

CZECHOSLOVAKIA

ZAMRADNIK, R; MICHL, J.

Institute of Physical Chemistry of the Czechoslovak
Academy of Sciences, Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications,"
No 10, 1965, pp 3529-3535

"Tables of Quantum Chemical Data. V. Molecular Orbitals of
peri-Condensed Tricyclic Hydrocarbons."

L 31385-66 EWP(j) RM

ACC NR: AP6021090

SOURCE CODE: CZ/0008/66/000/001/0007/0021

AUTHOR: Zahradnik, Rudolf50
B

ORG: Institute of Physical Chemistry, CSAV, Prague (Ustav fyzikalni Chemie CSAV)

TITLE: Quantum-chemical studies of sulfur compounds [This paper was presented at the Symposium for Organic Sulfur Substances held in Liblice from 15 to 17 June 1964.]

SOURCE: Chemické listy, no. 1, 1966, 7-21

TOPIC TAGS: organic sulfur compound, sulfate, conjugate bond system, physical chemistry property, sulfur compound, electron spectrum, chemical reaction kinetics, aromatization, quantum chemistry, heterocyclic base compound

ABSTRACT: The relationship between the theoretical and experimentally found properties of organic sulfates is discussed. The classical types of conjugated/sulfur compounds are described. Difficulties in predicting properties of organic sulfur compounds are evaluated. The following classes of compounds are discussed in detail: thiocarbonyl compounds, disulfides, sulfur analogues of aromatic conjugated hydrocarbons, sulfoxides, sulfones, and some inorganic substances. The electron spectra, chemical reactivity, physical properties, and formation of aromatic rings are

Card 1/2

L 31385-66

ACC NR: AP6021090

0

described. Spectra of heterocycles containing more than one S atom, and spectra of alifatic sulfur compounds are discussed. Orig. art. has: 12 figures, 63 formulas, and 1 table. [JPRS]

SUB CODE: 07 / SUM DATE: none / ORIG REF: 013 / OTH REF: 027
SOV REF: 003

Card 2/2 CC

42763-66 RWP(1) NW/JM/EM
ACC NR: AP6031469

SOURCE CODE: CZ/0008/66/010/003/0289/0311

40
B

AUTHOR: Zahradnik, Rudolf

ORG: Institute for Physical Chemistry, Czechoslovak Academy of Sciences, Prague
(Ustav Fyzikalni Chemie CSAV)

TITLE: Calculations of physical properties and of chemical reactivity of organic compounds (This paper was presented at the Quantum Chemistry Group (Professor P.-O Lowdin) held in Uppsala on 13 May 1964.)

SOURCE: Chemicks listy, no. 3, 1966, 289-311

TOPIC TAGS: quantum chemistry, organic chemistry

ABSTRACT: Importance of quantum chemistry for interpretation of known facts, and for predicting properties of substances that were not yet studied, and those that have not yet been synthesized are discussed. Electronic structures of organic substances, and Huckel's approximation method of molecular orbits for the study of organic compounds are described. Properties of various compounds determined by the method of molecular orbits are tabulated. Principles for the determination of the aromatic character of organic compounds are discussed. Use of heats of formation in prediction of reactivity of compounds is described. Estimation of stability of organic compounds is discussed. Orig. art. has: 13 figures, 2 formulas and 5 tables.
[JPRS: 36,002]

SUB CODE: 03 / SUBM DATE: none / ORIG REF: 039 / OTH REF: 011

Card 1/1 *llh*

0817 2759

CZECHOSLOVAKIA

ZAHRAINIK, R.; MICHL, J.; KOPECKY, J.

1. Institute of Physical Chemistry, Czechoslovak Academy of Sciences
(for ?); 2. Institute of Industrial Hygiene and Occupational Diseases,
Prague (for ?)

Prague, Collection of Czechoslovak Chemical Communications, No 2, Feb
1966, pp 640-648.

"Electronic structure of non-alternant hydrocarbons, their analogues and
derivatives. Part 5: Indacene-like hydrocarbons."

ZAHRADNIK, R.

CZECHOSLOVAKIA

PAIKANYI, C., ZAHRADNIK, R.

Institute of Physical Chemistry, Czechoslovak Academy of Sciences,
Prague - (for both).

Prague, Collection of Czechoslovak Chemical Communications, No 12,
December 1965, pp 4287-4296

"Physical properties and chemical reactivity of alternant hydro-
carbons and related compounds. Part 9: Anodic oxidation of deriva-
tives of benzenoid hydrocarbons."

(For the 75th birthday of Academician J. Heyrovsky).

ZAGRADNIK, R. [zahradnik, R.]; KHVAPIL, M. [Chvapil, M.]; VOSTAL, Ya.
[Vostal, J.]; TEYSINGER, Ya. [Teisinger, J.]

Toxicity of alcohols and potassium salts of alkylxanthogenic
acids. Farm. i toks. 25 no.5:618-622 S-0 '62 (MIRA 18:1)

1. Institute of Industrial Hygiene and Occupational Diseases,
Prague.

ZAHRADNIK, R.; PARKANYI, C.

An HMO study of naphthothiophenes, naphthobenzothiophenes and phenanthrobenzothiophenes. Coll Cz Chem 30 no.1:195-207 Ja '65.

1. Institute of Physical Chemistry of the Czechoslovak Academy of Sciences, Prague. Submitted May 18, 1964.

ZAHRADNIK, R.; PARKANYI, C.

Physical properties and chemical reactivity of alternant hydrocarbons and related compounds. Pt.8. Coll Cz Chem 30 no.2:355-379 F '65.

1. Institute of Physical Chemistry of the Czechoslovak Academy of Sciences, Prague. Submitted June 29, 1964.

ZAHRADNIK, R.; MICHLE, J.

Electronic structure of non-alternant hydrocarbons, their analogues and derivatives; introductory remarks. Coll Cz Chem 30 no.2:515-536 F '65.

1. Institute of Physical Chemistry of the Czechoslovak Academy of Sciences, Prague. Submitted September 4, 1964 and June 18, 1964.

ZAHRADNIK, R.; MICHL, J.; KOUTECKY, J.

