PANFILOV, A.V.; KUZUB, V.S.; PALAMARCHUK, I.V.

Joint action of surface active substances on the electrocapillary curve. Dop.AN URSR no.6:813-816 '60. (MIRA 13:7)

1. Chernovetskiy gosudarstvenny universitet. Predstavleno akademikom AN USSR Yu.K.Delimarskim [IU.K.Delimars'kym].

(Surface active agents) (Surface tension)

PALAMARCHUK, M.

"New methods of mechanization of the harvesting and transportation of sugar beet in the USSR."

MECHANISAGE CEM DELCTVI, Praha, Czechoslovakia, Vol. 5, No. 20, October 1955.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.
Unclassified.

PALAMARCHUK, M.D.; USHAKOV, A.F.; KLYAVIR, I.Yu.; KITAYTSEVA, E.P.

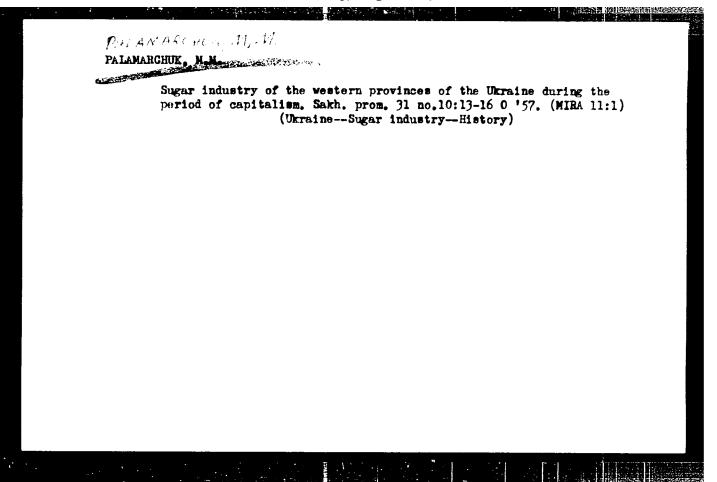
How means for the mechanical harvesting and hamling of sugar beets.

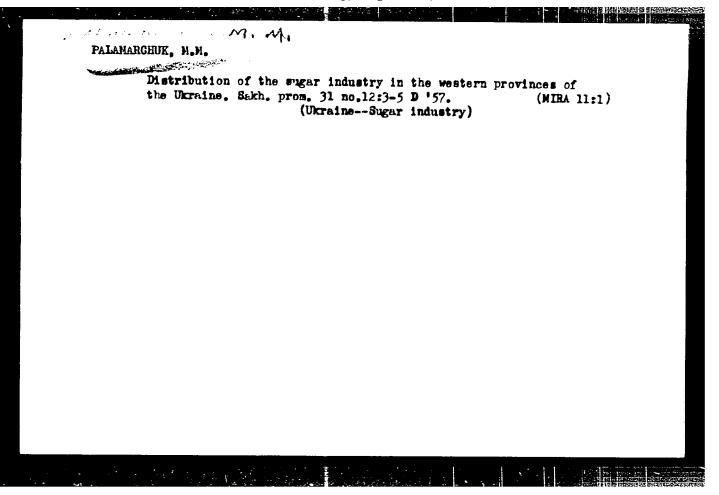
(Combines (Agricultural machinery)) (Sugar beets—Transportation)

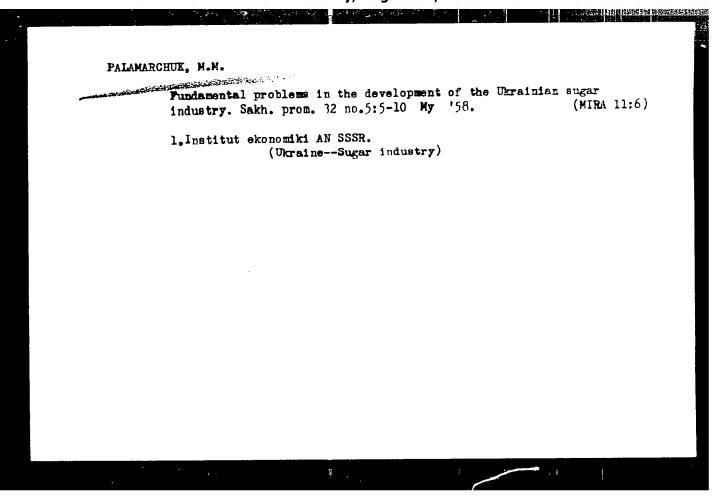
(MIRA 8:11)

### PALAMARCHUK, M.M.

Beginning of the beet-sugar industry in western provinces of the Ukrainian SSR. Sakh.prom.31 no.3:74-76 Mr 157. (MLRA 10:4)







### PALAMARCHUK, M.M.

Story of the development of the sugar industry in the Levy Recommendation. Sakh.prom. 39 no.10:15-18 0 '60. (MIRA 13:10)

1. L'vovskiy torgovo-ekonomicheskiy institut.
(Lvov Economic Region--Sugar industry)

BUKHALO S.M., doktor ekon. nauk, prof.; VOLOBOY, P.V., kand. ekon. nauk; KUGUKALO, I.A.[Kuhukalo, I.A.], kand. ekon. nauk; PALAMARCHUK, M.M., doktor ekon. nauk, prof.; SLYUSAR, V.D., kand. ekon. nauk; GLADYSHEV, I.S.[Hladyshev, I.S.], st. inzh.-ekonomist; TSYASHCHENKO, P.S., kand. ekon. nauk; PETRUNEVICH, E.G. [Petrunevych, IE.H.], st. inzh.-ekonomist; GRADOV, G.L.[Hradov, H.L.], kand. ekon. nauk; KHAZANET, S.M., red.

[The economic regions of the Ukrainian S.S.R.; a manual] Ekonomichni raiony URSk; dovidnyk. Kyiv, haukova dumka, 1965.
190 p. (MIRA 18:5)

1. Sovet po izucheniyu produktivnykh sil Ukrainskoy RSR Gosudarstvernogo planovogo komiteta Ukr. RSR(for all except Khazanet).

LAVRISHCHEV, Aleksey Nikitich, doktor geogr. nauk, prof.;

PALAMARCHUK, M.M., prof., retsenzent; SLAVIN, S.V.,

prof., retsenzent; RYAZANTSEV, S.N., dots., retsenzent;

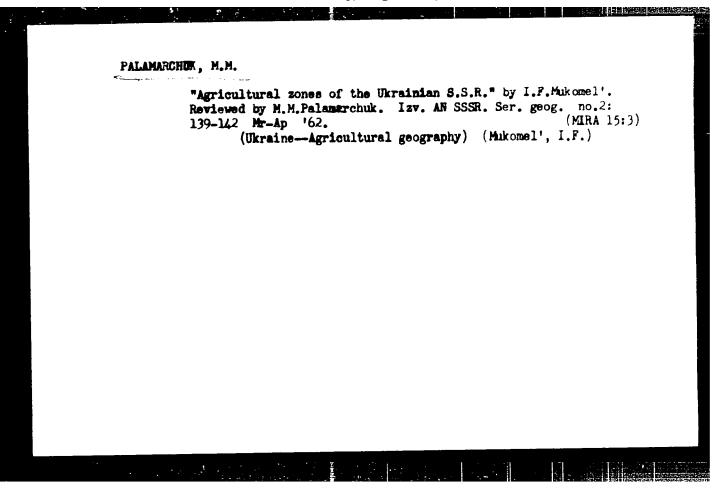
KUGUSHEV, N.G., dots., retsenzent; KISTANOV, V.V., kand.

ekon. nauk, retsenzent; GLYAZER, L.S., red.; TARASOVA,

T.K., mlad. red.; PONOMAREVA, A.A., tekhn. red.;

GERASIMOVA, Ye.S., tekhn. red.

[Economic geography of the U.S.S.R.; general part, the geography of industry, agriculture, and transportation] Ekonomicheskaia geografiia SSSR; obshchaia chast', geografiia promyshlennosti, sel'skogo khoziaistva i transporta. Moskva, Izd-vo "Ekonomika," 1964. 558 p. (MIRA 17:3)



SHEVCHENKO, Anton Yefimovich; PALAMARCHUK, M.M., doktor ekon. nauk, prof., otv. red.; KOROBKO, V.I., red.; MATVIICHUK, O.A., tekhn. red.

[Industrial development and its role in creating the productive forces of communism]Rozvytok promyslovosti ta ii rol' u stvorenni produktyvnykh syl komunizmu. Kyiv, 1962. 37 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Seriia 3, no.5) (MIRA 15:12)

(Russia-Industries)

Marine Comment

USSR/General Problems. Methodolc y. History. Scientific

Institutions and Conferences. Instruction. greations Concerning Riblio rathy and Point-

tific ocumentation

Abs Jour : Ref War-Malmiya, No 4, 1994, A45

Author

: M. M. galamarchuk

Inst

Title : Sugar Industry in Lestern Expainian e ions During the Capitalistic eriod

Orig ub : Sakharraya prom-st', 1 60, No 10, 13-15

Abstract : No abstract

Card 1/1

PALAMARCHUK Maksim Martynowich, kand.ekonomichnykh nauk.; SIROTSINSKIY, K.Yo., [SIROTSINSKIY, K.IZ], prof. doktor ekonomichnykh nauk, red.; MERZLIKIN, I.G., red.;

[Development of sugar beet growing and the sugar industry in the Ukraine] Rozvytok buriakkosiiannia i tsukrovoi promyslovosti na Ukraini. Kyiv. 1958. 39 . (Tovarystvo dlia posyreunia politychnykh i naukovykh znani Ukrainsikoi RSR. Ser. 2, no.7) (MERA 11:8) (Ukraine--Sugar industry)

Delication of the second

ZADOROZHNYY, Vasiliy Kirillovich: [Zadorozhnyi, V.]; PALAMARCHUK,
Maksim Martynovich; DUBOVENKO, Ye. [Dubovenko, IS.], red.;
LYANKIN, V., tekhn.red.

