

ULEZKO, Yu.S.; SEREBRYAKOV, I.U.; GROMOV, P.A.

Bucket for scraper equipment. Gor.zhur. no.10:76 0 '64.

(MIRA 18:1)

MINGALEV, Yu.A.; ULEZKO, Yu.S.; ZININ, V.S.

Remote control of scraper winches. Trudy Unipromedi no.2:163-173
'57. (MIRA 11:11)
(Mining machinery) (Winches) (Remote control)

ULZKO, Yu. S.

Vacuum apparatus for sump hole cleaning. Biul. TSIIN tsvet. net.
no. 7:6-7 '58. (MIRA 11:7)
(Vacuum apparatus)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001857920001-8

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001857920001-8"

79-28-5-33/69

AUTHORS: Arbuzova, I. A., Ushakov, S. N., Plotkina, S. A., Yefremova, V. N., Ulezlo, I. K.

TITLE: On the Conversion Reactions of Methylolmetacrylamide (O reaktsiyakh prevrashcheniya metilolmetakrilamida)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 5, pp. 1266 - 1269 (USSR)

ABSTRACT: In carrying out one of the experiments for the synthesis of methylolmetacrylamide according to Feuer, Lynch (Fayer i Linch) (Reference 1) the authors separated, besides this compound, also a product with the melting point $80.5 - 81.5^{\circ}\text{C}$ which, until now, has not been identified as dimetacrylamido-dimethylether. Many experiments to isolate this product from the mixture of final products of the above synthesis did not succeed, which also was the reason for investigating the conversion reaction of methylolmetacrylamide more in detail. The experiments to realize the dimetacrylamidodimethylether by conversion of the methylolmetacrylamide with benzoylchloride

Card 1/3

On the Conversion Reactions of Methylolmetacrylamide

79-28-5-33/69

in alkaline medium according to Zigeuner (Tsigeuner) (Reference 3) did not succeed. Being of the opinion that the ether would have to form as a final product in the synthesis of methylenediacrylamide in the presence of acidous catalysts the behaviour of methylolmetacrylamide in the presence of acidous catalysts was investigated. On heating of the latter with a small amount of hydrochloric acid it could be converted into the dimetacrylamidodimethylether. In the case of increased concentration this ether was converted to the already known methylenediacrylamide (see reaction scheme). According to the data by Fauer and Lynch, the methylolmetacrylamide polymerizes on heating in the presence of mineral acids and boron chloride (BCl_3) with formation of unmeltable and insoluble polymers, which fact indicates a three-dimensional structure. The experiments carried out by the authors showed that the methylolmetacrylamide also polymerizes on the action of peroxide stimulaters, in which case polymers of a line or three-dimensional structure can be obtained, depending on the prevailing conditions. In the case of irradiation of this amide with ultraviolet light

Card 2/3

On the Conversion Reactions of Methylolmetacrylamide

79-28-5-33/69

a solid unmelttable polymer results from it. In the masspoly-
merization in the presence of benzoylperoxide a vitreous poly-
mer forms which is insoluble in water and usual organic solvents.
There are 6 references, ^{none} of which are Soviet.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR
(Institute for High-Molecular Compounds, AS USSR)

SUBMITTED: April 29, 1957

Card 3/3

SOV/20-121-4-50/54

AUTHORS:

Krasil'nikov, A. A., Corresponding Member, Academy of Sciences, USSR, Chaylakhyan, M. Kh., Skryabin, G. K., Khokhlova, Yu. M., Ulezlo, I. V., Konstantinova, T. N.

TITLE:

On the Stimulating Effect of Gibberellines of Different Origin (O stimuliruyushchem deystvii gibberellinov razlichnogo proiskhozhdeniya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 4, pp. 755-758 (USSR)

ABSTRACT:

In recent years the gibberellines - new physiologically active substances - have drawn the attention of large circles of botanists and plant growers. They have a great influence on growth and development of plants as well as upon their different physiological manifestations and formation processes (Refs 5, 14). Gibberellines are obtained from the secretions of the fungus Fusarium moniliforme (sexual stage is Gibberella Fujikuroi on rice). At the moment these substances are produced by special institutes in the USA (S. Sh. A.), England (Angliya) and Japan (Yaponiya). Among the substances produced by them the authors investigated most carefully a preparation obtained

Card 1/4

SOV/20-121-4-50/54

On the Stimulating Effect of Gibberellines of Different Origin

from the fungus Fusarium sp. which was isolated from a befallen vine. The fungus grows well on different culture media both in the case of simple synthetic and composed organic media. Its character and formation are briefly described. It differs from the race which is typical for Fusarium meriliforme. Differences are shown on figure 1. Fusarium sp. produced the active substance on the two following media: 1) $MgCO_3$ 0,3 g, NaCl 0,2, KNO_3 1,0 g, $FeSO_4$ 0,001 g, saccharosis 20 g, tap-water 1 liter. 2) (According to Stodola) NH_4Cl 3,0 g, KH_2PO_4 3,0 g, $MgSO_4 \cdot 7H_2O$ 3,0 g, saccharosis (or glucose) 30 g, tap-water 1 liter. The isolation and purification of the active substance was carried out according to Stodola and others (Ref 13). The preparations Nr 1 and 2 were isolated. Nr 1 was more effective in the case of peas, cucumbers, maize, vetches and others than Nr 2 with respect to acceleration of growth and mass increase. The root system is not activated by any other preparation. The results of the main tests show (Figs 1, 2, Table 1) that the above mentioned preparation Nr 1 does not differ from

Card 2/4

SOV/20-121-4-50/54

On the Stimulating Effect of Gibberellines of Different Origin

gibberelline A₃ (by Professor Lang, Los Angeles) with respect to its effect. It was also impossible to find chromatographical differences. Only the chemical identification will prove whether the preparations Nr 1 and 2 are really gibberellines. There are 3 figures, 1 table, and 15 references, 5 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow, State University imeni M. V. Lomonosov)
Institut fiziologii rasteniy im. K. A. Timiryazeva Akademii nauk SSSR (Institute of Plant Physiology imeni A. K. Timiryazev, AS USSR) Institut mikrobiologii Akademii nauk SSSR (Institute of Microbiology, AS USSR)

SUBMITTED: May 13, 1958.

Card 3/4

KOGAN, Leonid M.; ULEZLO, I.V.; SKRYABIN, G.K.; SUVOROV, N.N.;
TORGOV, I.V.

Microbiological transformations of steroids. Report No.2:
Reduction of 17, ~~21~~-dihydroxy-20-keto steroids by means of
Actinomyces albus 3006. Izv.AN SSSR.Otd.khim.nauk no.2:328-
332 F '63. (MIRA 16:4)

1. Institut khimii prirodnykh soyedineniy AN SSSR i Institut
mikrobiologii AN SSSR.

(Steroids--Microbiology)

ULEZLO, I.V.

Cultivation of strain 15 (*Actinomyces griseus*) in fermenters.
Mikrobiologiya 32 no.2:316-318 Mr-Apr '63. (MIRA 17:9)

1. Institut mikrobiologii AN SSSR.

KRASIL'NIKOV, N.A.; YAKUBOV, G.Z.; KHOKHLOVA, Yu.M.; ARTAMONOVA, O.I.;
ULEZLO, I.V.