Tables of quantum chemical data. Pt.2. Coll Cz chem 29 no.8:
1932-1944 Ag '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of
Sciences, Prague.

ZAHNADNIK, R.; MICHLE, J.; KOUTECKY, M.

Tables on quantum chemical data. Pt. 3. Coll. Jz Chem 29 no.12:3184-3210 D '64.

1. Institute of Physical Chemistry of the Czechoslovak Academy of Sciences, Prague.

ZAHRAĐNIK, R.

"Annual review of physical chemistry" edited by H. Eyring.
Reviewed by R. Zahradnik. Chem listy 58 no.12:1457-1458 D
'64.

ZAHRADNIK, S.

"Comparing the economy of fuel consumption in boilers when changed from coal to gas."

p. 246 (Energetika, Vol. 8, No. 6, June 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) (LC, Vol. 7, No. 9, September 1958.

ZAHRODNICEK, O

ZAHRODNICEK O.

Indikace tkance terapie v dermatovenerologii. /Indications for
tissue therapy in dermatology and venereology/ Cesk. dermat.
26:4-5 Apr-Ma '51 p. 202-8.

1. Of the Dermatological Clinic of the Medical Faculty of
Charles University Branch in Pilsen. (Head-Docent V. Hasl, M.D.).

ZVONAR, Vladimir; ZAHRADNIKOVA, Anna

Simple method for determining contact angles. Chem prun 15 no.4:
242-244 Ap '65.

1. Research Institute of Synthetic Resins and Lacquers, Pardubice.
Submitted December 17, 1964.

ZAHRADNIKOVA, K.

"Activities of the most important botanical institutes in the Chinese People's Republic."

p. 70 (Biologia, Vol. 13, no. 1, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) IC, Vol. 7, no. 9,
September 1958

JASOVICOVA, Maria; ZAHRADNIKOVA, Kamila

Distribution and stand conditions of *Cladium mariscus* (L.) Pohl in southern Slovakia. *Biologia* 15 no.6:415-420 '60. (IBIAI 9:10)

1. Biologicky ustav Slovenskej akademie vied, Oddelenie geobotaniky a systematiky rastlin, Bratislava.
(SLOVAKIA--CLADIUM MARISCUS)

MUSIL, J.; Technicka spoluprace: ZAHRADNIKOVA, V.; ZINKEOVA, J.

Effect of Na nitrite in long-term experiments. Pt.1.
Cesk. hyg. 10 no.10:589-597 D '65.

1. Ustav hygieny, Praha.

ZAFRADNIKOVA-ROSETZKA, K

Occurrence in the Trnava area of weeds in crops which require hoeing. p. 277

Vol. 10, no. 3, 1955

BIOLOGIA

Bratislava, Czechoslovakia

So: Eastern European Accession Vol. 5, No. 4, April 1956

ZAHRADNIKOVA-ROSETZKA, K.

A contribution to studies of the flora in the Demanova valley.

p. 5 (BIOLOGICKE PRACE) Vol. 3, no. 4, 1957,
Bratislava, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

L 00545-66 EWT(d)/ENP(v)/ENP(k)/ENP(h)/ENP(l) IJF(c) BC

ACCESSION NR: AP5014218

UR/0102/65/000/002/0060/007

AUTHOR: Zagrebel'nyy, V. I. (Zagrebel'nyy, V. I.) (Kiev)

TITLE: High-precision control of rate of electric drive

37
B

SOURCE: Avtomatyka, no. 2, 1965, 69-75

14

TOPIC TAGS: automatic control design, negative feedback, automatic control system

ABSTRACT: The article surveys the error inherent in automatic control systems. The characteristics of a discrete rate control system are summarized. Systems of high-precision automatic control of the rate of electric drive are discussed. The advantages of continuous and discrete automatic control systems are compared. The operator equipment of a discrete control system with respect to its accuracy and stability is analyzed. The advantages of a discrete control system with feedback of the rate and its derivative are compared with the advantages of both. The continuous part includes a discrete tachometer, quartz generator, frequency...

I. 00345-66

ACCESSION NR: AP5014218

cy divider, reversible counter, a unit for transforming a discrete quantity into a continuous one, and a general setting block for the continuous and discrete parts. The equations describing the processes in this system are set up and the conditions for the stability of the coordinate is obtained. The numerical values of the transition probabilities and the experimental results confirmed the correctness of the theoretical model. The relations of the rate during the transition process and the transition probabilities are maintained.

ASSOCIATION: none

SUBMITTED: 09 Jun 64

NR REF SOV: 006

ENCL: 00

SUB CODE: 1E

OTHER: 004

Card 2/2

KOCISKOVA, D.; STYK, B.; HANA, L.; technical assistance: VANGO, K.;
ZAHUMENSKA, B.

The relation of properdin and complement to the thermolabile cofactor of normal serum necessary for the reaction of specific antibody with influenza A2 virus. Acta virol. Engl. Ed. Praha 5 no.1: 19-25. Ja '61.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

(INFLUENZA VIRUSES immunol)
(COMPLEMENT)
(PROPERDIN)

RATHOVA, V.; KOCISKOVA, D.; tedhnika spolupraca VANCO, K.; ZAHRECKENSKA, B.

Antibody response after different modes of administration of influenza viruses group as in some laboratory animals and the effect of different methods of removing non-specific inhibitors on the titer of specific antibodies in their sera. Cesk. epidem. mikrob. imun. 10 no.3:170-175 '61.

1. Virologicky ustav CSAV v Bratislave.
(INFLUENZA VIRUSES immunol.)

KERTESZ, Tibor, dr.; ZAHUMENSZKY, Eleme., dr.

Unusual foreign body in the rectum. *Magy. sebész. 16 no.1:72-74 Mr '63.*

1. Az Orvostovábbképző Intézet Sebészeti Osztálya.
(FOREIGN BODY) (RECTUM) (HOMOSEXUALITY)

HAAS, Peter; ZAHUMENSZKY, Elemer

Cancer of the stomach following gastrectomy and gastroentero-
anastomosis for peptic ulcer. Orv hetil 95 no.15:416-420 Ap '54.
(REAL 3:8)

1. A Szabolcs-utcai Allami Korhaz (igazgato:Doleschall Frigyes dr.)
Sebészeti Osztalyanak (foorvos: Molnar Bela dr., az orvostudományok
kandidátusa) közleménye.