[Achievements in the economic development of the western provinces of the Ukrainian S.S.R.] Uspikhy ekonomichnoho rosvytku sakhidnykh oblastey Ukrains'koi RSR. Kyiv, Derzh. vyd-vo polit.lit-ry URSR, 1960. 171 p. (MIRA 13:5) (Ukraine, Western-Economic conditions)

PALAMARCHUK, Maksim Martynovich; IERSHIN, F.N., akademik, otto red.; BOYARKIN, V.N., red.

[Sugar beet production in the Ukrainian S.S.R.] Svekic-sakharnoe proizvodstvo Ukrainskoy SSR. Kiev, Naukova dumka, 1964. 214 p. (MIRA 18:3)

1. Akademiya nauk Ukr. SR (for Pershin).

L 16596-65 EPA(s)-2/EWT(m)/EPF(c)/ENP(j)/T Po-4/Pr-4/Pt-10 ESD(c) MLK/RM ACCESSION NR: AT4048195 B/0000/64/000/000/0303/0306

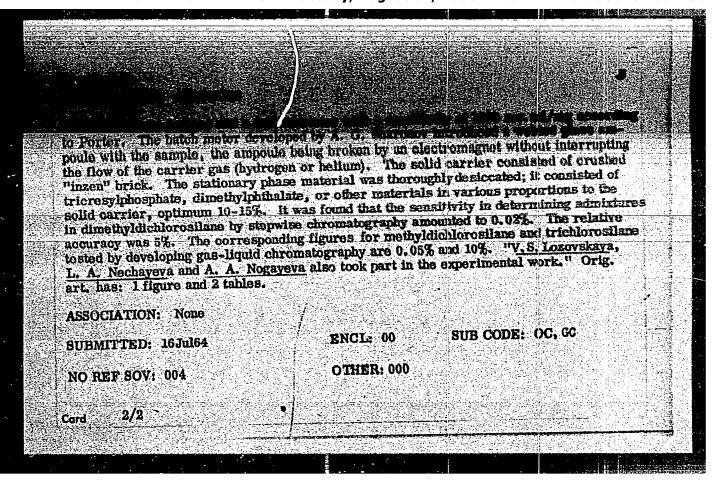
AUTHOR: Palamarchuk, N. A.; Syavtsillo, S. V.; Turkel'taub, N. M.

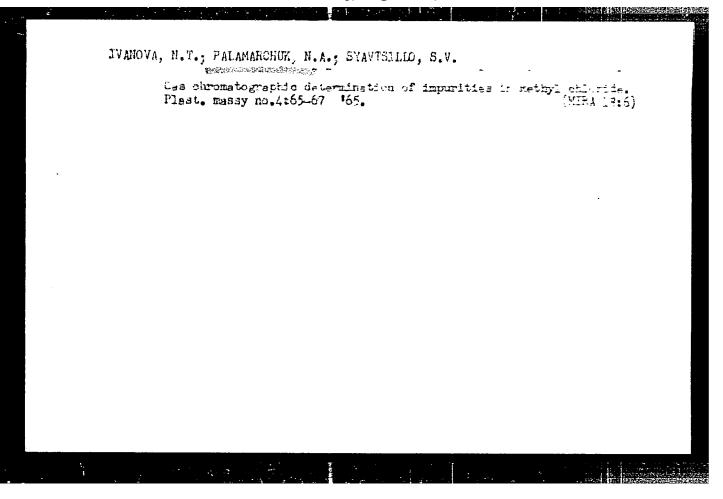
TITLE: Admixture determination in monomeric silicoorganic compounds by the chromatographic method

SOURCE: Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po gazovoy khromatografii. 2d, Moscow, 1962. Gazovaya khromatografiya (Gas chromatography); trudy\* konferentsii. Moscow, Izd-vo Nauka, 1964, 303-306

TOPIC TAGS: admixture determination, silicon semiconductor, silane chromatography, gas liquid chromatography, silicoorganic compound

ABSTRACT: The authors point out that the following undestrable admixtures are frequently encountered in the monomeric silicoorganic compounds used in the production of polymers or silicon semiconductors: in dimethyldichlorosilane - trimethylchlorosilane and methyl-trichlorosilane; in methyldichlorosilane - trichlorosilane, dimethylchlorosilane, silicon trichlorosilane; in methyldichlorosilane - trichlorosilane, dimethylchlorosilane, silicon trichlorosilane; in methyldichlorosilane - trichlorosilane, dimethylchlorosilane, silicon trichlorosilane, in methyldichlorosilane - trichlorosilane, dimethylchlorosilane, silicon trichlorosilane, sili





TURKEL'TAUB, N.M.; PALAMARCHUK, N.A.; SHEMYATENKOVA, V.T.; SYAVTSILLO, S.V.;
Frinimali uchastiye; NECHAYEVA, L.A.; KHVOSHCHKVSKAYA, A.A.;
RALABANOVA, Ye.N.

Chromatographic analysis of organosilicon compounds. Plast.massy no.4:51-56 '61. (MIRA 14:4)

(Silicon organic compounds)

(Chromatographic analysis)

SHEMY ATENKOVA, V.T.; PALAMARCHIK, N.A.; KHVOSHCHKVSKAYA, A.A.; STAVTSILLO, S.V.

Controlling the production of organosilicon liquids and lacquers.

Report 1: Analysis of the starting mixtures used in the organomagnesium synthesis of ethyl- and ethoxyphenylsilanes. Plast.

massy no.3:27-30 '60. (MIRA 13:6)

(Silane)

KRESHKOV, A.P.; SHEMYATENKOVA, V.T.; SYAVISILLO, S.V.; PALAMARCHUK, N.A.
Prinimali ushastiyo: KHYOSHCHEVSKAYA, A.A.; KHARCHEVNIKOVA, L.M.

Determination of phenyl radicals in organosilicon compounds. Zhuranal. khim. 15 no.5:635-638 S-O 160. (MIRA 13:10)

1. D.I. Hendeleev Moscow Chemico-Technological Institute.

(Silicon organic compounds) (Phenyl group)

S/191/61/000/004/006/009 B110/B208

AUTHORS:

Turkel'taub, N. M., Palamarchuk, N. A., Shemyatenkova, V. T.,

Syavtsillo, S. V.

TITLE:

Chromatographic analysis of organosilicon compounds (analysis of the reaction mixture of the direct synthesis of methyl chloro-silanes)

PERIODICAL: Plasticheskiye massy, no. 4, 1961, 51-56

TEXT: The numerous chloro-compounds contained in the reaction mixture of the direct synthesis of methyl chloro-silanes, such as HCl. CH<sub>3</sub>Cl. (CH<sub>3</sub>)<sub>4</sub>Si, HSiCl<sub>3</sub>. (CH<sub>3</sub>)<sub>2</sub>HSiCl, CH<sub>3</sub>HSiCl<sub>2</sub>, (CH<sub>3</sub>)<sub>5</sub>SiCl, SiCl<sub>4</sub>, CH<sub>3</sub>SiCl<sub>5</sub>. (CH<sub>3</sub>)<sub>2</sub>SiCl<sub>2</sub> etc. have hitherto been fractionated and determined with respect to density and chlorine content. K. K. Popkov suggested analysis by means of dispersion spectra. These methods, however, are not applicable to automatic production control. Gas chromatography is adequate for this purpose. The optimum conditions for the separation of methyl chlorosilanes have now been determined. Fig. 1 shows the device used. Helium

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s/191/61,000/004/006/009 B110/B208

Chromatographic analysis of ...

served as the carrier gas. The temperature of the dosing device, the detector, and the column was adjusted by a thermostat with an accuracy of 0.5°C The components were identified from the retained volume  $V_{\mbox{\it g}}^{\mbox{\scriptsize o}}$  The percentual concentration  $C_i$  was calculated by measuring the area of the peaks according to  $C_i = \left[ (S_i \cdot K_{gi}) / (\sum S_j \cdot K_{gj}) \right] \cdot 100$ , where  $S_i$  area of the peak;  $K_{\text{Si}} = \text{standardizing coefficients of all components of the system}$ studied. The equation  $K_{si} = (S_c/S_i) \cdot (C_i/C_c)$  holds, where  $S_c = surface$ of the peak;  $C_{C}$  = concentration of the standard component. The following data were studied: dependence of the degree of separation on the various static and dynamic parameters, nature of the solid carrier, stationary phase, velocity and moisture content of the carrier gas, and column temperature. Carrier gas, solid carrier, and stationary phase have to be carefully dried. Celite-545 (water capacity 0.02 %) and annealed Inza clinker of the type 600 (water capacity 0.87 %) were used as solid carriers. To study the effect of the stationary phase on the degree of separation, non-polar compounds (vaseline oil and dodecane), highly polar compounds (nitrobenzene and diethylene glycol ester of n-butyric acid), as well as

