 12 no.3:91-96 '55. (MLRA 8:11)
(Ukraine--Hepaticae)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

MODILEVSKIY, Yakov Samuilovich; ZEROV, D.K., akademik, otvetstvennyy redaktor; GRUDZINSKAYA, O.S., redaktor izdatel'stva; ROKHLINA, N.P., tekhnicheskiy redaktor

[The history of Russian embryology of higher plants] Istoriia otechestvennoi embriologii vysshikh rastenii. Kiev, Izd-vo Akademii nauk USSR, 1956. 201 p. (MLRA 9:11)

1. Akademiya nauk USSR (for Zerov)
(Botany--Embryology)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

KHOLODNYY, Nikolay Grigor'yevich; BELOKON', I.P., redaktor; ZEROV, D.K., redaktor; OKANENKO, A.S., redaktor; POGREBNYAK, P.S., redaktor; RUBENCHIK, L.I., redaktor; SHILO, V.N., redaktor izdatel'stva; SIVACHENKO, Ye.K., tekhnicheskiy redaktor

[Selected works; in three volumes] Izbrannye trudy; v trekh tomakh. Kiev, Izd-vo Akademii nauk USSR. Vol.2. [Works on the physiology of plants] Raboty po fiziologii rastenii. 1956. 388 p. (MLRA 9:11)
(Botany--Physiology)

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KHOLODNYY, Nikolay Grigor'yevich; BELOKON', I.P., redaktor; ZEROV, D.K., redaktor; OKAMENKO, A.S., redaktor; POGREBNYAK, P.S., redaktor; RUBENCHIK, L.I., redaktor; NEMIROVSKIY, R.M., redaktor; SIVACHENKO, Ye.K., tekhnicheskiy redaktor.

[Selected works in three volumes] Izbrannye trudy v trekh tomakh. Kiev, Izd-vo Akademii nauk USSR. Vol.1. [Works on plant physiology] Raboty po fiziologii rastenii. 1956. 478 p. (MLRA 9:6)
(Botany--Physiology)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROV, D.K.; BACHURINA, G.F.

Mosses of steppe preserves of the Academy of Sciences of the Ukrainian S.S.R. Ukr.bot.zhur.13 no.2:78-84 '56.(MIRA 9:9)

1.Institut botaniki AN URSR, Viddil sporovikh roslin.
(Ukraine--Mosses)

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(Dnieper River--Botany) (Botany--Dnieper River)
(Kakhovka Reservoir--Botany) (Botany--Kakhovka Reservoir)

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TSEYEB, Ya.Ya.; ROLL, Ya.V.[deceased]; ZEROV, K.K.; VLADIMIROVA, K.S. [Vladymyrova, K.S.]; OLIVARI, G.A.[Olivari, H.A.]; GURVICH, V.V.; BIRGER, T.I.[Birher, T.I.]; MALYAREVSKAYA, O.Ya. [Maliarevs'ka, O.IA.]; CHORNOGORENKO, M.I.[Chernohorenko, M.I.]; LITVINOVA, M.O.[Lytvynova, M.O.]; ANDRIYCHUK, M.D., red.

[Kakhovka Reservoir; a hydrobiological outline] Kakhovs'ke vodoimyshche; hidrobiologichnyi narys. Kyiv, Naukova dumka, 1964. 303 p. (MIRA 17:8)

1. Akademiya nauk URSR, Kiev. Instytut hidrobiologii.

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TOMASHEVICH, G.N.; ZERNOVA, A.E.

Chemistry and restoration. Priroda 52 no.6:104-106 '63.
(MIRA 16:6)

1. Gosudarstvennaya tsentral'naya khudozhestvenno-restavratsionnaya masterskaya, Moskva.
(Art objects--Conservation and restoration)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROVA, M.D.

Studying the jointworm chalcids(genus Harmolita Motsch) and chalcids parasitic pests of some gramineous plants of the western provinces of the Ukraine. Visnyk. Kyiv. un. no.2. Ser. biol. no.2:47-49'60. (MIRA 16:8)
(UNKRAINE, WESTERN—CHALCID FLIES)
(UKRAINE, WESTERN—GRASSES—DISEASES AND PESTS)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROVA, M.D.