(STOMACH, neoplasms

*after gastrectomy & gastroenteroanastomosis for peptic
ulcer)

(PEPTIC ULCER, surg.

*gastrectomy & gastroenteroanastomosis, compl., cancer)

TALLIAN, Ferenc, dr.; MOLNAR, Antal, dr.; ZAHUMENSZKY, Elemer, dr.

Obstructive jaundice occurring at the last stage of pregnancy.
Orv. hetil. 105 no.42:1994-1995 0 18 '64.

1. OTKI II. Szuleszeti-Nogyogyaszati, III. Belgyogyaszati- es
Sebeszeti Tanszek.

HERCSEG, Tibor, dr.; ZAHUMENSZKY, Elemer, dr.

Intra-operative abdominal diagnosis. Excerpts from the Balassa commemorative address delivered by the late professor Bela Molnar. Orv. hetil. 105 no.35:1648-1653 Aug 30 '64.

ZAHUMENSZKY, Jozsef

Conferece on the current questions of vegetable and fruit transportation. Kozleked kozl 20 no. 24: 396 14 Je '64.

1. Division chief, General Directorate of Automobile Transportation, Budapest.

ZAHUMENSZKY, Jozsef

Tasks of the Ministry of Transportation and Posts in the field of directing merchandises and dispatches in relation to a better use of public and commercial motor vehicles. Kozleked kozl 18 no.1:6-8 Ja '62.

ZAHUMENSZKY, Jozsef

Task of the persons responsible for forwarding and the motor vehicle drivers of public and specific transportation enterprises in connection with a better utilization of trucks. Kozleked kozl 18 no.3: 34-36 Ja '62.

(Hungary—Transportation, Automotive)

HUNGARY

DESI, Illes, BALOGH, Attila, ZAHIMENSZKY, Zille, KOVACS, Ferenc; Medical University of Budapest, Neuro-Pathophysiological Laboratory of the Pathophysiological Institute (Budapesti Orvostudományi Egyetem, Korelettani Intezetének Idegkorelettani Laboratoriuma).

"Effect of Aromatic Hydrocarbons on the Frequency of Cerebrocortical Strychnine-Spike Bursts."

Budapest, Kiserletes Orvostudomány, Vol XVIII, No 4 Aug 66, pages 410-417.

Abstract: [Authors' Hungarian summary] The central nervous systemic effects of benzene and xylene were studied. The method involved observation of changes in the frequency of spike bursts evoked by the placement of strychnine on the exposed cerebral cortex. The data obtained suggest the possibility that, when administered acutely into the organism (in 0.7 ml/kg amounts), benzene and xylene also attack some point in the brain stem in addition to their cortical paralyzing effect. 6 Eastern European, 12 Western references. [Manuscript received 24 Aug 65.]

1/1

RUMANIA

TKADLECEK, L.; IURASCOVA, V.; DOSTAL, M.; and ZAHVEI, I. (Affiliations not shown), (Socialist Republic of Czechoslovakia)

"A Study of the Protective Affect of Cystamine on Hemopoiesis in Irradiated Rats"

Bucharest, Revista Sanitara Militara, Special No., 1965, Vol 16, pp 384-389

Abstract: Study on rats irradiated with 470, 575, 680 and 780 r of Co⁶⁰, 15 minutes following 120 mg/Kg of cystamine intraperitoneally; two additional similar experiments; in all, the drug reduced the adverse affect of radiation exposure on the number of residual hemopoiesis colonies in the spleen. Photograph of spleen specimens, 3 graphs.

1/1

ZAHZRIAT, C.

Two kinds of weeds in rice fields, new flora in Rumania.
p. 827. ACADEMIA REPUBLICH POPULARE ROMANE. Rumania
Vol. 5, No. 5, May 1955

East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 11, August 1956

ZAIC, M.

Creosote 1sl. and its importance for wood preservation. p. 3.
(Hempre-bilten, Vol. 7, No. 1. 1957, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

SIKITA, B. [Sikyta, B.]; ZAICHEK, I. [Zaicok, J.]

Biosynthesis of erythromycin in pilot plant fermenters. Antibiotiki
8 no.12:1067-1070 D '63. (MIRA 17:10)

1. Nauchno-issledovatel'skiy institut antibiotikov, Roatoki pod Pragoy
i Biotika, natsional'noye predpriyatiye, Slovenska Lupcha, Chekhoslo-
vatskaya Sotsialisticheskaya Respublika.

L 00139-67 EMP(j)/EMP(m) RM
ACC NR: AP6027524 (A,N)

SOURCE CODE: UR/0317/66/000/003/0056/0057

AUTHOR: Zaichok, K.

ORG: None

TITLE: Lacquer protective coating

SOURCE: Tekhnika i vooruzheniye, no. 5, 1966, 56-57

TOPIC TAGS: ^{protective coating,} paint, lacquer, varnish / 23-0513 lacquer

ABSTRACT: The use of less expensive water-soluble lacquer paints is briefly discussed. For experimental testing a 23-0513 lacquer was used for laying a 30-micron first coat by means of two pneumatic sprayers of 4 and 115 atm. The results were satisfactory in both cases. It is mentioned that this lacquer paint requires a longer time for evaporating volatile components before hot drying. A period of 30 min is needed for evaporation of about 70% of volatile substances. A convection method of heating is usually applied. The heating by infrared rays is less effective for water-soluble lacquer paints. The advantages of the eventual use of electrophoresis processes for water-soluble lacquer paints is stressed.

SUB CODE: 11/ SUBM DATE: None

Card 1/1

ASANDEI, G., ing.; ERDELYI, A., ing.; NECULAU, Gh., ing.; ZAICESCU,
D., ing.

Construction site office made of reinforced concrete
prefabricated elements. Rev constr si mat constr 15 no. 12:
643-646 D '63.