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S/191/61/000/104/006/009 B110/B208

Chromatographic analysis of ...

the polyethyl-siloxane liquids BKW -94 (VKZh-94) and TM2-200 (PMS-200), the polymethyl-phenyl-siloxane liquids Tiple-3 (PFMS-3), Tome-4 (PFMS-4), and A(-703 (DS-703) with different degrees of polarity were studied. Complete separation was accomplished by Tem(-4 (PFMS-4) polymethyl-phenyl-siloxane and vaseline oil, as well as by TTMC-3 (PFMS-3) and AC-703 (DS-703). The optimum velocity of the carrier gas is of = 80 cm/min at a maximum separation criterion  $K_1 = 2.6$  and minimum theoretical plate height H = 0.21 cm for  $(CH_2)_2SiCl$  and  $CH_2SiCl_3$ . The lowest theoretical plate height H=2.4 cm is obtained at  $40^{\circ}C$ . The separation criterion decreases with rising temperature. Only three experiments were carried out: 1) As a stationary phase, nitrobenzene (20 % of the total weight of the adsorbent) was applied to Inza clinker (granulation 0.25-0.5 mm). Separation of HCl, CH3C1, SiCl4, (CH3)3SiCl, (CH3)2SiCl2, and CH3SiCl3 was attained at 40°C and 20 min duration of the experiment with a 2 m long column 4-5 mm in diameter (Fig. 4). In the second experiment, two columns connected in series were used. The first 1 m long column (diameter 4 mm) contained T4MC-4 (PFMS-4) (15 % of the total adsorbent weight), and the second 3 m long column (diameter 4 mm), vaseline oil (15 % of the total adsorbent

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S/191/61/000/304/006/009 B110/B208

Chromatographic analysis of ...

weight). The solid carrier was celite-545. At 40°C, the following compounds were thus separated: HCl, CH<sub>3</sub>Cl, (CH<sub>3</sub>)<sub>4</sub>Si, HSiCl<sub>3</sub>, CH<sub>3</sub>HSiCl<sub>2</sub>, (CH<sub>3</sub>)<sub>3</sub>SiCl<sub>3</sub>, (CH<sub>3</sub>)<sub>2</sub>SiCl<sub>2</sub>. The stationary phase of the third experiment was ToMC-3 (PFMS-3) and AC-703 (DS-703) (20 % of the total absorbent weight). The solid carrier was Inza clinker. The following compounds were separated at 40°C with a 4 m long column (diameter 4 mm): HCl, CH<sub>3</sub>Cl, HSiCl<sub>3</sub>, CH<sub>3</sub>HSiCl<sub>2</sub>, (CH<sub>3</sub>)<sub>3</sub>SiCl, SiCl<sub>4</sub>, CH<sub>3</sub>SiCl<sub>3</sub>, (CH<sub>3</sub>)<sub>2</sub>SiCl<sub>2</sub>. The following co-workers are mentioned: L. A. Nechayeva, A. A. Khwoshchevskaya and Ye. N. Balabanova. There are 6 figures, 5 tables, and 13 references: 8 Soviet-bloc and 5 non-Soviet-bloc. The references to English-language publications read as follows: Ref. 10: L. C. Curran, R. M. Witucki, P. A. McCusker, J. Am. Chem. Soc., 72, No. 10, 4471 (1960) Ref. 11: Edward, L. Reilly, J. Am. Chem. Soc., 76, No. 12, 3311 (1954) Ref. 12: W. H. Mefadden, Anal. Chem., 4, 479 (1958).

Card 4/10

DMP(-j)/EEF(-c)/EAF(-a)/EDS - ASD -: Pd-3/Pc-4: 28/A6 ACCESSION NR: AT3002347 8/2513/63/013/000/0277/0283 AUTHOR: Palamarchuk, N. A.; Symvtsillo, S. V.; Turkel'tanb, N. M.; Shemyatenkova, V. T. TIVE: Enrosatographic determination of chlorostlanes SOURCE: AN SSSR. Komissiya po analiticheskoy khimii. Trudy, v. 13, 1963. Organicheskiy analiz, 277-283 TOPIC TAGS: chromatography, chlorosilans, belium, celite, dimethyldichlorosilane, benzylbenzoate ABSTRACT: This investigation is a continuation of a previous work which was done on the separation of chlorosilanes by gas-liquid chromatography. The present investigation was performed under isothermal conditions using helium as the carrier gas and a detector with two platinum elements embedded in glass. Each element had a 30 chm resistance with a sensitivity of 600 mv. ml/mg. The identification of chlorosilanes was made according to their specific gravity and the relative retentive volume. The content of various components was determined by peak areas or peak heights by means of normalization. The solid support celite or distomaceous brick was treated with dimethyldichlorosilane vapors in a dry, **Cord** 1/2

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inert atmosphere after which its misorphica capability sharply decreased. In order to select the most effective stationary phase, several new materials were added to the ones previously investigated. These included benzylbenzoate, dimethylphthalate, dibutylphthalate, dimonylphthalate, tricresylphosphate, and diethylphthalate. On the basis of the obtained data stationary phases were selected which permit a complete separation of the components in a shortest amount of time. The stationary phases which are suggested to be used in an amount of 10% on celite or modified brick are benzylbenzoate, dibutylphthalate and diethylphthalate. With a column of 2.7-3.5 m long and Amm in diameter at a temperature of 30C and 40 ml/min gas flow, a complete separation of the following components takes place: (CH sub 3) sub 2 SiCl sub 2, CH sub 3 SiCl sub 3 SiCl, CH sub 3 HSiCl sub 2, (CH sub 3) sub 2 HSiCl, SiCl sub 4, HSiCl sub 3, H sub 2 SiCl sub 2, and CH sub 3 Cl. The time of analysis is 20 minutes with an accuracy of 2-35 relative error. Orig. art. has: 2 tables and 2 graphs.

ASSOCIATION: nome

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Carl 2/2

TURKEL'TAUB, N.M.; SHEMYATERKOVA, V.T.; PALAMARCHUK, N.A.; HECHAYEVA, L.A.

Accuracy in determining the composition of a mixture by the various methods of interpretation of chromatograms. Zav.lab 26 no.10:1075-1080 '60.

(Chromatographic analysis)

(Chromatographic analysis)

SHEMYATENKOVA, V.T.; PALAMARCHUK, N.A.; KHVOSHCHEVSKAYA, A.A.;

SYAVTSILLO, S.V.

Control of the production of organosilicon liquids and lacquers. Plast.massy no.4:15-17 '60. (MIRA 13:7)

(Silane)

s/075/60/015/005/003/004 B005/B064

Kreshkov, A. P., Shemyatenkova, V. T., Syavtsillo, S. V., AUTHORS:

Palamarchuk, N. A.

Determination of Phenyl Radicals in Organosilicon Compounts TITLE:

Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 5, PERIODICAL:

pp. 635-638

TEXT: The authors of the present paper developed a new method of quantitative determination of phenyl groups in organosilicon compounds. It is based on the ethylation of the respective compound with ethyl bromide in the presence of anhydrous aluminum chloride. This ethylation may take place according to two mechanisms: in one mechanism the Si - C bond is ruptured under the action of AlCl and an organoaluminum compound

forms, that is stepwise ethylated. This ethylation proceeds until the step of hexaethyl benzene is reached. In the other mechanism, under the action of AlCl3, an alumo-organosilicon compound forms, that is ethylated by ethyl bromide. The Si - C bond is solved under the formation of hexaethylene benzene. The reaction schemes of both mechanisms are given

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Determination of Phenyl Radicals in Organosilicon Compounds

S/075/60/015/005/003/004 B005/B064

Hexaethyl benzene is obtained with slight impurities of other ethylating benzene derivatives (Ref. 10) if the reaction products are saponified with water. From the amount of the hexaethyl benzene, it is possible to draw conclusions to the content of phenyl groups in the initial organosilicon compound. Since hexaethyl benzene has a high molecular weight and is not volatile, extremely accurate results are obtained from this determination. If constant conditions are observed in ethylation, also the reproducibility of the results is good. The method described is suited for determining benzene and its derivatives in purely organic compounds. The authors investigated phenyl trichlorosilane, methyl phenyl dichlorosilane, polyphenyl siloxane, polymethyl-phenyl siloxane and other organosilicon compounds with phenyl groups directly bound to silicon. Ethyl bromide serves at the same time as solvent in the reaction. 6-7 g anhydrous aluminum chloride and 35-40 g ethyl bromide are taken for 2-2.5 g of the organosilicon compound to be investigated in the analysis of compounds with onphenyl radical per structural unit. Ethylation is carried out at 3000 and is finished after two hours. After the decomposition of the reaction. products with water, the ethyl derivatives of benzene are extracted with slight amounts of ether. The extract is washed with water until neutral

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Determination of Phenyl Radicals in Organosilicon Compounds

\$/075/60/015/005/003/004 B005/B064

reaction is reached, then ether and the excess ethyl bromide are distilled off. The residue is dried in the vacuum exsiccator over  $P_2O_5$ . After recrystallization from ethanol or glacial acetic acid hexaethyl benzene is obtained in the form of white prisms melting at 126°C. The formula is given with which the content of phenyl groups in the initial compound can be determined. This formula comprises the ethylation coefficient that was experimentally found by ethylating various chemically pure organosilicon compounds. This coefficient has the value 0.91±0.01. A table shows the results of determining the phenyl radicals in phenyl trichlorosilane, methyl-phenyl dichlorosilane, polyphenyl siloxane and polymethyl-phenyl siloxane by the method described. The results are reproducible with an accuracy of  $\pm$  1-1.5% (absolute). A. A. Khvoshchevskaya and L. M. Kharchevnikova took part in the experiments. There are 1 table and 11 references: 6 Soviet, 4 US, and 1 German.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I.