Study of antibiotics produced by actinomycetes of the violet
group. Mikrobiologiya 32 no.5:748-754 S-0'63 (MIRA 17:2)

1. Institut mikrobiologii AN SSSR.

KOGAN, Leonid.M.; ULEZLO, I.V.; KOZLOVA, I.K.; SUVOROV, N.N.; PORTNOVA, S.L.
SKRYAGIN, G.K.; TROGOV, I.V.

Microbiological transformations of steroids. Report N_o.3: Reduction of 17 α ,21-deoxysteroids by Actinomyces albus 3006. Izv. AN SSSR Ser. khim. no.11:2008-2015 N '64 (MIRA 18:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR i Institut mikrobiologii AN SSSR.

FENIKSOVA, R.V.; RODIONOVA, N.A.; TIUNOVA, N.A.; ULFZLO, I.V.; SAFONOV, V.I.

Study of cellulolytic enzymes of *Myrothecium verrucaria*. Dokl. AN
SSSR 162 no.3:702-704. My '65. (MIRA 18:5)

1. Institut biokhimii im. A.N.Bakha AN SSSR. Submitted August 17, 1964.

KOGAN, Leonid M.; ULEZLO, I.V.; YELIN, E.A.; BARMENKOV, A.S.; SKRYABIN, G.K.;
TORGOV, I.V.

Study of the transformation of steroids with the help of Actinomyces
albus 3006. Izv. AN SSSR. Ser. biol. no.4:581-584 JI-Ag '65.

(MIRA 18:7)

1. Institut khimii prirodnykh soedineniy AN SSSR i Institut mikro-
biologii AN SSSR.

FENIKSOVA, P.V.; ULEZLO, I.V.

Study of the biosynthesis of cellulase by *Myrothecium variegatum*.

Pril. biokhim. i mikrobiol. i no.4:406-413 71-Ag '65.

(MIRA 18:11)

I. Institut biokhimii imeni A.N.Bakha AN SSSR.

KONOVA, I.V.; LISENKOVA, L.L.; KALMYKOVA, G.Ya.; ULEZLO, I.V.

Production of vitamin B₁₂ by means of *Act. olivaceus* on some industrial waste products. *Mikrobiologiya* 33 no.3:528-532 My-Je '64. (MIRA 18:12)

1. Institut mikrobiologii AN SSSR. Submitted May 22, 1963.

L 16574-66 EWT(m)
ACC NR AP6014989

SOURCE CODE: UR/0170/66/010/005/0613/0619

AUTHOR: Ul'faskiy, G. V.

4
B

ORG: none

TITLE: Selection of the mean heat load of the surface of a fuel element of a water-water vapor reactor under pressure

SOURCE: Inzhenerno-fizicheskii zhurnal, v. 10, no. 5, 1966, 613-619

TOPIC TAGS: reactor fuel element, nuclear reactor, thermodynamic analysis

ABSTRACT: The article considers the problem of the choice of the maximum permissible mean heat load for the surface of a fuel element in a water-water vapor reactor under pressure, with cosinusoidal evolution of heat over its height and subcooling at the outlet of the channel $\geq 10^{\circ}\text{C}$. At the present time, to make sure that the heat load at any point over the height of the fuel element does not exceed the corresponding critical heat flux, the maximum heat load is generally taken lower than the minimum critical heat flux. The article shows by mathematical analysis that, in addition to the necessary reserve coefficient, there is a latent reserve which leads to a decrease in the

Card 1/2

UDC: 621.039.5

L 46574-66

ACC NR: AP6014989

6

calculated mean heat load of the surface of the fuel element and, consequently, to an increase in the dimensions of the reactor. To eliminate this latent reserve, it is necessary to determine the heat load at that point on the height of the fuel element at which the reserve coefficient is at a minimum. In this case, we get the maximum possible mean heat load and, consequently, minimum dimensions for the reactor. After an extended mathematical development, the article presents a formula which, it is claimed, allows an increase of approximately 30% in the calculated mean heat load of the surface of the fuel element. Orig. art. has: 23 formulas and 2 figures.

SUB CODE: 18/ SUBM DATE: 27Jul65/ ORIG REF: 004

Card 2/2 *awm*

UL 70KIN, I.G.

SOV/131-58-7-12/14

AUTHOR: Kirsanov, I. P.

TITLE: Conference of the Specialists for Refractories of the Moscow Oblast (Konferentsiya ogneporshchikov moskovskoy oblasti)

PERIODICAL: Ogneupory, 1958, Nr 7, pp: 332 - 334 (USSR)

ABSTRACT: From May 12 - 13, 1958, an administrative and technical conference took place at the Snigirevskiy Works for Refractories. It had been called by the administration of the metallurgical industry as well as by the technical administration of the Oblast Council of National Economy, and it dealt with the exchange of opinions on mechanization in the works for refractories of the Moscow oblast. The conference was attended by outstanding members from the staff of enterprises, engineers, technicians, commercial managers of the works for refractories in the Moscow Oblast as well as by representatives of the works of refractories in the Sverdlovsk, Stalinc, Zaporozh'ye, Novgorod, and Tula oblasts of the scientific research-and planning institutes. 15 reports and communications were heard. The Chief Engineer of the metallurgical administration of the Council of National Economy of Moscow Oblast S.M.Yegorov, opened the conference with a survey of the achievements of the works in the Moscow oblast. He stressed

Card 1/3

Conference of the Specialists for Refractories of SOV/131-58-7-12/14
the Moscow Oblast

the low technical level of these works. Other reports were delivered by:

- 1) V.I. Sokolov and I.G. Ul'fskiy on the mechanization plans, on the automation of production processes, as well as on the modernization of the Leningrad Institute for Refractories.
- 2) K.A. Krasotin, D.S. Rutman and I.A. Suvorov on the modernization and mechanization of the Podol'sk works by its laborers and staff.
- 3) L.V. Vinogradova on highly-refractory products.
- 4) D.M. Poluboyarinov, Professor, Doctor of Technical Sciences, on the oxides of various metals used for the production of refractories.
- 5) M.I. Gurova and M.I. Krivoy on the introduction of new refractories in the Snigirevskiy works.
- 6) M.A. Rabinovich on measures taken for improving the work of the heating aggregates at the Snigirevskiy works.
- 7) T.A. Reyngard on improvements in the Vnukovo works.
- 8) M.F. Shcheglova on rationalization work in the Domodedovo works.
- 9) Z.Ye. Dobrin on experiments at the Borovichi kombinat for refractories.

Card 2/3

Conference of the Specialists for Refractories of the Moscow Oblast SOV/ 131-58-7-12/14

- 10) M.P. Dovnar on the dust removal in the Stalinogorsk works.
 - 11) S.D. Skorokhod on demands set up by the metallurgists of the "Elektrostal" works concerning refractories.
- The participants approved of the measures outlined by the Moscow Oblast Council of National Economy to be taken for a further perfection and an increase of the production of the works in the area. It was recommended to intensify research work.