1. I.S.C.M. Onesti a Ministerului Industriei Petrolului si
Chimiei.

ZAICHEK, Milan

A letter from Prague. Grazhd.ay. 18 no.12:29-30 D '61.
(MIRA 15:1)
(Czechoslovakia--Aeronautics, Commercial)

ZAICHENKO, A. R., inzh.; ZOLOTAREVSKAYA, M. V., inzh.

Perlite concrete insulating slabs based on slag cement. Stroi.
mat. 8 no.9:27 S '62. (MIR: 15:10)

(Lightweight concrete) (Concrete slabs)

ZAICHENKO, A.R., inzh.; PURYGA, S.S., inzh.

Cooling discharge areas. Stroi. mat. 10 no.5:31-32 My '64.
(MIRA 17:9)

ZAICHENKO, I. (Minsk)

Commander or dispatcher? Grazhd.ev. 20 no.11:26 N '63. (MIRA 17:2)

ZAICHENKO, I., arkhitektor; MIGAY, I. [Mynai, I.], arhitektor

Projects for the planning of villages were worked out by
volunteers. Sil'.bud. 12 no.9:13-14 S '62. (MIRA 15:11)
(Dnepropetrovsk Province—City planning)

ZAICHENKO, I. R., arkhitektor

Planning settlements at stations with depot facilities. Transp.
stroil. 13 no.4:60-62 Ap '63. (MIRA 1614)

(City planning)

(Railroads—Buildings and structures)

S/261/62/000/016/002/003

I007/I207

AUTHOR: Zaichenko, Yu. V.

TITLE: Modernization of 5H-5X 2 (5N-5Kh 2) and 5H-5X 4 (5N-5Kh 4) centrifugal pumps

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 34. Kompessory i kholodil'naya tekhnika, no. 16, 1962, 8, abstract 341651. (Novosti nef't. i gaz. tekhn. Nefteoborud. i sredstva avtomatiz., no. 5, 1961, 29-31)

TEXT: In order to improve the performance of centrifugal pumps of the 5H-5X 2 (5N-5Kh 2) and 5H-5X 4 (5N-5Kh 4) type, the Nal'chik mashino-stroitel'nyy zavod (Nal'chik Machinery Plant) replaced the sliding-contact bearings by rolling-contact (antifriction) bearings. This made it possible to increase the mechanical efficiency, to reduce the distance between the pump-shaft supports, and hence the shaft length and pump size. This resulted in increased service life of the packings and higher delivery of the pumps.

[Abstracter's note: Complete translation.]

Card 1/1

ZAICHKIN, N.N. (Rostov-na-Donu)

Demonstration of technical uses of semiconductors. *Fig. v shkole*
20 no.5:73 S-0 '60. (MIRA 13:11)

(Semiconductors)

ZAICHKINA, L.I.

Internal control in some large pharmacies. Apt. de la 12 no.2:
18-23 Mr-Ap '63. (MIRA 17:7)

1. Pyatigorskij farmatsevticheskiy institut.

ZAICHKINA, T.S.

Enlarged session of the Presidium of the Administration of the
All-Union Society of Neuropathologists and Psychiatrists and the
editors of "Zhurnal nevropatologii i psikiatrii imeni S.S.Korsa-
kova." Zhur. nerv. i psikh. 54 no.9:810-812 S '54. (MLRA 7:9)
(PSYCHOLOGY, PATHOLOGIC--PERIODICALS)

ZAICHKINA, T.S.

Clinical characteristics and hormonal changes in so-called menstrual
epilepsy. Vop. psikh. no.4:106-116 '60. (ICMIA 15:2)
(EPILEPSY) (MENSTRUATION)

L 33425-66 EWT(m)/EWP(t)/ETI LJP(G) JD
ACC NR: AR6012428 SOURCE CODE: UR/0081/65/000/020700

32
B
18

AUTHOR: Zaichko, L. F.; Zakharov, N. S. Mordvinova, V. D.

TITLE: Determination of antimony microconcentrations in high-purity tin by the method of amalgam polarography with accumulation

SOURCE: Ref. zh. Khimiya, Abs. 20G152

REF SOURCE: Izv. Tomskogo politekhn. in-ta, v. 128, 1964, 50-52

TOPIC TAGS: antimony, tin, ~~bismuth~~, electrolysis, polarography, amalgam, trace analysis, HIGH PURITY METAL

ABSTRACT: A method is described for determining Sb traces in high-purity tin, based on preliminary separation of Sn in the form of $SnBr_4$ and subsequent determination of Sb by the method of amalgam polarography with accumulation against the background of 5N H_2SO_4 + 50% ethanol. The anode peak of the Sb was observed at -0.1 v. Bi, Cu, and Sn do not interfere with determining the Sb. A 4-ml concentration of HBr + 1 ml Br_2 is used in dissolving 0.5g of Sb. The solution is evaporated to dryness in a chamber at 170C, then 1 ml 6N HCl is added to the residue, and Sb (5+) is reduced to Sb (3+) with sodium hypophosphite (30-40 mg) at 60-70C. The solution is evaporated 2-3 times after adding water.

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L 33425-66

ACC NR:AR6012428

then the electrolyte 5N H₂ SO₄ + 50% ethanol is added to the residue, and the electrolysis is carried out at -0.5 v for 15 min after which the amalgam dissolution curve is registered. G. Prokhorova.
[Translation of abstract].

[NT]

SUB CODE: 11/ SUBM DATE: 00

Card 2/2 ULR

ZAICHKO, L.F.; ZAKHAROV, M.S.

Method of amalgam polatography with storage. Report No. 1:
Polarographic behavior of antimony. Zhur. anal. khim. 21
no. 1:65-69 '66 (MIRA 19:1)

1. Tomskiy politekhnicheskij institut imeni Kirova.

ZACHKO, L. F.

The Second All-Union Conference on the Preparation and Analysis of High-Purity Elements, held on 24-28 December 1963 at Gorky State University im. N. I. Lobachevskiy, was sponsored by the Institute of Chemistry of the Gorky State University, the Physicochemical and Technological Department for Inorganic Materials of the Academy of Sciences USSR, and the Gorky Section of the All-Union Chemical Society im. D. I. Mendeleev. The opening address was made by Academician N. M. Zhavoronkov. Some 90 papers were presented, among them the following:

P. V. Kristalev and L. B. Kristaleva; Yu. L. Lel'chuk and others; L. F. Zaichko, M. S. Zakharov, and V. F. Yankanskas. Methods for determining iron (10^{-5} to $10^{-6}\%$), boron ($5 \times 10^{-5}\%$) and phosphorus ($10^{-6}\%$), also antimony in tin.