Mendeleyeva (Moscow Institute of Chemical Technology imeni

D. I. Mendeleyev)

SUBMITTED:

July 27, 1959

Card 3/3

s/191/60/000/003/007/013 B016/B054

AUTHORS:

Shemyatenkova, V. T., Palamarchuk, N. A., Khvoshchevskaya, A. A., Syavtsiilo, S.

TITLE:

Control of Production of Organosilicon Liquids and Varnishes. Report I. Analysis of Initial Mixtures of Ethyl- and Phenyl-ethoxy Silanes Used in Organomagnesium

Plasticheskiye massy, 1960, No. 3, pp. 27 - 30

TEXT: The authors report on their rapid and sufficiently accurate method of determining the components of the initial mixture used for the synthesis of 1) ethyl-ethoxy silanes and 2) phenyl-ethoxy silanes. In case 1), it is tetraethoxy silane, ethyl chloride, and toluene (solvent), in case 2), it is tetraethoxy silane, chloro benzene, diethyl ether, and ethyl bromide. The amount of ethyl chloride is determined from the difference before and after its evaporation from the mixture. The remaining tetraethoxy silane and toluene are then determined refractometrically. The ratio between tetraethoxy silane and chloro benzene

Card 1/2

Control of Production of Organosilicon Liquids S/191/60/000/003/007/013 and Varnishes. Report I. Analysis of Initial B016/B054 Mixtures of Ethyl- and Phenyl-ethoxy Silanes Used in Organomagnesium Synthesis

(case 2) can also be determined refractometrically. Small amounts of diethyl ether and ethyl bromide (3.5% each) do not interfere with the determination. In all cases, the authors produced artificial mixtures for experimental purposes, and also studied commercial mixtures. The above-described method is being introduced in industrial test laboratories. A paper by V. L. Anosov (Ref.1) is mentioned. There are 7 tables and 5 Soviet references.

Card 2/2

KERUKH, A.M.; LICHIKAKI, V.M.; PAIAMARCHUK, N.P.; TREGUBOVA, A.S.

Significance of the hydrological properties of soil when determined by indoor cultivation of plants in pots. Dop. AN URSE no.4:275-279 (MLRA 8:4)

1. Ukrains'kiy n.-d. gidrometeorologichniy institut. Predstavleno deystvitel'nym chlenom AN USSR P.S.Pogrebnyakom.

(Soil moisture)

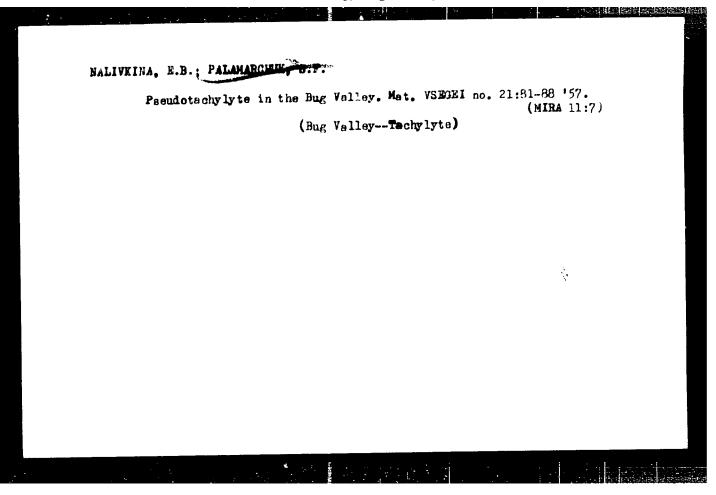
PALAMARCHUK, P.A.

Specialized production. Zhivotnovodstvo 20 no.1:20-24 Ja '58.

(MTRA 11:1)

1. Starshiy zootekhnik Stalinskogo oblsel'khosupravleniya.

(Stalino Province--Poultry)



Our gift to the party congress. Sil'. bud. 11 no.8:5-6
Ag'61. (MIRA 14:9)

1. Stroitel'naya brigada Kodinskoy meshkolkhosnoy organizatsii
Odesskoy oblasti.
(Odessa Province—Construction industry)

DAVYDOV, Aleksey Iosifovich; BODROVA, A., red.; PALAMARCHUK, T., red.; LEV-CHENKO, O., tekhn. red.

[The growth and rapid development of the socialist city of Kiev]
Roste i kvitne sotsialistychnyi Kyiv. Kyiv, Dersh. vyd-vo polit.
lit-ry URSR, 1961. 133 p. (MIRA 14:8)
(Kiev-Description) (Kiev-Economic conditions)

A STREET HER RESIDENCE TO SECURE

ZAGLADA, Nadezhda Grigor'yevna, Geroy Sotsialisticheskogo Truda, deputat Verkhovnogo Soveta USSR; DEMIDYUK, V.F., red.; PALAMARCHUK, T.L., red.; LASTOVETS, Z.S., tekhn. red.; KOPYTKOVA, N.K., tekhn. red.

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[Life, work, and meditations; a story of a field-team leader]
Zhizn', trud, razdum'ia; rasskaz zven'evoi. Kiev, Gospolitizdat USSR, 1963. 114 p. (MIRA 16:12)
(Zaglada, Nadezhda Grigor'evna, 1893-)

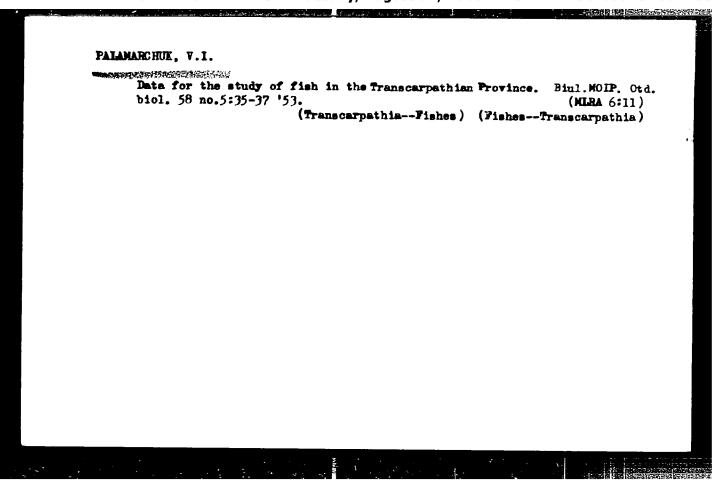
THE REPORT OF

ZAGLADA, Nadezhda Grigor'yevna[Zahlada, N.H.], Geroy Sotsialisticheskogo Truda; DEMIDYUK, V.F.[Demydiuk, V.F.], red.; PALAMARCHUK, T.L., red.; LASTOVETS', Z.S., tekhn. red.

[Life. Work. Meditation; a field leader tells her story]

Zhyttia. Pratsa. Rozdumy; rospovid' lankovoi. Kyiv, Derzhpolitvydav URSR, 1962. 106 p. (MIRA 16:4)

(Ukraine-Agricultural workers)



KRIVKOV, G.A.; VEKSLER, Ya.I.; KORZAN, D.P.; SHEYNGERTS, A.R.; KH4SABOVA, Y.A.; PALAMARCHUK, V.P.

Experimental myocarditis in acute radiation sickness. Pat. fiziol. i eksp. terup. 6 no.4:81-83 Jl-Ag '62. (MIRA 17:8)

# PALAMARCHUE, V.P.

Method of anesthesia and bronchial intubation in bronchography.

Vest. rent. i rad. no.6:62-63 N-D '54. (MIRA 8:1)

(BROECHI, radiography,

anesth. & intubation technics)

(AMESTHESIA, INHALATION,

in bronchography)

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ALEYEJEV, M.V. (Kiev); BURISOV, S.P. (Kiev); PALAMARCUK, V.S. (Kiev)

Seamless insulation from foem polysterene. Stroj vyr 11 no.6:
319 \*63.

ALEKSEYEV, M. V., insh.; BORISOV, S. P., insh.; PALAMARCHUK, V. S., insh.

Manufacturing seamless foam polystyrens insulation. Mashinostroenie no.5:87-89 8-0 162.

1. Proyektno-konstruktorskiy tekhnologicheskiy institut Kiyevskogo soveta narodnogo khosyaystva.

(Styrene, Polymers of) (Insulation(Heat))

Palamarchuk, 18.m.