1. Ceramic materials--USSR
2. Conferences

Card 3/3

UL'FSKIY, I. G.

AUTHOR: Kamenichnyy, M. S.

137-58-6-11/14

TITLE: News in Brief (Kratkiye soobshcheniya).
Production of Ultralight Refractory Products
(Proizvodstvo ultralegkovesnykh ogneporov)

PERIODICAL: Ogneupory, 1958, vol. 1, Nr 6, pp. 284-285 (USSR)

ABSTRACT: In March 1958 a meeting took place at the Snigirevo Works for Refractory Products which had been called by the Department for Refractory Products of the Scientific-Technical Society for Metallurgy, and which was devoted to the problem of the mechanization of the production of ultralight refractory products. More than 60 persons took part in the meeting: representatives of the works for refractory materials, of the Leningrad Institute for Refractory Materials, as well as of other organizations. The following reports were heard:

- 1) Ye. A. Fedorova on the technology of the production of ultralight refractory products.
- 2) I. G. Ul'fskiy on machines for molding and grinding light refractory materials.

Card 1/3

News in Brief.

131. 58.6-11/14

Production of Ultralight Refractory Products

- 3) P. S. Potemkin on the drying and burning of refractory light products.
- 4) M. A. Rabinovich on the experience in the production of refractory light materials at the Snigirevo works.

The isolation properties of these products are 2 - 3 times better than those of the other light refractory products. Experiments at the Leningrad Institute for Refractory Products carried out with ultralight refractory products (weight by volume 0.3 - 0.4 g/cm²) showed that the heat losses decreased by 47 %, the heating period of the kiln by 26 %, and the output per hour increased per 19 %. The production of these products as well as of the usual foamy ones is based on the foaming of water suspensions of clay and chamotte. The mass of the ultralight products contains 80 % of clay and 20 % of chamotte, whereas the mass of the usual light products contains 10 % of clay and 90 % of chamotte. The drying of the ultralight products requires a mild regime and lasts 5 - 6 days. The shrinkage exceeds 15 % which easily causes cracks.

Card 2/3

News in Brief.

131-58 -6-11/4

Production of Ultralight Refractory Products

The burning of ultralight products takes place together with other products in annular kilns. The meeting decided upon recommendations for the mechanization of the molding process and the perfection of drying and burning. A further development of this production was recommended.

1. Refractory materials--Production
2. Industrial plants--Automation
3. Machines--Performance

Card 3/3

LARIN, A.P.; UL'FSKIY, I.G.

Refractories plants of the Czechoslovakian Socialist Republic.
Ogneupory, 26 no.8:386-389 '61. (MIRA 14:9)

1. Vsesoyuznyy institut ogneuporov.
(Czechoslovakia--Refractories industry--Equipment and supplies)

UL'FSKIY, I.G.

Automatic control of the movements of empty kiln cars. *Ogneuporov*
29 no.1:19-21 '64. (MIRA 17:3)

1. Vsesoyuznyy institut ogneuporov.

RABINOVICH, M.A.; GRIGOR'YEV, I.V.; UL'FSKIY, I.G.; EL'MAN, I.A.

Mechanizing the production of ultralightweight products. *Ogneupory*
29 no.7:296-300 '64. (MIRA 18:1)

1. Snigirevskiy zavod ogneuporov (for Rabinovich, Grigor'yev).
2. Vsesoyuznyy institut ogneuporov (for Ul'fskiy, El'man).

KISELEV, P.A.; NIKOLAYEV, V.I.; REGO, S.I.; ULFYAND, Yu.M., professor;
FRIDMAN, S.Ye.

Electromyography as a method for studying the physiological
properties of the motor apparatus in paralysis following polio-
myelitis. Trudy ISGMI 29:176-196 '56. (MIRA 10:9)

1. Fiziologicheskaya laboratoriya Instituta im. Turnera i Kafedra
fiziologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo
instituta, zav. laboratoriyey i kafedroy - prof. Yu.M.Uflyand.

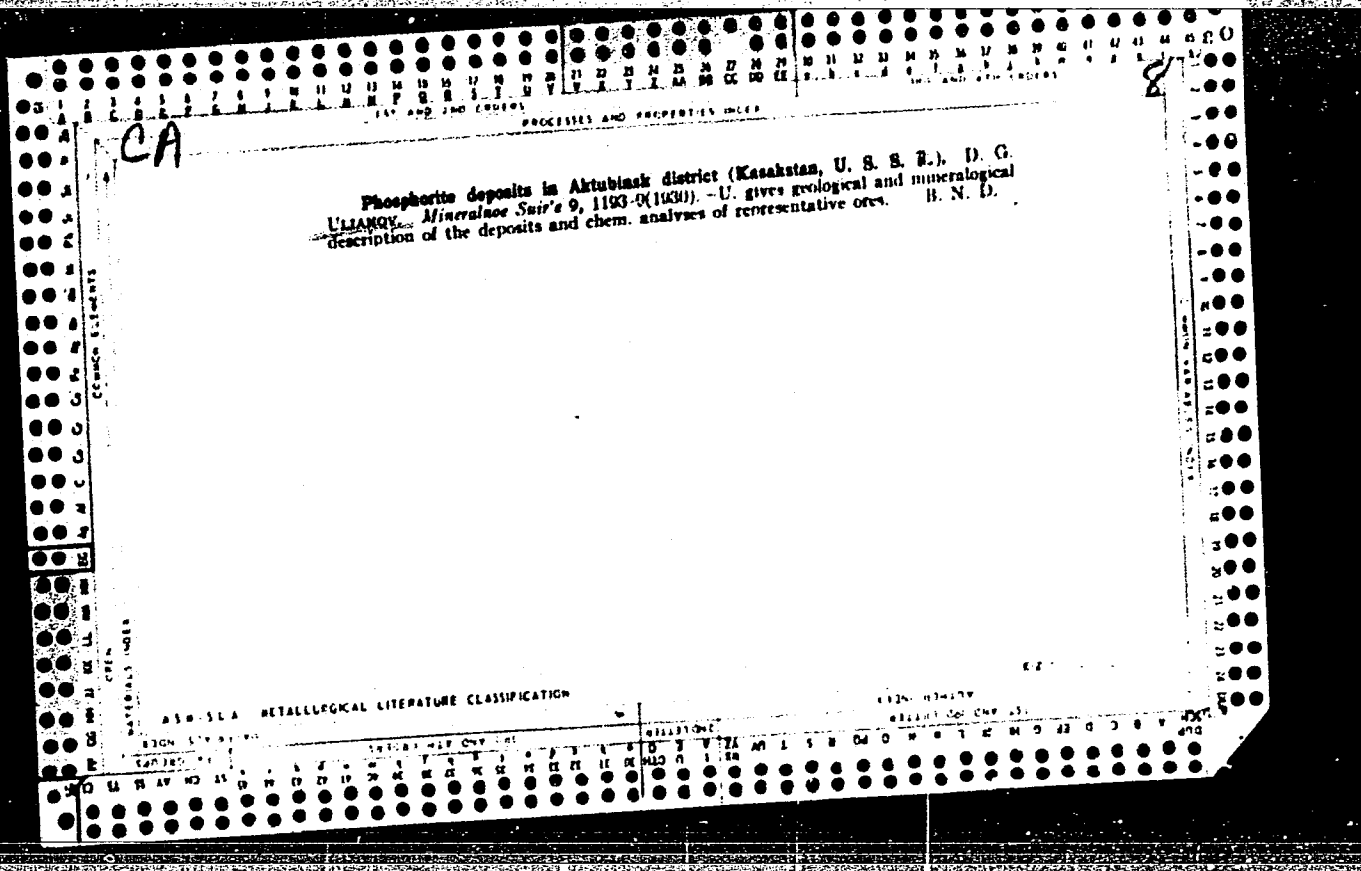
(POLYOMYELITIS, physiology,
electromyography (Rus))

(ELECTROMYOGRAPHY, in various diseases,
polio. (Rus))

ULIAKHIN, N.