(Zhur. Anal. Khim. 19 NO.6, 1964 p. 777-79)

STROMBERG, A.G.; ZAKHAROV, M.S.; GORODOVYKH, V. Ye.; ZAICHKO, L.F.

Determination of the ultramicroimpurities of zinc, lead, and copper in high purity tin by amalgam polarography. Zav. Lab. 27 no.5:517-521 '61. (MIRA 14:5)

1. Tomskiy politekhnicheskii institut.
(Zinc--Analysis) (Lead--Analysis) (Copper--Analysis)

ZAIDEL, A.

"Isotopic spectrum analysis of lead."

MATEMATICKO-FYZIKALNY CASOPIS, Bratislava, Czechoslovakia, Vol. 9, no. 1, 1959

Monthly List of EAST EUROPEAN ACCESSIONS INDEX (EEAI), LC, Vol. 3, No. 7,
July, 1959

Unclassified

ZAIDEL, Traian, ing.-sef

Two essential concerns. Constr Buc 16 no.742:2 28 March 1964.

1. Fabrica de caramizi, Roman.

TJBTANOVSKIY, A.A.; ZAIDES, A.L.; BANGA, Ilona, a biologiai tud.doktora;
ORLOVSKAYA, G.V.

Comparative data of metacollagen and collastromine. Biol orv kozl
MTA 11 no.4:457-465 '60. (EIKAI 10:5)

1. Moszkvai Reumakutato Intezet, Moszkvai Kozponti Borkutato
Intezet, Budapesti Orvostudomanyi Egyetem I. Korbcnetani es
Kiserleti Rukutato Intezet.
(COLLAGEN)
(COLLASTROMIN)

BANGA, Ilona; ZAIDES, A.L.; TUSZTANOVSKY, A.A.; ORLOVSKAIA, G.V.

Change of the submicroscopic structure of collagen under the effect
of collagenmucoproteinase. Biol orv kozl MTA 11 no.4:467-476 '60.
(EE&E 10:5)

I. I. Korbontani es Kiserleti Bakkutato Intezet, Orvostudomanyi
Egyetem, Budapest, Kozponti Bakkutato Intezet Moszkva, es
Reumakutato Intezet, Moszkva.

(COLLAGEN)

(COLLAGEN MUCOPROTEINASE)

ZACHAREWICZ, Witold; UZAREWICZ, Arkadiusz; ZAJDLEWICZ, Marek

On boronylation-oxidation of 1,3-dimethyl-1-ethyl-cyclohexadiene-3,5.
Rocz chemii 36 no.2:367-368 '62.

1. Katedra Chemii Organicznej, Uniwersytet im. M. Kopernika, Torun.

S/061/62/000/021/013/069
B156/B101

AUTHORS: Zacharewicz, Witold, Uzarewicz, Arkadiusz, Zaidlewicz, Marek

TITLE: The hydroboration and oxidation of 1,3-dimethyl-1-ethyl-cyclohexa-3,5-diene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1962, 140, abstract 21Zh92 (Roczn. chem., v. 36, no. 2, 1962, 367 - 368 [Pol.; summary in French])

TEXT: A new unsaturated $C_{10}H_{18}O$ alcohol of unknown structure has been produced by the action of B_2H_6 on 1,3-dimethyl-1-ethyl-cyclohexa-3,5-diene (I) followed by oxidation. Over a period of 4 hours, 2.35 g of B_2H_6 are passed through 0.5 moles I dissolved in 200 ml of ether, in H_2 atmosphere (at $0^\circ C$). The ether is distilled off in vacuo, 30 ml water, and then a mixture of 70 ml 30% H_2O_2 and 60 ml of 3 N NaOH are added; $C_{10}H_{18}O$ is extracted from the reaction mixture with ether; its boiling point is

Card 1/2

L 11812-66

ACC NO: AP6031696

(N)

SOURCE CODE: PO/0099/66/04.0/003/0437/0443

AUTHOR: Zaidlewicz, Marek; Uzarewicz, Arkadiusz; Zacharewicz, Witold

17
B

ORG: Department of Organic Chemistry, M. Copernicus University, Torun (Katedra Chemii Organicznej Uniwersytetu M. Kopernika)

TITLE: Action of selenium dioxide on 1,3-dimethyl-1-ethyl-cyclohexadiene-3,5

SOURCE: Roczniki chemii-annales societatis chimicae polonorum, v. 40, no. 3, 1966, 437-443

TOPIC TAGS: selenium compound, organoselenium compound

ABSTRACT: The action of selenium dioxide on 1,3-dimethyl-1-ethylcyclohexadiene-3,5 yields two products: (1) the mixture of 1,3-dimethyl-2-ethyl-benzene, and (2) selenoorganic compounds. Orig. art. has: 1 table. [Based on authors' Eng. abst.] [JPRS: 36,002]

