

MICHAL, V; SVOBODA, M.

Czechoslovakia

Institute of Work Hygiene and Diseases -- Prague
(Ústav hygieny práce a chorob z povolání -- Praha);
Chief: J. TEISINGER, Prof. Dr; Institute of
Hematology and Blood Transfusion -- Prague (Ústav
hematologie a krevní transfúze -- Praha); Director:
J. HOŘEJŠÍ, Prof. Dr. Dr. Sc. - (for all)

Prague, Rozhledy v tuberkulóse, No 10, 1962, pp 735-
739

"Radiation Dosage in Chest Photofluorography with
Film Size 100X100 mm."

MICHAL, V.; SVOBODA, M.

Radiation dosage in radiophotographic cholecystography. Cesk. rentgen.
16 no.6:414-417 D '62.

1. Ustav hygieny prace a chorob s povolani v Praze, reditel prof. dr.
J. Teisinger, DrSc. Ustav hematologie a krevni transfuze v Praze, reditel
prof. dr. J. Horejsi, DrSc.

(CHOLECYSTOGRAPHY)

(RADIOMETRY)

CZEC 0010/A/1A

MICHAL, V.

Institute of Work Hygiene and Occupational Diseases
(Ustav hygieny prace a chorob z povolani), Prague

Prague, Ceskoslovenska stomatologie, No 3, 1964, pp 203-
205

"The Possibility of Reducing X-Ray Dosage in Dental
X-Ray Apparatuses."

HEJHAL, L.; FIRT, P.; MICHAL, V.; HEJNAL, J.

On some problems in contemporary arterial surgery. Rozhl. chir. 42
no.1:3-7 Ja '63.

1. Ustav klinické a experimentální chirurgie v Praze, reditel prof.
dr. B. Spacek, DrSc.
(ARTERIES) (VASCULAR SURGERY)

MICHAL, V.; HEJNAL, J.; HEJHAL, L.; FIRT, P.

Surgery of the arteries of the extremities. Rozhl. chir. 42 no. 1:
8-13 Ja '63.

1. Ustav klinické a experimentální chirurgie v Praze, reditel prof.
dr. B. Spacek, DrSc.

(VASCULAR SURGERY) (ARTERIOSCLEROSIS) (EXTREMITIES)
(INTERMITTENT CLAUDICATION)

FIRT, P.; MICHAL, V.; HEJNAL, J.; HEJHAL, L.

Contribution to the surgery of aortic iliac occlusions. Rozhl. chir.
42 no.1:17-27 Ja '63.

1. Ustav klinické a experimentální chirurgie v Praze, reditel prof.
dr. B. Spacek, DrSc.

(AORTA)

(ILIAC ARTERY)

(VASCULAR DISEASES)

(VASCULAR SURGERY)

(BLOOD VESSEL TRANSPLANTATION)

HEJNAL, J.; HEJHAL, L.; FIRT, P.; MICHAL, V.

Diagnosis and surgical treatment of vasorenal hypertension. Rozhl. chir.
42 no.1:44-54 Ja '63.

1. Ustav klinicke a experimentalni chirurgie v Praze, reditel prof.
dr B. Spacek, DrSc.

(HYPERTENSION RENAL) (ANGIOGRAPHY) (RENAL ARTERY OBSTRUCTION)
(SPLENIC ARTERY)

MICHAL, V.a. KOCANDRLE, V.

Prevention and therapy of infection in reconstructive operations on the arteries. Rozhl. chir. 42 no.3:181-186 Mr '63.

1. Ustav klinické a experimentální chirurgie v Praze, reditel prof. dr. B. Spacek, DrSc.

(VASCULAR SURGERY) (BLOOD VESSEL TRANSPLANTATION)
(POSTOPERATIVE COMPLICATIONS) (ARTERIES)
(SURGICAL WOUND INFECTION)

BEK, V.; MICHAL, V.

Apropos of the gradual dosage following irradiation of angioma in children. Importance of dosimetric studies in irradiation with van der Ploot's apparatus. Cesk. rentgen. 18 no.1:11-19 Ja'64.