Pneumatic transportation of tobacco. Tr. from the Russian. p. 113 (Mechanisace.
Praha. Vol. 2, no. 2/3, Feb. Mar. 1953)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6,
June 1955, Uncl.



ULIANOV, G.

Cooperators are on the stage. p. 36.
North Africa is fighting. p. 38.

Vol. 10, no. 11, Nov. 1955
KOOOPERATIVNO ZEMEDELIE
Sofiya, Bulgaria

So: Eastern European Accession Vol. 5 No. 1 Jan. 1956

1. UL'IANOV, I. A.
2. USSR (600)
4. Coal
7. For the fulfillment of party directives in regard to improvement of the quality of coal, Ugol' 28, no. 2, 1953.

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

ULIANOV, P.

Wages

"Wages of labor and its forms in the Soviet industry." Ye. L. Manevich. Reviewed by P. Ulianov. Vop. ekon. no. 5, May 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS. LIBRARY OF CONGRESS. AUGUST 1952. UNCLASSIFIED.

UL'IANOVA, O. D.

Ul'ianova, O. D. and Tatevskii, V. M. (Chemistry) Spectra of combination dispersion
of α -alkenes. P. 87.

Chair of Physical Chemistry
Dec. 2, 1950

SO: Herald of the Moscow University, Series on Physics-Mathematics and Natural
Sciences, No. 3, Nov 5, 1951

ULIANOVSKI,

Teletransmission methods.

"Elektrichestvo", No. 10, 1950

ULIARCZYK, A., inż.

Use of transducers and transistors on electric locomotives.
El. tech obzor 52 no.5:270-271 My '63.

ULIASZ, J.: FIK, C.: CISK, B.

Prospecting for petroleum and natural gas in the Carpathian Mountains. p.121

Wiadomosci Naftowe. (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Przensysly Naftowego i Zwiazke Zawodowego Gornikow Naftowcon)
Krosno, Poland Vol. 5, no. 6, June 1959

Monthly list of East European Accessions (EEAI) IC, Vol.⁹/no. 2,
Feb. 19~~60~~.

Uncl.

SWIDERSKI, Jan; MARCZEWSKI, Andrzej; ULIASZ, Adolf

Separation and isolation of para- and meta-xylene from crude xylene. Roczniki chemii 36 no.12:1787-1790 '63.

1. Department of Organic Chemistry, Medical Academy, Warsaw.

ULICH, E.; STOSSER, Dorette V.

On changes in the pulse frequency in concentration efforts of brief duration. Arh. za hig. rada 12 no.1:21-35 '61.

1. Psychologisches Institut der Universitat Munchen.
(PULSE) (MENTAL PROCESSES)

ULICHNA, K.O. [Ulychna, K.O.]

Moss synusia of the Bukovinian Carpathians [with summary in
English]. Nauk.zap.Nauk.-pryrod.muz.AN URSS 6:50-72 '58.
(MIRA 12:1)

(Chernovtsy Province--Mosses)

ULICHNYY, Aleksey Petrovich, agronom

Work in cooperation. Zemledelie 26 no.6:91-92 Je '64.
(MIRA 17:8)

1. Kolkhoz imeni Shohorsa Kryzhopol'skogo proizvodstvennogo
upravleniya, Vinnitskoy oblasti.

ULICHKIN, S.I.

Examining the micrometer of the OT-02 telescopic theodolite. Stor.st.
po good.no.10:73-83 '55. (MIRA 10:2)
(Theodolites) (Micrometer)

ULICKY, L.

Distr: 4E2c(j)

45

5
2-may
1

The reasons for rapid hardening of thiokol. A. Tkáč, V. Kellš, and L. Ulický (Slovenská vysoká škola tech., Bratislava, Czech.). *Chem. zvesti* 12, 891-100 (1958) (German summary). --By studying the factors causing a rapid hardening of thiokol (I) of domestic origin (Czech.), it was detd. that the loss of plasticity and elasticity is caused by polymer crystn. The decompn. products of Na₂S₂ formed by thermal reaction or by spontaneous oxidation of S linked to Na₂S₂ accelerate the process of crystn. By prep. I from Na₂S₂ soln. of definitive concn., a product resistant to rapid hardening is formed which by infrared absorption spectral analysis has shown to be different in the amt. of bound H₂O, decompn. products, and oxidation impurities from a rapid hardening tech. pure product. The structural analyses indicate the presence of cyclic bound S which is in agreement with the results of x-ray structural analyses.

7/4

Jan Miska

ULICKY, Ladislav, inz., C.Sc.; DILLINGEROVA, Tamara, promovana
chemicka

Basic crystallographic data on p-bromophenylisothiocyanate. Chem
zvesti 16 no.10:758-761 0 '62.

1. Katedra fyzikalnej chemie, Slovenska vysoka skola technicka,
Bratislava, Kollarovo namesti 2.

ULICKY, Ladislav, inz., C.Sc. (Bratislava, Kollarovo nam. 2, Chemicky pavilon,
Slovenska vysoka skola technicka)

Determining the crystallinity of the thiocol A by the X-ray method.
Chem zvesti 16 no.11:818-828 N '62.

1. Katedra fyzikalnej chemie Slovenskej vysokej skoly technickej,
Bratislava.

ULICKY, Ladislav, inž., (Sc.); DILLINGEROVA, Tamara, promovany chemik

Space group of the symmetry of p-dimethylaminophenylisothiocyanate
and 4-[di-(-chloroethyl) amino] phenylisothiocyanate. Chem
zvesti 17 no.7:493-497 '63.

1. Katedra fyzikalnej chemie, Slovenska vysoka skola technicka,
Bratislava, Kollarovo namesti 2.

ULICKY, L.

"Experiments in physical chemistry" by J.M. Wilson, R.J. Newcombe,
A.R. Denaro, R.M.W. Rickett. Reviewed by L. Ulicky. Chem zvesti
18 no.7:549-550 '64.

ULICKY, L.

"Crystallization of polymers" by L. Mandelkern. Reviewed
by L. Ulicky. Chem zvesti 19 no.4:328-329 '65.

1. Editorial Board Member, "Chemicke zvesti."

ULICNA, M.

Experiences with occupational eczema in the Brno dermatovenerologic center. Prakt. lek., Praha 31 no. 23:515-517 (CJML 21:3)
5 Dec. 1951.