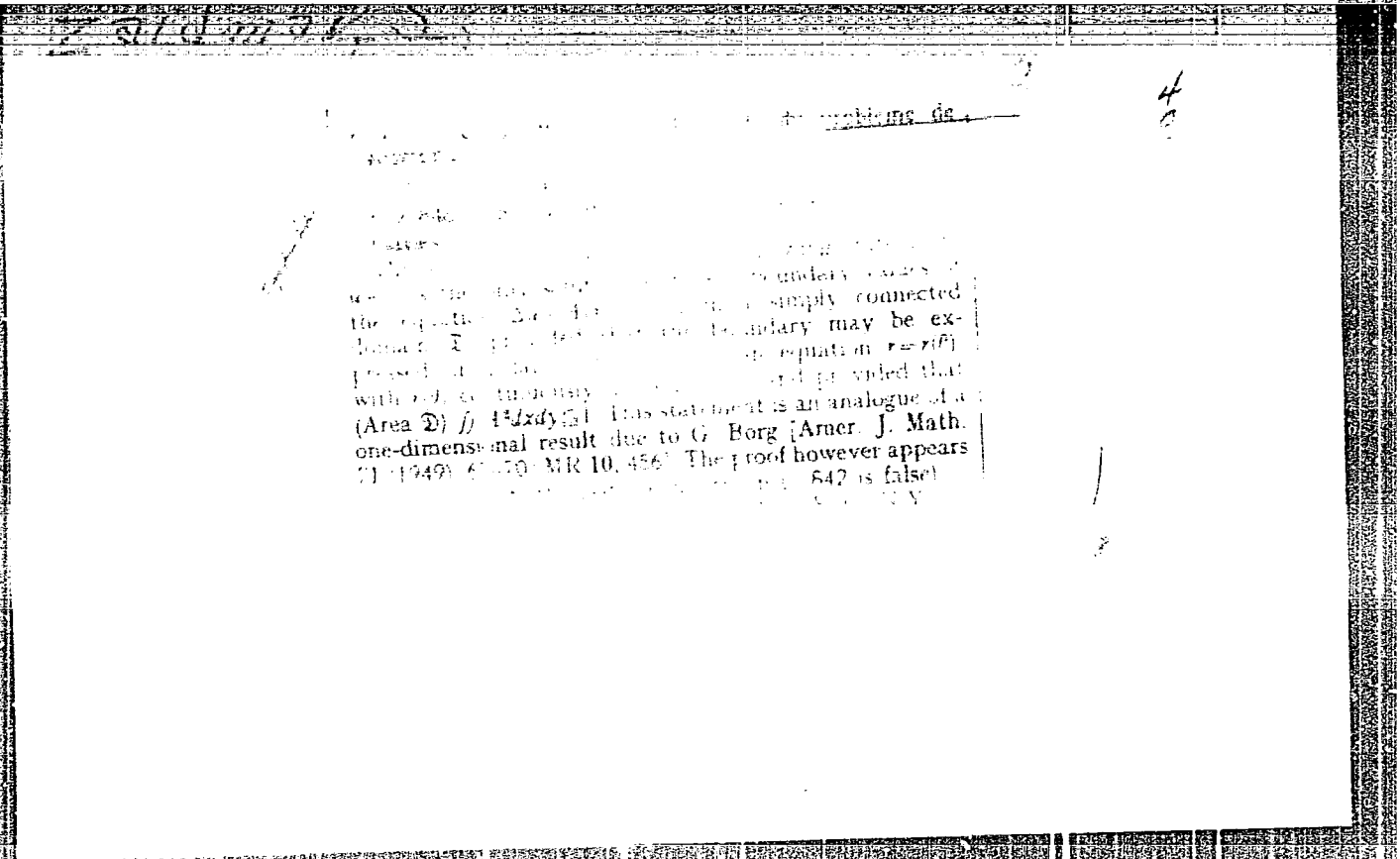
SUB CODE: 07 / SUBM DATE: 02Aug65 / ORIG REF: 002 / OTH REF: 010

Card 1/1 of

0919 0276

Let K be a ~~family~~ one-parameter family of plane curves, given by $y = F(x, t)$, where the parameter t stands for the ordinate at $x = 0$. If $y_1 = F(x, t_1)$, $y_2 = F(x, t_2)$ satisfy $y_1 - y_2 = t_1 - t_2$ for all x , then y_1 and y_2 are said to be parallel. The set $\{K\}$ is divided into equivalence classes of parallel curves. The following are some characteristic results: $F(x, t)$ is continuous with respect to t and, for fixed x , F is almost everywhere differentiable with respect to t ; the set of equivalence classes of parallel curves is not denumerable, unless it reduces to a single class. It seems to me, however, that the conclusions stated are incomplete and he was not able to follow the author's argument.

L. G. Sussid (Philadelphia, Pa.)



ZALIKOV, R.; ATADZHANOV, B.; GURBANOV, T., red.

[Careful sericulturist] Ykhlasyly iupekchi. Ashgabat,
Turkmenovletnashir, 1963. 7 p. [In Turkmen]
(MIRA 17:7)

ZAIKOVA, R.R.; MISKARLY, A.K.; BAYRAMOV, A.M.

Effect of heat treatment on the adsorption of sodium salts of certain organic acids by kaolinite clay. Azerb. khim. zhur. no.1:83-87 '65.
(MIRA 18:7)

1. Institut khimii AN AzerSSR.

ZAIDOVA, R.R.; MISKARLI, A.K.; BAYRAMOV, A.M.

Effect of sodium salts of some amino and hydroxy acids on
the heat resistance of aqueous suspensions of kaolinite
clays. Dokl. AN Azerb. SSR 20 no.12:9-14 '64.

(MIRA 18:4)

1. Institut khimii AN AzerbSSR.

MISKARLI, A.K.; ZAIDOVA, R.R.

Effect of a surface-active medium on the thermostability of
aqueous dispersions of kaolinite clay. Dokl. AN Azerb. SSR
20 no.9:17-22 '64. (MIRA 18:1)

1. Institut khimii AN AzerSSR. Predstavleno akademikom
AN AzerSSR M.F. Nagiyevym.

ZAIKOVA, S.A.

Osteological differences between the common hedgehog (*Erinaceus europaeus* L.) and the long-eared hedgehog (*Hemiechinus brachyotis* Sat.). *Izv. AN Azerb. SSSR. Ser. biol. i med. nauk* no. 12:39-46 '61. (MIRA 17:5)

ZAIKOVA, S.I.

History of the study of the representatives of fossil Erinaceidae
in Azerbaijan and the U.S.S.R. Izv. AN Azerb. SSR. Ser. geol.-
geog. nauk no.1119-126 '64. (MIRA 18:6)

ZAIKOVA, S. L.

Remains of the hedgehog (*Erinaceus europaeus* L.) from the Neolithic in the Crimea. Dokl. AN Azerb. SSR 16 no.2:161-165 '60.
(MIRA 13:8)

1. Institut zoologii AN SSSR. Predstavleno akademikom AN Azerbaydzhanskoy SSR A.N. Derzhvinym.
(Crimea—Hedgehogs)

ASADOV, S.M.; KOLESNICHENKO, M.L.; ZAIDOVA, U.G.