133-10-17/26

AUTHOR: Palamarchuk, E. M. Engineer.

Wear of Rolls of Continuous Sheet Mills. (Iznos TITIE:

Valkov Neprepyvnykh Listovykh Stanov).

PERIODICAL: Stal', 1957, No.10, pp. 929-933 (USSR).

ABSTRACT: An investigation of the rate and causes of wear of rolls on a continuous hot rolling mill (1680) is described. The instrument used for measuring the wear of rolls is shown in Figure 1. The results of some measurements are shown graphically in Figures 2-4. The influence of hardness of the working roll on the wear of the backup roll was investigated by studying macro and microstructure and changes in the surface of pairs of alloyed and not alloyed rolls withdrawn from service (Figs. 5, 6 and 7). It is concluded that in order to obtain uniform thickness across the width of sheets, the wear of backup rolls should be at a minimum. The wear of backup rolls, caused by mechanical abrasion during slipping of the working roll or "impression" of the surface of the worn roll into the less hard surface of backup roll, depends on the material, structure and hardness of surfaces of rolls in pairs Card 1/2 of working and backup rolls. The roughness of the

KAMAYEV, A.V.; DUBOVSKIY, B.G.; VAVILOV, V.V.; POPOV, G.A.; PALAMARCHUK, Yu.D.; IVANOV, S.P.

[Experimental study of the effects of interaction of two subcritical reactors] Eksperimental noe izuchenie effektov vzaimodeistviia dvukh podkriticheskikh reaktorov. Moskva, Glav. upr. po ispol zovaniiu atomnoi energii, 1960. 10 p. (MIRA 17:1)

DUBOVSKIY, B.G.; KAMAYEV, A.V.; VLADYKOV, G.M.; KUZNETSOV, F.M.; NOZIK, V.Z.; PALAMARCHUK, Yu.D.; POPOV, G.A.; VAVILOV, V.V.

Interaction in subcritical reactors. Atom. energ. 16 no.1:16-20 Ja '64. (MIRA 17:2)

L 41357-65 EKM(j)/EWI(m)/EPF(c)/EPF(n)-2/EPR/EWP(t)/EWP(b) Pr-4/Ps-4/Pu-4

114.6) JD/MM/JG

AUTHOR: Dubovskiy, B. G.; Kamayov, A. V.; Kuznetsov, F. H.; Vlady\*kov, G. H.;

Popov, G. A.; Palamarchuk, Yu. D.

TITLE: Critical parameters of aqueous salt solutions wo (NO)

50170E: Atomnaya energiya, v. 16, no. 1, 1964, 21-25

TOPIC TAGS: nuclear reactor, reactor core, critical mass, ne u t r o n multiplication, noutron absorption, neutron moderation, cylindrical reactor, aqueous salt solution

ABSTRACT: Experiments designed to determine the critical volumes of aqueous salt solutions  $\mathfrak{W}_2(\log_3)_2$  with 90% enriched uranium were made for reactors in the shape of spheres, cylinders and rectangular parallelepipeds, with and without water reflectors. Uranium concentration in aqueous salt solutions varies from 36 to 460  $\mathfrak{g}/l$ , which corresponds to a change in the ratio of hydrogen nuclei  $\rho_H$  to nuclei of U235 from 780 to 50. In the case of the spherical reactor, the critical mass and critical volume were also determined through correlation of the geometric parameters of the cylindrical and rectangular-parallelepiped reactors with those

Cord 1/2

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L 41357-65 ACCESSION NR: AP4012261

of a spherical reactor. This method gives results with an accuracy of  $\pm 10\%$  for solutions with water reflectors and  $\pm 5\%$  for solutions without reflectors. The effect of the steel bottom of the parallelepiped on the critical height of the solution in the presence of a water-reflector was studied by changing the thickness of the steel between the core and water reflector from 3 to 47 mm. It is pointed out, in conclusion, that the results of the critical experiments can be used to determine the critical parameters of reactor cores in the shape of spheres, cylinders, and rectangular parallelepipeds containing aqueous water solutions of  $1002(1003)_2$ . The minimum critical parameters of the aqueous solutions of the  $1002(1003)_2$  salt, obtained by transformation of the geometrical parameters have the following values: critical volume, 8.4 liters; critical mass of U235, 0.85 kg; diameter of the infinite cylinder, 16.7 cm; thickness of the infinite plate, 6.9 cm. Orig. art. hass 6 figures, 5 formulas, 1 table.

ASSOCIATION: none SUBMITTED: 17Nov62

ENCL: 00

SUB CODE: NP

NO REF SOV: 004

OTHER: 001

Cord 2/2

	ENT(m)/EPF(c)/EPF(n)-2/ENG(m)/EPR	0089/64/016/001/001	8/0020
	KK: AF4012200		
UTHOR: Du	bovskiy, B. G.; Kamayev, A. V.;	Vlady*kov G, M, Kt	v. V.
M.; Nozik	V. Z.; Palamarchuk, Yu. D.; P.	ODOY, U. A., Vallant	34
TILE: Inte	raction of subcritical reactors	<b>q</b> :	33
	,	( 64. 16-20	りり
OURCE: Ato	mnaya energiya, v. 16, no. 1, 196		_
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stimation is	used to provide a safety margin A	quivalent size has bee	n developed
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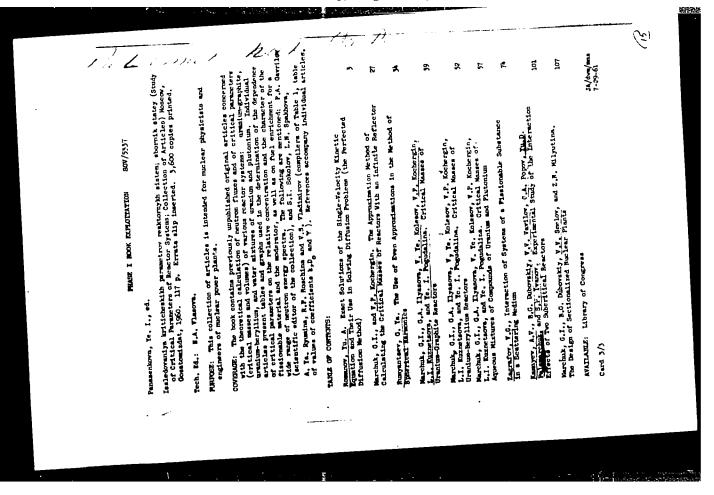
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ASSOCIATION: None	<u>.</u> .	ENCL: 001
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SUB CODE: NP	NR REF SOV: 002	<b>0.1</b>
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DUBOVSKIY, B.G.; KAMAYEV, A.V.; KUZNETSOV, F.M.; VLADYKOV, G.M.; POPOV, G.A.; PALAMARCHUK, Yu.D.

Critical parameters of aqueous solutions of UO2(NO3)2. Atom. energ. (MIRA 17:2) 16 no.1:21-25 Ja '64.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001238