ULICNA-AUTRATOVA, Ludmila, MUDr.

Effect of chloramphenicol on *Candida albicans* and *Achorion schoenleini* in vitro. *Cesk. dermatol.* 31 no.2:87-89 Apr 56.

1. Dermatologicka klinika prof. Dr. Tryba v Brno.

(TRICHOPHYTON,
schoenleini, eff. of chloramphenicol (Cz))

(MONILIA,
albicans, eff. of chloramphenicol (Cz))

(CHLORAMPHENICOL, effects,
on *Monilia albicans* & *Trichophyton schoenleini* (Cz))

JLHCNA-ZAPLETALOVA II

Kuže a mezimozek. /The skin and the diencephalon/ Česk. dom.

25:4 1 Apr 50 p. 150-4

1. Of the Skin Clinic in Brno (Head--Prof. A. Tryb, M. D.).

CHML 19, 5, Nov. 50

ULICHA-ZAPLETALOVA, Milada

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: venero MD

Affiliation: Dermatological Department KUNZ /Krajsky ustav narodniho zdravi;
Kraj Institute of Public Health/ (Dermatovenerologicka oddeleni

Source: KUNZ), Brno; Director: L. HOLCIK, MD
Prague, Prakticky Lekar, Vol 41, No 13, 1961, pp 601-604.

Data: "Epidermomycosis in Foot in the Brno Kraj."

143

DVORACEK, E., inz.; WALLA, J.; ULICNY, F.

Data for calculation of insulators in polluted surroundings.
Energetika Cz 14 no.8:375-378 Ag '64

1. Research Institute of Power Engineering, Brno.

L 36850-66 EWP(k)/EWP(h)/T/EWP(l)/EWP(v) IJP(c) BC

ACC NR: AP6017043

SOURCE CODE: CZ/0041/66/000/001/0107/0120

AUTHORS: Ulicny, Jan--Ulichnyy Ya. (Engineer, Candidate of sciences)

ORG: CSAV--Institute of Mechanics and Automation, SAV, Bratislava. 42
(CSAV--Ustav mechaniky a automatizacie SAV) B

TITLE: Certain methods of dynamic optimization

SOURCE: Strojnický časopis, no. 1, 1966, 107-120

TOPIC TAGS: dynamic programming, computer, dynamic optimization

ABSTRACT: Two methods of dynamic optimization, namely, the method of the dynamic programming and the maximum principle have been compared for advantages and disadvantages and for applicability to the volume of computer computations. The comparison is subject to the assumption that there is only one control system and uniform demand for the speed of the controlled process, that is, the same optimality criterion in both methods of dynamic optimization. The paper was presented by S. Petras, Docent, Engineer, Candidate of Sciences. Orig. art. has: 4 figures and 59 formulas. [Based on authors' abstract] [NT]

SUB CODE:12, 09/SUBM DATE: 20Feb65/ SOV REF: 004/

Card 1/1

ULICNY, M.

Present situation in regard to sprinkler equipment, and the planning and performance of irrigation units.

P. 18. (VODNI HOSPODARSTVI) (Praha, Czechoslovakia) No. 1, Jan. 1958

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

PAVLOV, A.N.; VASILENKO, V.S.; KOLESNIKOV, I.M.; MYALCOVSKAYA, S.A.;
POTAPOVA, Ye.A.; UL'IKHINA, N.P.

Present distribution of giant mole rat in northeastern
Ciscaucasia. Zool. zhur. 42 no.5:777-780 '63. (MIRA 16'7)

1. Rostov-on-Don State Research Anti-Plague Institute and
Daghestan Anti-Plague Station.

(Caucasus, Northern--Mole rat)

ULIKOV, N.I.; SHAROV, V.L.; VOKHANTSEV, M.F.; KORABEL'NIKOV, P.S.;
BOGUSLAVSKAYA, I.S.; STARKOV, Yu.F.; SAMSONOV, B.P.

Conveyer-type drying and impregnating oven. Prom.energ. 15
no.2:19 F '60. (MIRA 13:5)
(Electric motors)

GURFINKEL', M.A.; SOROKIN, S.F.; ULIKOVSKIY, L.G. Prinsipal uchastiye
KUZNETSOV, S.V. D'YACHKOV, V.I., kand.tekhn.nauk, retsenzent;
NIKOLAYEVSKIY, G.M., kand.tekhn.nauk, retsenzent; ZENKOV, R.L.,
doktor tekhn.nauk, red.; SAVEL'YEV, Ye.Ya., red.izd-va;
SOKOLOVA, G.F., tekhn.red.; UVAROVA, A.P., tekhn.red.

[Conveying and loading and unloading machinery used in the chemical
industries] Transportnye i pogruzochno-razgruzochnye mashiny
v khimicheskoi promyshlennosti. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry, 1960. 495 p. (MIRA 13:12)

(Conveying machinery) (Loading and unloading)
(Chemical industries--Equipment and supplies)

ULIN, A. I.

ULIN, I.

Bohater pracy socjalistycznej Pawel Podzharow. Warszawa, Ksiazka i Wiedza, 1950.
55 p. (Biblioteka Przewodnikow Pracy, nr. 45) [Pavel Podzharov, hero of social-
ist labor. Illus.]

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress,
Feb. 1954, Unw1.

ULIN, IVAN.

In the coal region Moskva, Ugletekhizdat, 1950. 110 p. (51-19310)

HD8039.M62R946

MANUKOVSKIY, N.F., Geroy Sotsialisticheskogo Truda, brigadir; LEBEDEVA, A.T., zven'ev. Geroy Sotsialisticheskogo Truda; KOLYADINA, A.A.; GUSEVA, N.F.; GUBANOVA, M.T.; GURENKO, A.G., svinar'; SVIRIDOV, I.G., svinar'; SHERSHOVA, M.V., zootekhnik; GORIN, D.P.; TAMBOVTSEV, P.K.; ULIN, I.; SAYTANIDI, L.D., tekhn. red.

[Leaders of socialist competition from Voronezh tell their stories]
Rasskazyvaiut peredoviki-voronezhtsy. Moskva, Izd-vo M-va sel'khoz.
RSFSR, 1960. 54 p. (MIRA 14:11)

1. Brigada kompleksnoy mekhanizatsii kolkhoza imeni Kirova Voronezhskoy oblasti (for Mamukovskiy).
 2. Kolkhoz "Rossiya" Voronezhskoy oblasti (for Lebedeva, Shershova).
 3. Ryadovyye zvena vysokoy proizvoditel'nosti kolkhoza imeni Stalina Voronezhskoy oblasti (for Kolyadina, Guseva).
 4. Zven'yevaya kolkhoza imeni S.M. Kirova Voronezhskoy oblasti (for Gubanova).
 5. Sovkhoz "Vorob'yevskiy" Voronezhskoy oblasti (for Gurenko).
 6. Sovkhoz "Maslovskiy" Voronezhskoy oblasti (for Sviridov).
 7. Predsedatel' kolkhoza "Podgornoye" Voronezhskoy oblasti (for Gorin).
 8. Direktor sovkhoza "Vtoraya pyatiletka" Voronezhskoy oblasti (for Tambovtsev).
- (Voronezh Province—Stock and stockbreeding)
(Socialist competition)

ULIN, I.I., redaktor

[Experience of schools growing corn; a collection of articles] Opyt
shkol po vyrashchivaniu kukuryzy; sbornik statei. Moskva, Mini-
sterstvo prosveshcheniia BSPSR, 1955. 237 p. (MLRA 9:12)
(Corn (Maize)) (School gardens)

CHURKIN, L.; ULIN, I.I., red.; LEVINA, L.G., tekhn.red.