Study of the helminths of camels in Azerbaijan. Trudy Inst. zool.
AN Azerb. SSR 24:35-42 '65. (MIRA 18:5)

ZALESKI, Boguslaw; RUDOBIELSKA, Maria

A case of partial gigantism. Pat. Pol. 16 no. 1109-112 Ja-Mr'65.

1. Z Kliniki Chorob Dzieci Akademii Medycznej w Bialymstoku
(Kierownik: zast. prof. lek. med. Andrzej Kanski).

ZAIGRAYEV, S.A.

Nitrogen and potassium requirements of corn in ontogeny. Nauch.
dokl. vys. shkoly, biol. nauki no.4:133-135 '64. (MIRA 17:12)

1. Rekomendovana kafedroy fiziologii rasteniy Leningradskogo
sel'skokhozyaystvennogo instituta.

ZAIGRAYEV, S.A.

Nitrogen requirements of corn. Agrokhimia no.4:144-149 Sp '64.
(MIRA 17-20)

L. Leningradskiy sel'skokhozyaystvennyy institut, kafedra
fiziologii rasteniy.

ZAIGRAYKIN, M.I., inzh.; OBUKHOV, L.M., inzh.; TITKIN, H.M., starshiy dorozhnyy
baster

More about removal from switches. Put' 1 put.khoz. 4 no.11:16-19
H '60. (MIRA 13:12)

(Railroads—Snow protection and removal)

ZAIGRAYEV, V.

Efficiency in disseminating military information. Voen. znar.
35 no.8:7 Ag '59. (MIRA 12:12)

1. Predsedatel' komiteta pervichnoy organizatsii Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu zavoda prokatnykh valkov, Luganskaya oblast.
(Military education)

TURSUNOV, G. (RIBAZA - Tashkent); POPOV, V. (Ashkhabad); ZAIGROVA, S.
(Ryazan'); KAYGORODOVA, Yu. (RA9CES - Sverdlovsk)

Youth is on the air. Radio no.1:24-25 Ja '60.
(MIRA 13:5)
(Radio clubs) (Amateur radio stations)

ZAİKA, A.A.

120-4-22/35

AUTHORS: Zaika, A.A. and Litvak, V.I.
TITLE: An Automatic Polarimeter (Avtomaticheskiy polyarimetr)
PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.4,
pp. 78 - 81 (USSR).

ABSTRACT: The operation of the polarimeter (type CA-1) is based on the relationship between the rotation ($\Delta\psi = \alpha lc$) of the plane of polarisation of light and the concentration c of the investigated optically-active material for given values of the thickness l of the solution layer and the specific rotation α of the material.

Fig.1 shows the block diagram of the polarimeter. Light from a 100 W electric lamp passes through a double-lens condenser to a polariser. The intensity of the plane polarised light is caused to vary sinusoidally (50 c.p.s.) by a magnetic-optical modulator and passes through a light filter, a polarimetric tube with the investigated substance, a quartz compensator, and analyser, and then to a photo-cell which converts the light intensity variations into an alternating current. The compensator consists of two quartz prisms: one fixed (left-hand rotation), and the other movable (right-hand rotation). To correct for refraction, a glass prism is inserted between the two quartz prisms.

Card 1/2

An Automatic Polarimeter.

120-4-22/35

The polariser and the analyser are made from polaroid film so that in the absence of an optically-active solution in the polarimetric tube, no light reaches the photo-cell. When the solution is introduced between the polariser and the analyser, light falls onto the photo-cell and its intensity depends on the angle of rotation of the plane of polarisation due to the solution. This rotation is compensated by automatic rotation of the movable quartz prism, which is servo-controlled by the phase and frequency of the photo-cell output current. The reading is obtained from projection of the scale which is directly attached to the movable prism. Fig. 3 shows the light intensity and photo-cell current oscillations for different rotation angles. Fig. 4 is a photograph of the apparatus. Constructional and operating details are given. The instrument measures from -40 to $+100$ S ± 0.1 S. There are 3 figures and 2 Slavic references.

ASSOCIATION: Kiev Control-measuring Equipment Factory
(Kiyevskiy zavod kontrol'no-izmeritel'nykh priborov)
SUBMITTED: January 31, 1957.
AVAILABLE: Library of Congress
Card 2/2

ZAIKA, A.A., kand.ekonomicheskikh nauk; SHCHAVELEV, D.S., doktor tekhn.nauk
(Leningrad)

Methodology for determining the economic efficiency of hydroelectric
power stations. Elektrichestvo no.7:76-79 J1 '62. (MIRA 15:7)

1. Kiyevskiy ordena Lenina politekhnicheskii institut (for Zaika).
(Hydroelectric power stations)

ZAIIKA, A.A., kand. ekonom. nauk; KORYTNYI, S.A., inzh.; SHMUSHKIN, M.S.

Improvement of the keeping of production records and calculation
of production costs in electric power enterprises. Elek. sta.
34 no.5:86-88 Ky '63, (MIRA 16:7)

(Electric power production—Accounting)

VOLOBRINSKIY, S.D., kand.tekhn.nauk, dotsent; ZAIKA, A.A., kand.ekonca.
nauk, dotsent

A scientific and technical conference on present trends and the
technological and economic calculation methods in designing
industrial power distribution networks. Elektrichestvo no.3;
94-96. Mr '64. (HRA 17:4)

ZAİKA, A.A., kand. ekonom. nauk

Evaluation of power not delivered to consumers due to breakdown
of distribution systems. Prom. energ. 20 no.2:22-26 '65.

(MIRA 18:4)

ZAICA, A.A.; ZHIZHCHEKNO, F.N.

Measures undertaken to improve the working conditions of the operating staff of thermal electric power plants. Energy. 1. elektrotekh. prom. no.3:69-72 J1-S '62. (MIRA 18:11)

1. Kiyevskiy politekhnicheskiy institut (for Zaika). 2. Kiyevskaya teploelektrotsentral' No.3 (for Zhizhchenko).

ZAIRA, A.A., kand. ekonom. nauk

Special features and operational methods of a volunteer design
bureau and economic analysis in electric power plants, Elek.
sta 36 no.4:43-45 Ap '65. (MIRA 18:6)

KOBIN'OK, Yu.D. [Kobyn'ok, IU.D.]; ZAIKA, A.A.