Species of the genus Tetramesa Wlk. (Hymenoptera, Eurytomidae) damaging Stipa, Bromus, Zerna in the Ukrainian S.S.R. Ent. oboz. 44 no.3:632-647 '65. (MIRA 18:9)

1. Institut zoologii AN UkrSSR, Kiyev.

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROVA, M.D.

A new species of eurytomid flies of the genus Tetramesa Wlk. (Hymenoptera, Eurytomidae). Dop. AN URSR no.7:954-957 '65. (MIRA 18:8)

1. Institut zoologii AN UkrSSR.

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

BELAVIN, Oleg Vasil'yevich, dots.; ZERKOVA, Margarita Vladimirovna, dots.; GANIN, I.K., red.

[Modern means of radio navigation] Sovremennye sredstva radionavigatsii. Moskva, Sovetskoe radio, 1965. 279 p.
(MIRA 18:10)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

AUTHORS: Levin, G.A. and Zerova, M.V. Sov/106-58-2-1/16

TITLE: Tuning Error in a Pulse-signal Receiver Using a.f.c. With a Diode-phantastron Control Circuit (Oshibka v nastroyke priyemnika impul'snykh signalov pri primenenii APCh s diodno-fantastronnoy skhemoy upravleniya)

PERIODICAL: Elektrosvyaz', 1958, Nr 2, pp 3 - 11 (USSR).

ABSTRACT: The input signal is mixed with a local oscillation whose frequency may be controlled by a voltage. The output of the mixer is fed via a tuned amplifier to a discriminator, the cross-over frequency of the discriminator and the centre frequency of the amplifier being the same. The voltage pulses out of the discriminator are amplified and fed to the diode-phantastron circuit. In the absence of discriminator output, the phantastron produces a saw-tooth voltage waveform, causing the local oscillator to "search" over the frequency scale. The grid of the phantastron is returned to earth via the diode, connected as a d.c. restorer. Discriminator pulses appearing across the diode produce a negative voltage which stops the search. The anode voltage of the phantastron is now dependent on the voltage at its grid and behaves like an ordinary "integrator". The following assumptions are made in

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the analysis of the circuit:- within the working limits, the discriminator characteristic, the control characteristic of the local oscillator and the anode-grid relation of the phantastron valve when used as an amplifier are all linear; the pulses are rectangular; distortion suffered in transit through the narrow-band and video amplifiers are neglected; the diode characteristic is piecewise linear. Since the relations in the rest of the loop are independent of time, interest is centred on the behaviour of the control circuit. Analysis of the circuit of Figure 4 yields equations (9) and (10) which describe the way in which the grid voltage of the phantastron varies in the interval between pulses. Eqs.(13), (14) and (15) give the deviation of local oscillator frequency from nominal value and the time-rate of change. Because of the periodic nature of the signal, the local oscillator frequency will also have a saw-tooth variation. The tuning error is defined as the peak deviation of local oscillator frequency from the cross-over point of the discriminator and is given by Eq.(20). This error will be the less, the higher the video gain and

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Tuning Error in a Pulse-signal Receiver Using a.f.c. with a Diode-phantastron Control Circuit

discriminator slope, the greater the ratio of pulse-length to charge time of capacitor C_1, the smaller the ratio of repetition period to discharge time of C_1. When the tuning error is large, it is sometimes advisable to displace the crossover frequency of the discriminator away from the nominal amplifier band-centre.
There are 7 figures and 1 Soviet reference.

SUBMITTED: March 4, 1957

Card 3/3 1. Electronic equipment--Performance 2. Electric circuits--Analysis
3. Electron tubes--Control systems

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ACC NR: AM6003233 Monograph UR/

Belavin, Oleg Vasil'yevich; Zerova, Margarita Vladimirovna

Modern methods of radio navigation (Sovremennyye sredstva radionavigatsii) Moscow, Izd-vo "Sovetskoye radio", 65. 0279 p. illus., biblio. Errata slip inserted. 9,300 copies printed.

TOPIC TAGS: spacecraft navigation equipment, radar tracking, radar system, doppler tracking, artificial satellite orbit, orbit parameter

PURPOSE AND COVERAGE: This book views the principles of operation of modern radar devices and systems and describes their basic characteristics. Special attention is given to radar systems designed to secure guidance of cosmic flight instruments. Methods are given for determining orbit parameters by measuring navigational dimensions with statistical determinations. Variants of schemes for units or radar devices are given as well as estimates of measurement precision. This book is recommended as a text for students of radio technology specialties in aviation institutes, and it can also be useful to engineers working with radar devices.