[Obtaining 1030 centners of corn per hectare] 1030 tsentnerov
kukurusy s gektara. Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1960.
11 p. (MIRA 14:1)

(Corn (Maize))

BUDRINA, R.; ULIN, I.I., red.; LEVINA, L.G., tekhn.red.

[Obtaining 5,000 kilograms of milk per cow] 5000 kilogrammov
moloka ot korovy. Moskva, Izd-vo M-va sel'. khoz.RSFSSR, 1960.
13 p. (MIRA 14:1)

(Dairying)

YEVLAADOV, Boris Vladimirovich; ULIN, I.I., red.; LEVINA, L.G.,
tekhn.red.

[Pavel Rechenkin, leader of a communist labor brigade] Pavel
Pechenkin - vozhak brigady kommunisticheskogo truda. Moskva,
Izd-vo M-va sel'skogo khoz.RSFSR, 1960. 19 p.

(MIRA 14:2)

(Altai Territory--Farm mechanization)

OSIPOV, D.; ULIN, I.I., red.; LEVINA, L.G., tekhn.red.

[Producing one centner of pork in four hours] Tsentner svininy
za 4 chasa. Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1960. 21 p.
(MIRA 14:2)

(Swine)

MINDUBAYEV, Zh.; ULIN, I.I., red.; LEVINA, L.G., tekhn. red.

[Thirty-eight baby rabbits from one mother] 38 krol'chat ot matki.
Moskva, Izd-vo M-va sel'.khoz. RSFSR, 1960. 22 p. (MIRA 14:10)
(Collective farms--Rabbits)

KUSTOV, V.; UL'ZUTUYEV, A.; ULIN, I.I., red.; LEVINA, L.G., tekhn. red.

[Khanda Batomunkueva, a collective farm shepherd] Khanda Batomunkueva. - kol'khoznyi chaban. Moskva, Izd-vo M-va sel'.khoz. RSFSR, 1960. 23 p. (MIRA 14:9)
(Aga Buryat National Area—Sheep)

IVAN'KO, Viktor Daitriyevich; POPLAVSKIY, N.; ULIN, I.I., red.;
LNVINA, L.G., tekhn.red.

[Zalingeri Shogenov, the best milker of the Republic] Zalingeri
Shogenov - luchshii doiar respubliki. Moskva, Izd-vo M-va sel'.
khoz.BSFSR, 1960. 25 p. (MIRA 14:2)
(Dairying)

ULIN, Ivan Il'ich; ZEMLYANOV, I.S., red.; LEVINA, L.G., tekhn. red.

[Orchard growers by birth] Potomstvennye sadovody. Moskva, Izd-vo M-va sel'.khoz. RSFSR, 1960. 46 p. (MIRA 15:6)
(Ryazan Province--Fruit culture)

KOROLEV, A.F.; BALAKIN, V.M., red.; ULIN, I.I., red.; SAYTANIDI, L.D.,
tekh. red.

[New methods in raising swine] Novye priemy soderzhania svinei;
sbornik statei. Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1960. 179 p.
(MIRA 14:12)

(Swine breeding)

GOSTEV, Vasilii Sergeevich; ULIN, I.I., red.; LEVINA, L.G., tekhn.
red.

[Petr Sapunov, master of getting high corn yields] Master vy-
sokikh urozhaev kukuruzy Petr Sapunov. Moskva, Izd-vo K-va
sel'khoz. RSFSR, 1961. 15 p. (MIRA 15:10)
(Corn (Maize))

KOKLYAYEV, Aleksandr Ivanovich, kand.sel'khoz.nauk; KOKLYAYEVA,
Polina Vladimirovna, kand.sel'khoz.nauk; ULIN, I.I., red.;
SAYTANIDI, L.D., tekhn. red.

[Buckwheat is a valuable crop] Grechikha - tsennaia kul'tura.
Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1961. 82 p.
(MIRA 15:7)

(Buckwheat)

KRAVCHUK, A.T., kand.tekhn.nauk; ULIN, I.I., red.; SAYTANIDI, L.D.,
tekhn.red.

[Mechanizer came to the farm] Mekhanizator prishel na fermu;
sbornik statei. Moskva, Izd-vo M-ya sel'.khoz.RSFSR, 1961.
115 p. (MIRA 14:6)
(Stock and stockbreeding) (Farm mechanization)

ULIN, I.I., red.; SAYTANIDI, L.D., tekhn.red.

[Leading agricultural workers talk about their experience; materials of the Conference of Leading Agricultural Workers of the Central Black Earth Region, Voronezh, 1961] Peredoviki sel'skogo khoziaistva o svoem opyte; materialy soveshchaniia peredovikov sel'skogo khoziaistva TSentral'noi chernozemnoi zony v g. Voronezhe. Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1961. 125 p. (MIRA 14:7)

1. Soveshchaniye peredovikov sel'skogo khozyaystva TSentral'noy chernozemnoy zony, Voronezh, 1961.
(Central Black Earth Region--Agriculture)

GLUSHKOV, Nikolay Mikhaylovich; ROZOV, Sergey Alekseyevich; JULIN,
I.I., red.; KHOLIN, G.Ye., red.; SAYTANIDI, L.D., tekhn.
red.

[Advice to the beekeeper]Sovety pchelovodu. Moskva, Izd-
vo M-va sel'.khoz. RSFSR, 1961. 150 p. (MIRA 15:11)
(Bee culture)

BODROVA, Yevdokiya Maksimovna, kand. sel'khoz. nauk; OZOLINA, Zoya
Dmitriyevna, kand. sel'khoz.nauk; ULIN, I.I., red.;
SAYTANIDI, L.D., ~~takhn.~~ red.

[Organic fertilizers and their use]Organicheskie udobrenia i
ikh ispol'zovanie. Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1961.
193 p. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i
agropochvovedeniya (for Bodrova, Ozolina).
(Fertilizers and manures)

ULIN, Ivan Il'ich; LEONOVA, T.S., red.; RAKITIN, I.T., tekhn. red.

[Petr Sapunov's corn field] Kukuruznoe pole Petra Sapunova.
Moskva, Izd-vo "Znanie," 1962. 31 p. (Novoe v zhizni, na-
uke, tekhnike. V Seria: Sel'skoe khoziaistvo, no.22)

(MIRA 15:11)

(Corn (Maize))

PRUDNIKOV, G.; GORSHKOV, A., Geory Sotsialisticheskogo Truda;
MALININA, P., Geroy Sotsialisticheskogo Truda; SEMENOV, I.,
Geroy Sotsialisticheskogo Truda; KHALYAVIN, S.; BELOUSOV, D.;
MORYGANOV, A.N., kand. sel'khoz. nauk; ULIN, I.I., red.;
LEVINA, L.G., tekhn. red.