Refractometer for measuring dough moisture. Khar. proc. no. 1;
30-31 Ja-Mr '65. (MIRA 18:4)

ZAIKA, A. A.

115-5-30/44

AUTHORS: Zaika, A.A., and Litvak, V.I.

TITLE: Objective-Glass Polarimeter with Automatic Adjustment (Субъективный поляриметр с автоматической настройкой)

PERIODICAL: "Izmeritel'naya Tekhnika", No 5, Sep-Oct 1957, pp 69-72 (USSR)

ABSTRACT: The subject photoelectric objective-glass polarimeter with automatic setting, for use in the sugar industry, was designed by Kiyev Plant of Control Gages (Kiyevskiy zavod kontrol'no-izmeritel'nykh priborov) on suggestion of Engineer V.I. Kudryavtsev. The first unit of this instrument, called "sakarimetr CA" was shown at the 1956 All-Union Industrial Exhibition. A second improved model, demonstrated at the 1957 All-Union Industrial Exhibition, is now being produced by the same Kiyev plant. The design and operation of the instrument is described in full detail. It represents a photoelectronic optical device, the optical portion of which consists of a polarimeter and a projection system, and the electrical portion consists of an indicator, a follow-up system, an amplifier, feed blocks, and a reversible electric motor. The scale is graduated in degrees of the international sugar scale. The readings show directly the weight per cent of saccharose in the investigated medium. The measurement

Card 1/2

Objective-Glass Polarimeter with Automatic Adjustment

115-5-30/44

error is claimed to be less than with the existing conventional visual instruments. Its high sensitivity (0.05° S, or 0.017 circular degree) and accuracy make the instrument applicable also for checkups of other saccharimeters, of quartz tablets, or of cover glasses of polarimeter tubes for absence of inner stresses.

The article contains 1 photograph and 2 diagrams.

AVAILABLE: Library of Congress

Card 2/2

ZAIKA, A.A.; LITVAK, V.I.

Industrial optical saccharimeter with automatic adjustment. Sakh.
prom, 31 no,5:25-27 Ky '57. (MLBA 10:6)

1. Kiyevskiy zavod kontrol'no-izmeritel'nykh priborov.
(Saccharimeter)

ZAIIKA, A.A.; LITVAK, V.I.; MSPHTUYK, N.Ya.

Mercury-arc luminaries used in refractometry. Izv.tekh. no.6:83
(MIRA 11:12)

H-D '58.

(Refractometry) (Electric lighting, Mercury vapor)

ZAICA, A.A.; LITVAK, V.I.; SHAPIRO, A.Ya.

Induction level regulator. Sakh. prom. 32 no.11:44-46 II '58.
(MIRA 11:12)

(Kiev--Liquid level indicators)

ZAIKA, A.A.; LITVAK, V.I.; SHAPIRO, A.Ya.

The BU-type induction liquid-level regulator used in vessels.
Bul.tekh.-ekon.inform. no.12:47-48 '58. (MIRA. 11:12)
(Liquid level indicators)

ZAIIKA, A.A.; LITVAK, V.I.; SHAPIRO, A.Ya.

Induction regulator of liquid level in the apparatus. Kons.1 ov.prom.
14 no.2:25-26 P '59. (MIRA 12:3)

1. Kiyevskiy zavod radiopriborov (for Zaika). 2. Kiyevskiy zavod
kontrol'no-izmeritel'nykh priborov (for Litvak, Shapiro).
(Liquid level indicators)

SOV/115-58-6-33/43

AUTHORS: ~~Zaika, A.A.~~ Litvak, V.I., Epshteyn, H.Ya.

TITLE: A Mercury Illuminator in Refractometry (Rtutryy osvetitel' v refraktometrii)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 6, p 83 (USSR)

ABSTRACT: A quantitative analysis of solutions is mostly made by the refractometric method, in which the refraction index of the solution depends on the quantity of dry matter dissolved in it. The refraction index depends also on the wave length of the monochromatic light used. Usually, the spectral line of sodium is employed. For higher precision a shorter wave length such as that of mercury is used. A mercury lamp has been developed which is contained in a glass bulb and is equipped with a light filter for the mercury line. The lamp is of the type PRK-4. The device indicates dry substances in solutions with an accuracy of 0.1 %. There is 1 table.

Card 1/1

ZAIKA, A.A.; SH'KOV, V.M.

Conference on economics of heat and electric power production.
Elek.sta. 29 no.8:94-96 Ag '58. (ICIRA 11:11)
(Power engineering--Congresses)

ZAIKA, G. A.

AD P - 3237

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 22/30

Author : Zaika, G. A., Eng.

Title : Direct starting of a synchronous electric motor

Periodical : Energetik, 8, 24-25, Ag 1955

Abstract : The author describes the arrangement for direct starting of a 1300-kva, 6000-v, 1500-rpm synchronous motor of the ISP-116/49 type, used to drive an exhaustor of the D-3500-13 type. An autotransformer of the TPM-2700/6 type is used. Deficiencies of the original arrangement were removed and a new arrangement developed. Two connection diagrams.

Institution : None

Submitted : No date

ЗАКА, I.

Tunnel oven at the Khmel'nitskii Plant. Stroitel'stvo, izdel.i konstr.
2 no.6:18-19 Je '56. (MLRA 9:8)

1. Zaveduyushchiy teplotekhnicheskoy laboratoriyey TsSUISH Mini-
sterstva promyshlennosti stroitel'nykh materialov.
(Kilns)

ZAIIKA, I., kand. tekhn. nauk

Construction and start-up of annular kilns and tunnel kilns
without frames. Sil'. bud. 12 no.1:11-12 Ja '62. (MIRA 16:12)

ZAJKA, I., kand. tekhn. nauk

Increasing productivity of ring kilns and the quality of
products. Sil' bud. 12 no. 5:15-17 My '62. (MIRA 16:4)

(Kilns)