TABLE OF CONTENTS: (abridged):

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ACC NR: AM6003233

SUB CODE: 17,22/ SUBM DATE: 21Aug65/ ORIG REF: 052 OTH REF: 025

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ACC NR: AT6037046 SOURCE CODE: UR/0000/66/000/000/0078/0096

AUTHOR: Zerova, M. V. (Candidate of technical sciences, Docent)

ORG: none

TITLE: Transformation of the frequency spectrum when a pulse-phase modulated signal passes through a delay system and an amplifier which is switched by the input undelayed signal

SOURCE: Moscow. Aviatsionnyy institut. Teoriya i tekhnika radiolokatsii (Radar theory and techniques); sbornik statey, no. 1. Moscow, Izd-vo Mashinostroyeniye, 1966, 78-96

TOPIC TAGS: Doppler radar, pulse phase modulation, frequency conversion

ABSTRACT: The article considers the time structure and the frequency spectrum of a signal at the output of a device consisting of a delay circuit and an amplifier which is switched by the pulse-phase modulated input signal. It is assumed that the input signal consists of an infinite sequence of rectangular pulses of duration τ_p, with a time position given by the expression

$$t_k = kT_0 + \Delta t_k;$$
$$\Delta t_k = \Delta T \sin \Omega k T_0;$$

where $\Omega = \frac{2\pi}{NT_0}$.

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ACC NR: AT6037046

is the wobbulation frequency. Expressions are derived which make it possible to find any component of the output signal frequency spectrum. The nature of this frequency spectrum is affected by the delay time of the input signal. As an example, the variation in the constant component and in the amplitude of the first, second and third harmonic wobbulation frequency as a function of the delay time, is considered. In this case only the intensity of the spectrum components varies when going from one period to another. Orig. art. has: 8 figures, 25 formulas.

SUB CODE: 17,09/ SUBM DATE: 15Jul66/ ORIG REF: 003/ OTH REF: 002

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

SOV/106-59-3-5/12

AUTHOR: Zerova, M.V.

TITLE: The Capture Processes in an A.F.C.System with Diode-Phantastron Control Circuit in the Transition from a Search Regime to Automatic Tuning (Protsessy ustanovleniya v sisteme apch s diodno-fantastronnoy skhemoy upravleniya pri perekhode ot poiskovogo rezhima k avtopodstroyke)

PERIODICAL: Elektrosvyaz', 1959, Nr 3, pp 32-40 (USSR)

ABSTRACT: The circuit (Ref 1,2) can be described by the block diagram of Fig 1; a control circuit is shown in Fig 2 and waveforms in Fig 3. The present article is devoted to the transition from search to follow; it is assumed that during this time the signal remains at a fixed frequency. Eq 1 (from Ref 3) gives two expressions, the first is for the deviation of a local oscillator frequency from a steady-state value at the end of the N-th period, in terms of that at the beginning of a period; the second expression is an analogous one for the rate of change of the local oscillator frequency. Fig 4 shows diagrammatically the frequency deviation of a local oscillator during the search regime, it corresponds to

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The Capture Processes in an A.F.C.System with Diode-Phantastron Control Circuit in the Transition from a Search Regime to Automatic Tuning

the amplitude of the pulse at the output of the amplifier equalling the voltage across the input condenser to the phantastron. The exact course of the transient response depends on the initial conditions, that is, the initial frequency deviation. Eq 5 is a general expression for the transient response, the exact form of the response depends on the relative values of a, a_{k1}, a_{k2}; when $a \leq a_{k1}$ the response is always monotonic. When $a = a_{k1}$ the speed of working is greatest, for this condition the response is given in Fig 5 for various time constants. When $a \geqslant a_{k2}$, three other cases may arise: the signal may be captured after a damped oscillation, a continuous oscillation may develop, or the signal may be captured temporarily, then finally lost for good. When a lies between the values of the other two coefficients it is possible for the signal to be lost but there is very wide latitude in the choice of circuit time constants. The values of the

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a-coefficients are defined at the top of page 36. The author thanks Professor G.A.Levin for valuable advice. There are 8 figures and 2 Soviet references.