[Know how to use every hectare of land] Umelo ispol'zovat'
kazhdyi gektar zemli. Moskva, Izd-vo MSKh RSFSR, 1962. 52 p.
(MIRA 15:9)

1. Predsedatel' kolkhoza "Pervoye maya" Kaluzhskoy oblasti (for Prudnikov).
2. Predsedatel' kolkhoza "Bol'shevik" Vladimirskey oblasti (for Gorshkov).
3. Predsedatel' kolkhoza "12-y Oktyabr'" Kostromskoy oblasti (for Malinina).
4. Predsedatel' kolkhoza "Novaya zhizn'" Tul'skoy oblasti (for Semenov).
5. Predsedatel' kolkhoza "Kommunar" Bryanskoy oblasti (for Khalyavin).
6. Sekretar' partiynogo komiteta kolkhoza "Put' Lenina" Bryanskoy oblasti (for Belousov).
7. Zaveduyushchiy otdelom Moskovskogo instituta sal'skogo khozyaystva (for Moryganov).

(Agriculture)

GRIGORENKO, G.P.; ULIN, I.I., red.; BALAKIN, V.M., red.; KUPTSOVA,
Z.V., red.; SAYTANIDI, L.D., tekhn. red.

[Mechanization is the means for reducing the cost of produc-
tion] Mekhanizatsia - put' k snizheniiu sebestoimosti pro-
duksii. Moskva, Izd-vo MSKh RSFSR, 1962. 67 p.

(MIRA 16:6)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR.
(Agricultural machinery)

BALAKIN, V.M., red.; ULIN, I.I., red.; KUPTSOVA, Z.V., red.;
SAYTANIDI, L.D., takhn. red.

[For high production in the use of land]. Za vysokoproiz-
voditel'noe ispol'zovanie zemli; sbornik statei. Moskva,
MSKh RSFSR, 1962. 68 p. (MIRA 16:5)

1. Moscow. Vystavke dostizheniy narodnogo khozyaystva SSSR.
Pavil'on "Zemledeliye."

(Agriculture)

ULIN, O.V.

Semiautomatic device for deciphering and computing the distribution
of the extremal values of curves. Avtom.kont.i elek.izm.
no.1:55-60 '60. (MIRA 15:8)

(Electronic apparatus and appliances)
(Pulse techniques (Electronics)) (Electronic data processing)

16.6400 (1121,1329,2403)

32723
S/669/60/000/001/002/004
D299/D302

AUTHORS: Ulin, O. V. and Tsapenko, M. P.

TITLE: On methods of automatic determination of extremal values of continuous functions

SOURCE: Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut avtomatiki i elektrometrii. Avtomaticheskii kontrol' i elektricheskoye izmereniya. no. 1, 1960, 61-68

TEXT: Methods are considered for automatic determination of the extremal values of non-periodic processes by electronic computers. A function of type $n = f(t)$ is considered, whose graph is given; n is the ordinate of the curve and t - the time. The possible use of electric differentiation of this function is considered. In this case the function $n = f(t)$ can be represented by the voltage $U = k_0 n$, proportional to the ordinate at each moment of time. The derivative of the function can be found by a differentiating RC-circuit. This method, however, poses serious difficulties. Another

Card 1/3

32723

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On methods of automatic ...

method involves fixing the sign change of the increment of the function. Thereby, the continuous function is transformed into a quantized signal and all subsequent operations are carried out with discrete quantities. Below, several schemes of automatic devices are considered, based on the above method of finding and fixing extremal values. First, a relay servomechanism is considered. The function $n = f(t)$ can be represented as a pulse which is commuted in different channels. Each channel corresponds to a certain level of the continuous function. The signal arrives at the inputs of the device in the form of discrete values which express the number of the commuting channel. The operation of such a scheme involves several relays. The scheme is fairly simple; its operation does not depend on the frequency range of the process under investigation. In principle, it should yield any required degree of accuracy of decoding; in practice, however, the device is too cumbersome for high-accuracy requirements. Another scheme is the comparator scheme. Its operation involves the comparison of the input voltage with the voltage on a capacitor. Thereby, a current flows through the cir-

Card 2/3

32723
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D299/D302

On methods of automatic ...

cuit and closes a contact; this fixes the moment of passage through the extremum. This principle can be incorporated in fast electronic computers. As an example, a device is considered where a step input is applied to the comparator cell. This device is stable in operation up to frequencies of 50000 - 100000 cycles. The advantages of the comparator scheme are: The amplitude of the signal is entirely independent of the curvature of the wave-fronts and of the frequency of the process; it cannot be smaller than the known potential difference between 2 neighboring discrete levels. Automatic devices based on the comparator scheme are simple and handy in operation. Their speed is only determined by the rate of switching of the trigger circuit, and can attain 0.5 - 1 million comparison-operations per second. There are 5 figures and 4 Soviet-bloc references.

+

Card 3/3

1-3254-15
AN SSSR

Novosibirsk) Detain V. K. (Novosibirsk)

Elektricheskiye izmereniya neelektricheskikh velichiy v yadernykh
energiyakh. Izvestiya vuzov. Seriya fiziko-matematicheskiye nauki. 1964, No. 10. S. 1-4.
Information measurement systems. Automatic control systems. 1964, No. 10.
AN SSSR. 1964, 1967.

TOPIC TAGS: matrix computer, semiautomatic correlator

ABSTRACT: A semiautomatic correlator is briefly described which uses a matrix
for performing the correlation function calculation.

Card 1/2

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ACCESSION NR: AT5013038

function R_m from this approximate formula:

$$R_m \approx \frac{1}{N-m} \sum_{v=1}^{N-m} x_v x_{v+m} - \left(\frac{1}{N} \sum_{i=1}^N x_i \right)^2$$

and permits an automatic evaluation of $(N-m) R_m$ and NM , of the function $x(t)$ defined as a table of the numbers $X_1, X_2, \dots, X_1, \dots, X_n$. The correlator model was built with ferrite-transistor elements and is rated as "simple, small-sized, and reliable." The correlator error is claimed to be 5% or less. The average time of one reading is 0.1 sec. and is considered sufficient for manual-input operation. Orig. art. has 4 figures, 3 formulas and 1 table.

ASSOCIATION: none

SUBMITTED: 17Nov64

ENCL: 00

SUB CODE: DP

NO REF SOV: 004

OTHER: 000

llc

Card 2/2

ULIN, Vasilii Ivanovich; YANGURAZOV, Akhmet Valeyevich; OSTASHEVSKAYA,
G.A., red.; GAL'CHENKO, S.I., tekhn.red.

[Development of industry in Bashkiria; short outline] Razvitie
promyshlennosti Bashkirii; kratkii ocherk. Ufa, Bashkirscoe
knizhnoe izd-vo, 1958. 111 p. (MIRA 12:8)
(Bashkiria--Industries)

SKOBLOV, Dmitriy Alekseyevich; BENENSON, G.M., red.; UL'IN, V.M., red.;
MALYUGIN, V.I., red.; MASLOV, N.A., red.; ~~USPENSKIY, V.V., red.;~~
CHERNYAK, M.Ya., red.; SHASS, M.Ye., red.; MORSKOY, K.L., red.
izd-va; TEMKINA, Ye.L., tekhn.red.