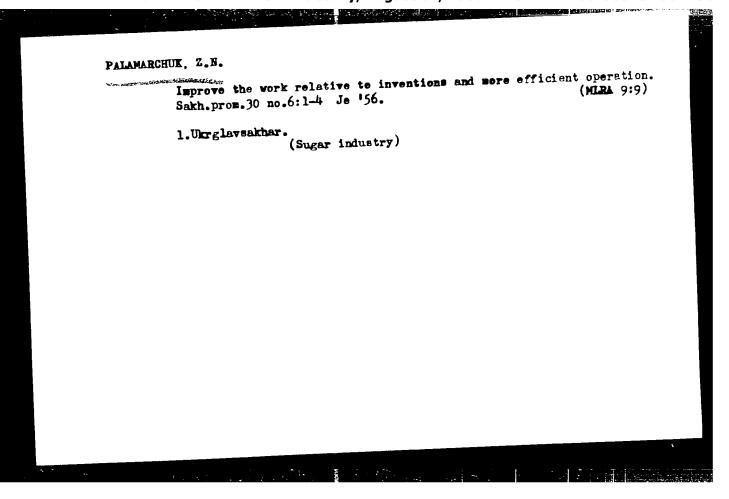


APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012388

,	1 64736-65 ENT(m)/EPF(c)/EPF(n)-2/EWG(m) HM/DM  UR/0089/65/019/001/0018/0019 39  ACCESSION UR: AP5019803 621.039.520.22
	B. G.; Kanayev, A. V.; Sviridento, Va Anti-
•	BOURCE: Atomaya energiya, v. 19, no. 1, 1965, 14-19  BOURCE: Atomaya energiya, v. 19, no. 1, 1965, 14-19
	ABSTRACT: The authors investigated the effect of various absorbers on the target series and the experiments were of the critical mass of homogeneous uranium-water reactors. The experiments were of the critical mass of homogeneous uranium-water reactors provided with bottom and both with reactors having no reflectors and with reactors adjusted to the core was an aqueous solutional provided the core was an aqueous solutions.
	stainless steel. The absorbing rods were made of posterior also cled in stainless stainless steel, or else of water-filled cadmium tubing also cled in stainless in the change in the ch
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theory. The difference between master of rods in the group the safety of the reactor. tributes to the rod efficientables.	ta are compared with the een the results is on the increases the critical value.	or a set of plots and tables, a values calculated by the two-grade order of log. Increasing the volume and thus contributes to	Londo
ASSOCIATION: none			
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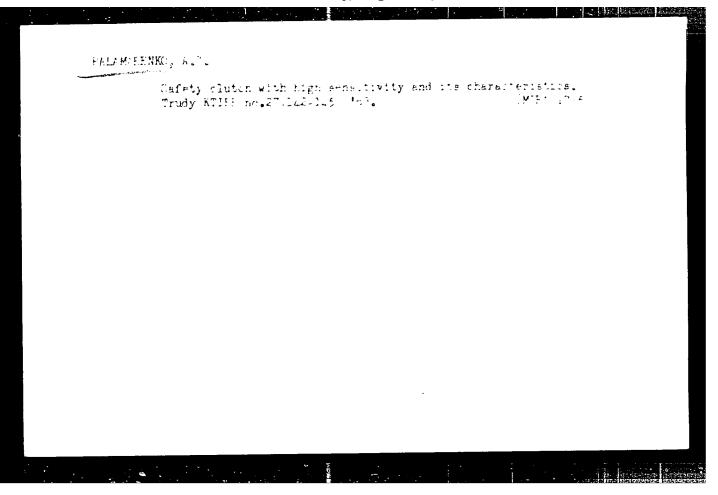


# Palamarchuk, Z.N. Bucket-type unloader designed by W.K.Udalov. Sakh.pron. 30 no.1: 19 Ja '56. 1.Glavsakhar. (Sugar industry--Equipment and supplies)

# PALAMARENKO, A.Z., inzh.

High sensitivity safety clutch. Izv.vys.ucheb.zav.; tekh.leg.prom. (MIRA 16:3) no.1:168-172 163.

l. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
Rekomendovana kafedroy detaley mashin i pod"yemno-transportnykh mashin.
(Food machinery—Safety appliances)



PALAMARENKO, A.Z., assistent Ga\_culating engineer N.D. Verner's multiplate clutch. Izv. vys. ucheb. (MIRA 18:10) zav.; mashinostr. no.8:78-82 '65.

PALAMARENKO, Aleksandr Zekharovich; TANCHAROVA, V., red.;
POSMETUKHIN, N., tekhn. red.

[Safety measures in bench work] Tekhnika bezopasnosti pri slesarnykh rabotakh. Kiev, Gos. izd-vo izd-vo tekhn. lit-ry USSR, 1961. 90 p. (MIRA 15:4) (Machine-shop practice—Safety measures)

Q

COUNTRY

USSR.

CATEGORY

: Farm Animals.

ABS. JOUR.

The Swine. RZhBiol., No. 3, 1959, No. 12061

AUTHOR

: Balashov, N. T.; Lalamarenko, I. K.

INST.

: Askaniya-Nova Ukranian Scientific Research"

TITLE

: The Interspecies Crossing of Figs.

ORIG. PUB.

Tr. Ukrainsk. n.-i. in-ta zhivotnovodstva, "Askania-Nova", 1957, ó, 98-104

ABSTRACT

An experiment on fattening which was carried out on a small number of heads at the Chervonyy sovkhoz in Zaporozhskaya oblast' showed that hybrids which were obtained by crossing Bows of the Ukranian Steppe white breed with boars of the Mirgorodskaya breed surpassed curebred animals when fattening was discontinued by 11.3 percent to live weight, by 4.5 percent in lard yield of carcasses, while by comparison to hybrids of the Ukranian Steipe white breed and the large white breed

Card:

1/2 \*Institute of Animal Husbandry.

CHEBOTAY N. F., TAL MARENKO, I. K.

Pumpkin

Pumpkin is a valuable feed crop. Sots. zhiv. 14 no. 6, 1952.

Monthly List of Russian Accessions, Library of Congress,

2 August 195 Unclassified.

BAIASHOV, M.T., kand.sel'skokhoz.nauk; PALAMARENKO, I.K., kand.sel'skokhoz.

nauk; SAVCHENKO, P.Yu., kand.biolog.nauk; LUZHKOV, M.O., nauchnyy sotrudnik

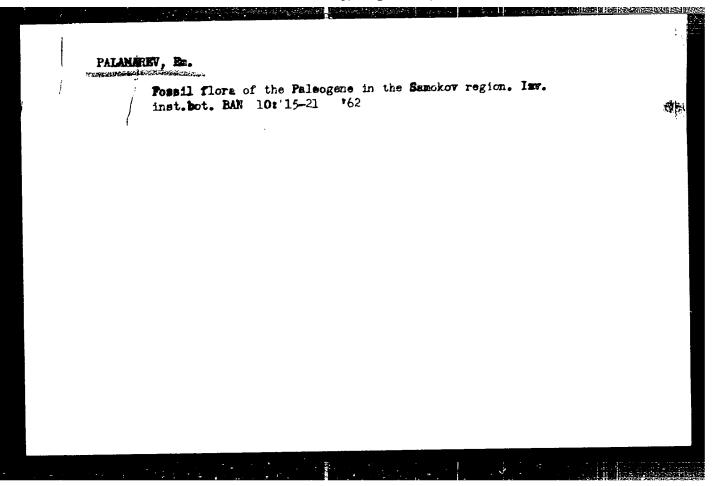
Comparative studies on some biological characteristics of hybrid

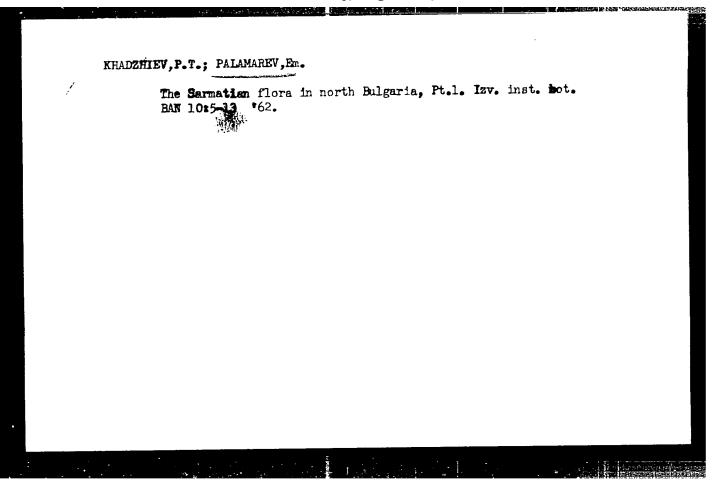
swine. Nauk.pratsi "Ask.-Nov." 9:3-9 '61. (MIRA 15:3)

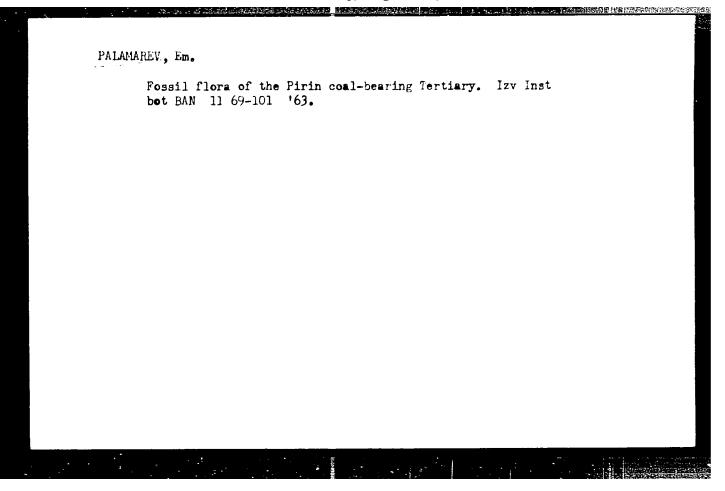
(Swine breeding)

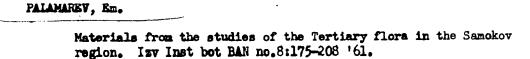
KITANOV, B.; PALAMAREV, Em.

The Eocene Charophyta from the Khadzhi Dimitur coal mine, Sliven region. Godishnik biol 56 no.1:1-10 '61-'62 [publ. '63].









# PALAMAREV, Emanuil

Rare and interesting plants in the Bulgarian flora. Prir i znamia 15 no.7:15-18 S '62.

# PALAMAREV, Emanuil

Paleobotanical studies of the Chukurovo Coal Basin. Izv Inst bot BAN 13:5-80 '64.

Some new data on the fossil flora of the Pirin coal-bearing Tertiary. Ibid.:129-148

PETROV, Slavcho; PALAMAREV, Emanuil

Paleobotany in a textbook on paleontology. Izv Inst bot BAN
13:155-159 '64.

# PALAMAREV, Emanuil

Visible remnants of a disappeared plant world. Prir i znanie 13 no.3:12-16 Mr '60. (EEAI 9:10) (Paleobotany)

# PALAMARU, E.

"Constructions for silage."

p. 14 (Drumul Belsugului) No. 7, July 1957 Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

RUMANIA

PALAMARU, E., Dr and HURNOIU, M., Dr, of the Zootechnical Research Institute (Institutul de Cercetari Zootehnice).