SUBMITTED: 31st January 1958

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

SOV/106-58-11-3/12

AUTHOR: Zerova, M.V.

TITLE: The Transient Process Caused by a Change in Signal Frequency in an AFC System with a Diode-Phantastron Control Circuit (Perekhodnyy protsess v sisteme APCh s diodno-fantastronnoy skhemoy upravleniya, obuslovlennyy izmeneniyem chastoty signala).

PERIODICAL: Elektrosvyaz', 1958, No.11, pp.18-28 (USSR)

ABSTRACT: The block diagram is shown in Fig.1 and the arrangement of diode and phantastron is given in Fig.2. The behaviour of this type of circuit is different for positive and negative control signals from the video amplifier, and in this article only the first type of change is considered as being the more interesting. The basis of the study is the results obtained in a previous article by the author (Ref.1) in which the diode characteristic was approximated by a stepwise-linear curve which enabled the connection to be established between system conditions at the end of the n-1 and n-th periods. The point of departure is the linear transformation (1). Here Δf_g is the deviation

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The Transient Process Caused by a Change in Signal Frequency in an AFC System with a Diode-Phantastron Control Circuit.

of frequency from its nominal value, $d\Delta f_g/dt$ is the rate of change of frequency and $a_{11} \ldots a_{23}$ are constant coefficients dependent on the parameters of the a.f.c. system. This transformation may be succintly expressed in terms of the matrix A. It also follows that the connection between the states of the system at the ends of the n-th period and initially is given by A^n. To determine this transformation it is convenient to transform coordinates. The elements of the converting matrix are found by solving the equation system (2). The basic equation of the a.f.c. system is given by (3), (4), (5) and (6) while the matrix elements are in (8). Eq.(12) describes the transient process in the circuit when there is a step-change in signal frequency, while (13) estimates the variation in rate of change of frequency during the process. The response is aperiodic when the roots of the characteristic equation θ_1 and θ_2 are positive and less than unity. If $\theta_1 \neq \theta_2$, then the number of periods required to reduce the initial detuning by a factor μ is given by the

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The Transient Process Caused by a Change in Signal Frequency in an AFC System with a Diode-Phantastron Control Circuit.

expression for n (near the foot of p.23). If $\theta_1 = \theta_2$ the corresponding formula is (16). This latter condition for the roots is only fulfilled if (17) for a is satisfied. Fig.3 shows the number of periods n for detuning correction as a function of a for various values of $e^{-\gamma}$ and $\mu = 10$. The greater the coefficient a, the more rapidly does the system approach the steady-state. The operating speed of the system is increased for an increase in system gain, the ratio T/RC_2, the ratio t_μ/T_3 and T_1/T. If the transient response is permitted to have an overshoot, two important cases may be distinguished. 1. When $a > 1$. The maximum frequency deviation occurring is (18). It is evident from Figs.4 and 5 that a considerable overshoot occurs, and in practice this leads to a reduction in operating speed. 2. $a_k < a < 1$. The equation for the transient process is (19), the maximum frequency deviation (21), the number of periods n to reduce detuning by a factor μ is in Fig.6. The magnitude of the overshoot increases with the initial

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The Transient Process Caused by a Change in Signal Frequency in an AFC System with a Diode-Phantastron Control Circuit.

frequency deviation, the system gain, the ratio T/RC_2, the ratio t_y/T_3 and the ratio T_1/T. The author thanks Professor G.A. Levin for his valuable advice. There are 7 figures and 1 Soviet reference.

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ZEROVA, M. Ya.; VOROB'YEV, D. V.

"Ectotrophic Mycorhiza on Species of Trees and Bushes in the Steppe Environment of the Ukrainian SSR," Botan Zhur, Kiev, 1950, Vol VII, Issue 1.

Mikrobiologiya, Vol XX, No. 5, 1951. W-24635.

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROVA, M. Ya.

"Scleroderma verrucosum (Waill.) Pers., One of the Mycorhizal Fungi of Tree Varieties in the Steppe Environment of the Ukrainian SSR," Botan Zhur, Kiev, 1951, Vol VII, No. 4

Mikrobiologiya, Vol XX, No. 5, 1951
[redacted]-W-24635.