[Lowering the expenditure of wood in building] Snizhenie raskhoda
drevesiny v stroitel'stve. Moskva, Gos.izd-vo lit-ry po stroit.,
arkhit. i stroit.materialam, 1959. 45 p. (MIRA 12:12)
(Building materials) (Building, Wooden)

ULINA, G. V.

60001

Mašnevic, I. Ya.; and Ulina, G. V. On regions of values of analytic functions represented by a Stieltjes integral. Vestnik Leningrad Univ 10 (1955), no. 11, 31-42. (Russian)

Let $E = E[G(\zeta, t), a, b]$ denote the class of functions $f(\zeta)$, regular in $|\zeta| < 1$, with the Stieltjes representation

$$f(\zeta) = \int_a^b G(\zeta, t) d\mu(t), \quad \int_a^b d\mu(t) = 1, \quad \mu(t) \uparrow,$$

where the kernel $G(\zeta, t)$ is a fixed function regular in ζ for $|\zeta| < 1$ and continuous in t for $a \leq t \leq b$. Various choices of $G(\zeta, t)$ lead to classical normalized sets of functions, thus: (1) $(e^t + \zeta)/(e^t - \zeta)$ gives the set of functions with positive real part; (2) $\zeta/(1 - 2t\zeta + \zeta^2)$ gives the set of functions typically real and regular $|\zeta| < 1$; (3) $-(1 - \zeta^2)/\zeta(1 - 2t\zeta + \zeta^2)$ gives the set of functions typically real in $|\zeta| < 1$ and regular except for a single pole at $\zeta = 0$; and (4) $\log(1 - e^{-t}\zeta)$ gives the set of functions $\log(\zeta/f(\zeta))$, where $f(\zeta)$ is starlike and univalent in $|\zeta| < 1$.

The authors prove that for fixed z and $G(\zeta, t)$, the domain of variability of $f(z)$, for $f(\zeta) \in E$ is the smallest convex cover of the curve $G(z, t)$, $a \leq t \leq b$. From this central theorem they easily deduce a variety of known results and a few new ones.

Math 1 - F/W

1/2

20001

Asinovic, I. Yaroslav-Ulino, G.V.

Some of their references are incorrect. The kernel (1) is due to Herglotz [Ber. Verh. Sächs. Ges. Wiss. Leipzig Math.-Phys. Kl. 63 (1911), 501-511], and (2) is due to Robertson [Bull. Amer. Math. Soc. 41 (1935), 565-572]. Theorem 1 of § 4 of this paper was first proved by Rogosinski [Math. Z. 35 (1932), 93-121]. The reviewer cannot agree with the "only" assertion made in Theorem 1 of § 1 of the paper. A. W. Goodman (Lexington, Ky.)

2/2

AWG

SUBJECT USSR/MATHEMATICS/Theory of functions CARD 1/2 PG - 541
 AUTHOR ASNEVIC I.Ja, ULINA G.V.
 TITLE On the range of values of analytic functions which can be
 represented as Stieltjes integral.
 PERIODICAL Vestnik Leningradsk. Univ. 10, No.11, 31-45 (1955)
 reviewed 1/1957

The authors consider the class $E = E[G(z,t); a, b]$ of functions $f(z)$, being regular in $|z| < 1$, having an integral representation of the form

$$f(z) = \int_a^b G(z,t) d\mu(t),$$

where $G(z,t)$ is regular in $|z| < 1$ for $a \leq t \leq b$, and where $\mu(t)$ is a monotone non-decreasing function such that $\int_a^b d\mu(t) = 1$. Various choices of the

kernel $G(z,t)$ give well-known classes, e.g. $E_1 = E \left[\frac{e^{it} + z}{e^{it} - z}, -\pi, \pi \right]$ is the

class of functions having a positive real part in $|z| < 1$. It is shown first that the range of values of $f(z) \in E$ is a closed, connected, convex set which

Vestnik ~~Leningradsk.~~ Univ. 10, No.11, 31-45 (1955) CARD 2/2 PG - 541

is the convex hull of the curve $w = G(z,t)$, $a \leq t \leq b$. This appears to be the only theorem proved for the class E, for the authors confine themselves in the sequel to special kernels and deduce only those well-known properties of the corresponding classes; only those properties are deduced which follow immediately from a knowledge of the special kernels.

89497

S/043/60/000/001/003/014
C 111/ C 33316.3600
AUTHOR:

Ulina, G. V.

TITLE:

On the range of values of some systems of functionals
in schlicht classes of functions

PERIODICAL:

Leningrad. Universitet. Vestnik. Seriya matematiki,
mekhaniki i astronomii, no. 1, 1960, 34-54

TEXT: Let S be the class of functions $f(z) = z + c_2 z^2 + \dots$
 \dots , which are regular and schlicht in $|z| < 1$; $S^2(c_2)$ - class
of functions $f(z) \in S$ with a given coefficient c_2 .

Let B and B^* be two arbitrary simply connected domains of the
 w -plane without common points, B is assumed to contain $w = 0$ and B^*
to contain $w = \infty$. Let $w = f(z)$, $f(0) = 0$ be a regular and schlicht
function in $|z| < 1$ mapping $|z| > 1$ onto B^* . The set of the pairs
of functions $(f(z), F(\mathcal{G}))$, where $f(z)$ and $F(\mathcal{G})$ have the above
properties, is called the class M .

With the aid of the variational method of G. M. Goluzin the author
determines the range of values of the systems: 1.) $(f(r), c_2)$,
where $f(\mathcal{G}) \in S(c_2)$ and has real coefficients, with a fixed $r, 0 < r < 1$.

Card 1/2

89497

On the range of values . . .

S/043/60/000/001/003/014
C 111/ C 333

2.) $(\ln \frac{f(z)}{z}, \ln f'(z))$ in the class S for a fixed z from $|z| < 1$.

3.) $(\frac{f''(0)}{f'(0)}, \frac{f'(0)}{F'(\infty)})$ in the class M.

The knowledge of the boundaries of domains, given by differential equations or explicitly, renders possible an estimation of several related functionals.

The author mentions N. A. Lebedev and A. D. Aleksandrov.

There is 1 figure, 6 Soviet-bloc and 2 non-Soviet-bloc references. The two references to English-language publications read as follows: J. A. Jenkins. On a problem of Gronwall. Ann. math., vol.59, No. 3, 490-504, 1954; T. H. Gronwall. On the distortion in conformal mapping when the second coefficient in the mapping function has an assigned value. Proc. Nat. Acad. of Sciences of America, 6, 300-302, 1902.

SUBMITTED: April 12, 1958

Card 2/2

ULINA, G.V.

Domains of values of certain systems of functionals in classes of
univalent functions. Vest. LGU 15 no.1:34-54 '60.

(MIRA 13:1)

(Functional analysis)