"The Use of Corn Cobs and Stalks Together with Molasses and Urea in the Fattening of Cattle."

Eucharest, Revista de Zootehnie si Medicina Veterinara, Vol 13, No 10, Oct 63, pp 5-12.

Abstract [Authors' English summary modified]: Good results were totained with a mixture of 6 to 8 kilograms of corn cobs and stalks (beaten and ground) with 2 to 2.5 kilogram of molasses and 100 to 165 gram of urea per adult head of cattle (80 to 125 gram per calf) together with small quantities of silage, hay and concentral :. Once the animals were used to the diet, the audition of help and concentrates was no longer necessary. Another economic method of using corn stalks is to silo them together with molasses (2 percent of the weight of the stalks) and urea (0.5 percent of the weight of the stalks).

Includes 3 tables.

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9.3270 (1640/159)

AUTHOR:

Palamaryuk, G. O.

TITLE:

Design of a phase-sensitive electronic demodulator

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Priborostro-

yeniye, v. 4, no. 6, 1961, 10-16

TEXT: The operation of the electronic demodulator is analyzed theoretically, special attention being paid to the questions of load and drift. A typical circuit diagram is shown in Fig. 1. With reference to this figure, two cases are considered depending on the waveshape of the driving voltage  $U_1$ ; a)  $U_1$  is a square wave and, b) sinusoidal wave: Case a: with the output filter disconnected, the magnitude of the rectangular pulse output (i.e the voltage  $U_1$  at the point d) for a symmetrical demodulator ( $R_1 = R_2 = R_1 = R_2 = R_1 = R_2 = R_2 = R_3 = R_1 = R_2 = R_2 = R_2 = R_3 = R_3 = R_4 = R_3 = R_4 = R_5 = R_1 = R_2 = R_2 = R_3 = R_4 = R_3 = R_4 = R_5 = R_4 = R_5 = R_4 = R_5 = R$ 

Card 1/ 6:

S/146/61/004/006/002/020 D249/D301

Design of a phase-sensitive ...

$$U_{D} = \frac{\sum_{i=1}^{1=n} \frac{U_{0i}}{R_{i}}}{\sum_{i=1}^{1} \frac{1}{R_{i}}}$$

(2)

By substituting into Eq. (2), one gets  $U_D = \frac{U_O}{4}$ . The effect of the addition of the output filter is to decrease  $U_D$  by an amount which corresponds to the potential divider ratio formed by the combined impedances on each side of point d. Therefore, the output voltage is  $U_{out} = U_o \times \eta$ , where

Card 2/6

0

**在一种工作的现在分词,在1500年的** 

32964 S/146/61/004/006/002/020 D249/D301

Design of a phase-sensitive ...

$$\eta = \frac{1}{4} \left( \frac{R_0^2}{\frac{R_0}{2} + \frac{R_0}{4} + R_H + R_{\Phi}}{\frac{1}{4} + R_H + R_{\Phi}} \right)^2$$

where  $\gamma$  = transmission factor; K = 0.5 = space factor;  $\gamma$  =  $\frac{R_{I}}{R_{I}}$  = load factor;  $R_{I}$  = internal resistance of demodulator. Case to with a sinusoidal driving voltage the shape of  $U_{D}$  is no longer a single rectangle as it was in the case a), but is now composed at fectively of three rectangles. Therefore, the output voltage has three components each of which can be considered separately in manner similar to that used in Case a). The transmission coefficient is

Card 3/6.

Design of a phase-sensitive ...

S/146/61/004/006/002/020 D249/D301

4

From the plot of  $\gamma$  against  $U_m^{'}$  and  $U_m^{''}$  it is found that the second term in Eq. (18) becomes negligible for  $U_m^{'}=U_m^{''}>60$  V. In a first tical demodulator there is invariably a certain amount of asymmetry which is caused by the tolerance values of the components and which is responsible for producing the drift voltage. Denoting by  $F_{min}$  the maximum possible degree of asymmetry  $(F_{max}-f(R_i,...,R_n))$ , the steady and alternating components of the drift voltage are given by expressions

Card 4/6.

APPROVED FOR RELEASE: Tuesday, August 01, 2000

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32964 S/146/61/004/006/002/020 D249/D301

Design of a phase-sensitive ...

$$U_{D} = \frac{U_{m}}{\mathcal{V}} F_{max} \frac{R_{H}}{R_{H} + R_{out,ten} + R_{\Phi}} \cdot \frac{2}{1 + \mathcal{V}}$$
 (24)

and

$$U_{p} = \frac{1}{2} U_{m} F_{max} \frac{1}{\omega c(R_{0} + B_{ut.ten})}$$
 (26)

This article was recommended by the Kafedra vychislitel'noy tekhniki (Department of Computer Techniques). There are 5 figures, 1 table and 4 Soviet-bloc references.

ASSOCIATION: Ryazanskiy radiotekhnicheskiy institut (Ryazan Ra-

diotechnical Institute)

SUBMITTED: February 27, 1961

Card 5/6.

L 8580465 EST (6)/ESD-2 Po-4/Ro-4/Po-4/Po-4, LIP(6)/NFETS/SED/ASD (6)-5/NFN (4)
APHD (p)/AFTG (p)/ESD/ASD (6)/AFTG (b)/ESD (c)/ESD (dp)/NARM(t)
ACCESS 10M NR: AT4046532
S/2976/64/000/004/0227/0241

AUTHOR: Palamaryuk, G. O.

TITLE: Pulse-frequency dividing device 05

SOURCE: Mascow. Vykssheye tekhnicheskoye uchilishche. Vykchisi|telinaya tekhnika; no. 4, 1964, 227-241

TOPIC TAGS: computer, analog computer, divider, pulse frequency divider, divider accuracy, frequency converter

ABSTRACT: The article describes the structural principles underlying the design of a divider of the pulse-frequency type. An analysis of the unit is given from the point of view of its various accuracy characteristics (theoretical and circuit the point of view of its various accuracy characteristics (theoretical and circuit accuracy), and the results of an experimental verification of its operation are accuracy), and the results of an experimental verification of two unbalanced trigger.

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2 8589-65 ACCESSION NR: AT4046532			
mathematical values, express 2. In a particular case, we voltage, the model solves for the pulse-typical be reproduced. 4. The 5. The range of input free F2 held constant, the model table, 6 figures and 43	men one of the type 2 melations of the type 2 melatically unlike the type 2 melatically unlike 2 me	x·y'. 3. With y functions of high-princision limited. 6 Williams converties.	a load factor il relations on systems; th frequency orig. art. bass
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L 8590-65 'BYT(d)/KED-2 PC-L/Pg-L/P =L/Pk-L LJP(c)/ASD(a)=;/AFTC(p)/AFNL/BSD/ SSD/AFETR/AFMD(p)/ASD(d)/AFTC(b)/ESD(d)/RAEN(t) BB/GG ACCESSION NR: AT4046533 : 5/2976/64/000/014/0242/0251

AUTHOR: Palamaryuk, G. O.

TITLE: Analog multiplying-dividing device of the pulse-frequency type

Sounce: Roscow. Pyrasheye tekhnicheskoye uchlishche. Vykchislitelinaya tekhnika, no. 4, 1964, 242-251

TOPIC TAGS: computer, analog computer, multiplier, divider, pulse frequency computer, multiplier accuracy

ABSTRACT: A pulse-frequency multiplying-dividing device with intermediate information conversion is described in the article, along with an analysis of the accuracy and the results of an experimental trial of the instrument. This article is a logical continuation of the preceding paper in this collection, by the same writer. In that article, the author demonstrated how a dividing unit of the pulse-er: In that article, the author demonstrated how a dividing unit of the pulse-frequency type can provide the basis for the design of a number of mathematical models. In a particular case, with the pulse-frequency dividing unit connected to a circuit of forward and reverse transmission of a system (a DC amplifier with a controlled-frequency generator) with deep negative feedback; a functional mechanism is formed which, under specific conditions, will reproduce the operation of multiplication. In the present paper; the author shows how this is accomplished. An cord 1/2

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ACCESSION NR: AT4046533

Interesting feature of the author's accuracy analysis of the model is his separate consideration of the theoretical error, the structural error and the circuit error, with pertinent mathematical expressions derived in each case. In terms of its principle of operation, the device considered in this article is a pulse servo system with variable parameters. The law governing the change of one of the parameters (the feedback circuit element) is unknown. The practical absence of a transient process in the device is explained and an analysis is made of the operational speed of the model. The accuracy analysis of the operation of the multiplying-dividing device which is discussed in the article indicates that its sunstatic error is not in excess of a few hundredths of a percentage point; that is, the model is one of a class of high-precision, practically inertia-free devices, with a broad range of variation with respect to input and output arguments. The system is, moreover, insensitive to feed voltage fluctuations, and under certain conditions described in the paper provides the possibility of simulating functional relationships. Orig. art. has: 2 tables, 3 figures and 27 formulas.

ASSOCIATION: Hoskovskoya vy\*ssheye tekhnicheskoye uchlilshche (Moscow School of Higher Technical Education)

SUBMITTED: 00

ENCL: 00

SUB CODE: DP

Card 2/2

NO REF SOV: 002

OTHER: 000

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012388

RVACHEY, V.P.; PALAMARYUK, V.Ye.