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1. ZEROVA, M.Ya, ROMASHKO, Ya.D.

2. USSR (600)

7. "Heart Rot as One of the Causes of Premature Fall of the Fruit of the Apple Tree", Botanichniy Zhurnal, Vol 7, No 3, 1950, pp 52-65.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

1. ZEROVA, M. YA.

2. USSR (600)

7. "Interesting Fungi, New to the USSR, on the Pontic Azalea (Asalea pontica L.)", Botanichniy Zhurnal AN USSR (Botanical Journal of the Acad Sci Ukrainian SSR), Vol 8, No 2, 1951, pp 75-79.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

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ZEROVA, M.Ya.

Fungus diseases of the smoke tree (Cotinus coggygria Mill.). Bot.zhur. [Ukr.] 8 no.3:64-77 '51. (MLRA 6:9)

(Smoke tree--Diseases and pests)

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ZEROVA, M.Ya.

Fungus diseases of species of the maple on the right bank of the Ukrainian S.S.R. Bot.zhur.[Ukr.] 9 no.1:27-52 '52. (MLRA 6:11)

1. Institut botaniki Akademii nauk Ukrains'koi RSR, Viddil mikologii. (Ukraine--Maple--Diseases and pests) (Diseases and pests--Maple--Ukraine) (Ukraine--Fungi, Pathogenic) (Fungi, Pathogenic--Ukraine)

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ZEROVA, M.Ya.

Fungus diseases of the Siberian acacia and elms caused by species of Kycosphaerella in the Ukrainian S.S.R. Bot.zhur.[Ukr.] 9 no.3:55-65 '52. (MLRA 6:11)

1. Instytut botaniky Akademiyi nauk Ukrayins'koyi RSR, Viddil mikologiyi. (Ukraine--Fungi, Pathogenic) (Fungi, Pathogenic--Ukraine) (Elm--Diseases and pests) (Acacia--Diseases and pests)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROVA, M.Ya.

Fungus diseases of ash on the right bank region of the Ukrainian S.S.R. (MLRA 6:8)
Bot.zhur.[Ukr.] 10 no.1:23-36 '53.
(Ukraine--Ash (Tree)--Diseases and pests) (Diseases and pests--Ash (Tree)--Ukraine)

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ZEROVA, M.Ya.; YEFIMOVA, N.I.

Effect of mycorhizal fungi found in oak groves of the steppe on the development of oak seedlings in a vegetative experiment. Bot.zhur. [Ukr.] 10 no.2:32-45 '53. (MLRA 6:6)

1. Instytut botaniky AN URSR. Viddil mikologiyi.
(Oak) (Mycorhiza)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROVA, M.Ya.

New species of mycorhizal fungi for the Ukrainian S.S.R., Lactarius insulsus Fr. and Tricholoma imbricatum (Fr.) Quél. Bot.zhur. [Ukr.] 10 no.3:67-71 '53. (MLRA 6:8)

1. Instytut botaniky Akademiyi nauk Ukrayins'koyi RSR, viddil mikolohiyi. (Ukraine--Fungi) (Fungi--Ukraine)

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ZEROVA, M.Ya.

Parasitic microflora of forest plantations of the right bank of the Ukrainian S.S.R. Bot.zhur. [Ukr.] 10 no.4:66-74 '53. (MLRA 6:12)

1. Institut botaniki Akademii nauk Ukrains'koi RSR, viddil mikologii.
(Ukraine--Parasitic plants) (Trees--Diseases and pests)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZEROVA, M.Ya.

Occurrence of the mycorhizal fungus Scleroderma verrucosum (Vaill.) Pers and certain other species of gasteromycetes in the Ukrainian S.S.R. Bot.zhur.[Ukr.] 11 no.2:63-74 '54. (MIRA 8:7)

1. Institut botaniki AN URSR, viddil mikologii.
(Ukraine--Gasteromycetes)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510006-9

ZERCVA, M.Ya.

Rare fungus, Calvatia candida (Rostk.) Hollos., new to the Ukrainia S.S.R. Bot.zhur. [Ukr.] 12 no.1:78-82 '55. (MIRA 8:9)

1. Institut botaniki AN URSR, viddil mikologii
(Ukraine--Fungi)

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