Calculation of the quantum yield of photosynthesis. Fiziol. rast. 12 no.28371-374 Mr-Ap 165. (MIRA 18:6)

1. Chernovitskiy, gosudarstvennyy universitet.

### PALAMETA, B.; PROSTENIK, M.

On the erythro and three-2,3-dihydroxytetracosanoic acids. Croat chem acta 32 no.4:177-182 '60. (EEAI 10:9)

1. Department of Biochemistry, Institute "Ruder Boskovic", Zagreb, Croatia, Yugoslavia.

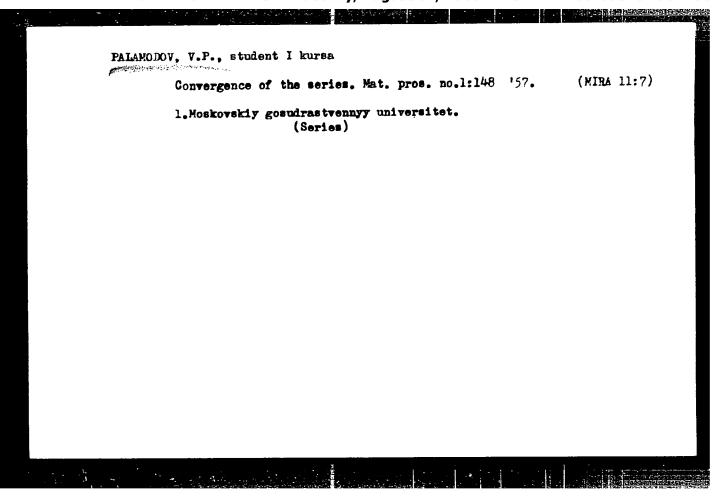
(Browination) (Oxidation) (Acids) (Configuration)

PALAMETA, B. (Zagreb); PROSTENIK, M. (Zagreb)

Chromatography of the lipide bases on paper impregnated with cilicic acid. Groat chem acta 33 no.3:133-135 '61.

1. Department of Biochemistry, Institute "Ruder Boskovic," Zagreb, Croatia, Yugoslavia.

# Once more on the convergence of the series 1+ 1 (MIRA 11:9) Mat. pros. no.3:182 '58. (Convergence)



sov/44-58-4-3003

Translation from: Referativnyy zhurnal, Matematika, 1958, Nr 4,

p 84 (USSR)

AUTHOR: Palamodov, V.P.

TITLE: On Polynomials Which Generate a Recurring Sequence of

the Second Order (O mnogochlenakh, obrazuyushchikh

vozvratnuju posledovatel'nost' 2-go poryadka)

PERIODICAL: Matem. prosveshcheniye, Nr 1, 1957, pp 139-147

ABSTRACT: Bibliographic entry.

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AUTHOR: Palamodov, V. P.

TITLE: Regularization and the Problem of Division

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No 2, pp. 295-298

TEXT: The author uses the notations of J M. Gel'fand and G Ye Smilov (Ref.2). The spaces D and G introduced by L. Schwartz (Ref.3) are especially denoted with K and S. The problem of division (Ref.3) consists in the question of the solubility of the equation

(1)  $FU = T, T \in K'$ 

in the space K', where F is a given function which is infinitely often differentiable.

Theorem 1: (1) is soluble in K' if and only if for every n there exists a regularization of the function  $\frac{1}{(FF)^n}$  which satisfies the condition

$$(2) \qquad (\mathbf{F}\mathbf{\bar{F}})^{n} \left[ \frac{1}{(\mathbf{F}\mathbf{\bar{F}})^{n}} \right] = 1$$

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Regularization and the Problem of Division Theorem 2: Let the function p have the form

(3) 
$$p = p(y_1, x_1, ..., x_n) = y^m + p_1(x_1, ..., x_n) y^{m-1} + .... + p_m(x_1, ..., x_n)$$

It exists a regularization of  $\begin{subarray}{l} P \begin{subarray}{l} which satisfies (?), if there is a regularization of <math>\begin{subarray}{l} P \begin{subarray}{l} P \beg$ 

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Regularization and the Probelm of Division

 $\frac{1}{11} | \lambda_{+}^{+}(x) - \lambda_{+}^{+}(x) | \leq C^{d}(x) | \left( \frac{1}{11} | \lambda_{+}^{+}(x) - \lambda_{+}^{+}(x) | \leq C^{d}(x) \right);$ 

in which the product is extended over all roots  $y_{-}(x)$  ( $y_{-}^{+}(x)$  for which Im  $y_{-}(x) \leq 0$  (Im  $y_{-}^{+}(x) \leq 0$ ), holds for all q > 0 and some C > 0, then 1/p is not regularizable over K. Theorem 5: If the roots of p, which has the form (3), satisfy the

condition: either Im  $y_i(x) \equiv 0$  or  $|\text{Im } y_i(x)| > 0$ , then the division through p is possible.

Theorem 6: Independently from the behavior of the roots of p the division through p over the space  $S^{4}$  is possible, if 3.5 1where  $\beta_1$  is the index corresponding to y.

Six further theoremsdeal with the application of these results to some differential- and integral equations. The author thanks G Ye Shilov for the guidance.

There are 9 references: 2 Soviet, 3 French, 1 Swedish, 1 Dutch and 1 German.

ASSOCIATION: Moskovskiy gosudárstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M. V Lomonosov)

PRESENTED: January 15, 1960, by P. S. Aleksandrov, Academician SUBMITTED: January 8, 1960 Card 3/3

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14.2600 AUTHOR:

Palamodov, V.P. (Moscow)

TITLE:

On canonical regularization of functions with non-integrable singularities

PERIODICAL: Matematicheskiy sbornik, vol.53, no.3, 1961, 353-366

TEXT: I.M.Gel'fand and G.Ye.Shilov (Ref.1: Obobshchennyye funktsii i deystviya nad nimi [Generalized functions and operations with them], Moskva, Fizmatgiz, 1958) solved the problem of the canonical regularization for functions of one variable. The author solves the problem for functions

$$\frac{\frac{h(y,x_1,\ldots,x_n)}{m}}{\prod_{i=1}^{m} [y-y_i(x_1,\ldots,x_n)]},$$

where h is infinitely often differentiable with respect to y and increases together with the derivatives with respect to y at most potentially while the  $y_i$  are continuous, increase at most potentially and satisfy the conditions Card 1/7

(1)

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On canonical regularization ...

1)  $|\mathbf{y}_1 \leq |\mathbf{y}_2 \leq \ldots \leq |\mathbf{y}_k| \leq 0 \leq |\mathbf{y}_{k+1}| \leq \ldots \leq |\mathbf{y}_m|$ where k does not depend on  $|\mathbf{x}_1|, \ldots, |\mathbf{x}_n|, 0 \leq k \leq m$ , 2)  $|\mathbf{y}_k - \mathbf{y}_{k+1}| \geq C(1 + |\mathbf{x}|)^{d}$ 

for a certain <, c>0 and all  $x_4$ .

Let  $s_y$  be the space of functions  $\psi(x,y)$  given in the x,y-plane, infinitely often differentiable with respect to y, and for which for all n the right-hand side of  $s_x$ 

 $\|\varphi\|_{n} = \sup_{1 \leq i, j, k \leq n} (1+y^{2})^{i} \int_{\infty}^{\infty} (1+x^{2})^{j} \left| \frac{\partial^{k} \varphi(x,y)}{\partial y^{k}} \right| dx$ 

is finite. Let  $MS_y$  be the space of functions h(x,y) which all have derivatives with respect to y and do not increase quicker than powers of (|x|+|y|).

Let  $p(y,x) = y^n + p_1(x)y^{n-1} + \dots + p_n(x)$ , where  $p_1(x)$  are continuous, at most Card 2/7

On canonical regularization ...

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potentially increasing functions so that there exists a decomposition

$$p(y,x) = \bigcap_{i=1}^{n} [y-y_i(x)],$$
 where  $y_i(x)$  are also continuous and increase at

most potentially. The  $y_i(x)$  are called roots of p(y,x).

Definition: p(y,x) belongs to the class  $G_y$  if its roots can be subdivided into two groups

$$y_1^+, y_2^+, \dots, y_m^+; \quad y_{m+1}^-, y_{m+2}^-, \dots, y_n^-$$

so that for all x:

1) 
$$Iy_{i}^{+}(x) \ge 0$$
 (i=1,2,...,m)  $Iy_{i}^{-}(x) \le 0$  (i=m+1,...,n)

2) 
$$|y_1^+(x)-y_j^-(x)| > C(1+|x|)^{\alpha}$$
 for certain  $\alpha$ ,  $c > 0$ .

The author considers the function

$$P_{n+1}(y, x) = \frac{y^n \ln y}{n!} [y - y_1, y - y_2, \dots, y - y_n] = \dots$$

$$=\frac{1}{n!}\sum_{i=1}^{n}\frac{(y-y_i)^n\ln(y-y_i)}{(y_i-y_i)\dots(y_i-y_i)\dots(y_i-y_n)}=\frac{1}{n!}\sum_{i=1}^{n}\frac{(y-y_i)^n\ln(y-y_i)}{A_i},$$
 (2)

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