1. Radiologická klinika fakulty všeobecného lékařství KU v Praze, (prednosta: prof.dr.V.Svab, DrSc.) a Ústav hygieny práce a chorob z povolání v Praze, (ředitel: prof.dr.J. Teissinger, DrSc.). Odbor radiační hygieny.

*

GEYNAL, Ya. [Hejnai, J.]; GEYGAL, M. [Hejgal, M.]; RILK, S.; MIKHAL, V.
[Michal, V.]

Surgical treatment of vasorenal hypertension. Klinicheskiy zhurnal
no.7:68-75 JI '64.

1. Institut klinicheskoy i eksperimental'noy khirurgii. dir. -
chlen-korrespondent Chekhoslovatskoy akademii nauk prof. F.
Shpachek [Spacek, B.], Praha.

FIET, P.; MICHAL, V. Mikrochirurgie, 1974, 1, 1, 1-10.
[Hejral, 1.]

Reconstructive surgery in aneurysms of the
abdominal aorta and iliac arteries. Chirurgia, 1974,
31, 104.

1. Institut klinichesky lecheniya i diagnostiki
onkologicheskoy bolezni, Moskva, SSSR.
Korrespondent: Inzhenerovskiy bulvar, 15, prof. A.
Spartak (Spartak, A.), Moskva.

HEJHAL, L.; HEMANAL, J.; FINE, P.; MICHAL, V.

Preventive administration of penicillin in surgical reconstruction of arteries. Rozn. chir. 44 no.5:301-305 My'65.

1. Ústav klinické a experimentální chirurgie v Praze (reditel: prof. Dr. E. Špaček, DrS.).

SULCEK, Z.; DOLEZAL, J.; MICHAL, Z.

Rapid analytic methods for metals and mineral raw materials. XII.
Determination of traces of beryllium in mineral waters and mineral
raw materials. Coll Cz chem 26 no.1:246-254 Ja '61.
(EEAI 10:9)

1. Zentralinstitut für Geologie, Institut für analytische Chemie,
Karls-Universität, und Institut für Erzforschung, Prag.

(Metals) (Beryllium) (Mineral waters)

MICHALAK, Brunon, inz.

Bathroom boilers with thermobimetallic safety device. Gaz
woda techn sanit 37 no.8:265 Ag '63.

1. Construction Furniture and Plumbing Manufacture, Poznan.

KURATOWSKA-LEWARTOWSKA, Zofia; MICHALAK, Kligia

Research on the humoral erythropoietic factor in erythremia. Polski tygod. lek. 13 no.35:1341-1344 1 Sept 58.

1. Z Oddzialu Chorob Wewnetrznych Instytutu Hemantologii; kierownik: doc. dr. E. Kowalski i z Zakladu Fizjologii Czlowieka Akademii Medycznej w Warszawie; k kierownik: prof. dr Fr. Czubalski. Warszawa, ul. Chocimska 5 Instytut Hematologii.

(POLYCYTHEMIA VERA, blood in erythropoietic factor, assay in rats (Pol))

(ERYTHROCYTES

erythropoietic factor in blood of patients with polycythemia vera, assay in rats (Pol))

KURATOWSKA, Z.; LEWARTOWSKI, B.; MICHALAK, E.

Studies on the production of erythropoietin by the isolated hypoxic kidney. Bul Ac Pol biol 8 no.2:77-80 '60. (EEAI 10:4)

1. Laboratory of Clinical Biochemistry, Institute of Haematology, Warsaw and Laboratory of Human Physiology, School of Medicine, Warsaw
Presented by F.Czubalski.

(ERYTHROPOIETIN)
(KIDNEYS)

KURATOWSKA, Zofia; KOWALSKI, E.; LIPINSKI, B.; MICHALAK, Eligia

Preparation of the erythropoietic factor from human blood plasma.
Acta biochim. polon. 9 no.3:189-197 '62.

1. Department of Health Protection, Institute of Nuclear Research,
Warszawa.

(ERYTHROCYTES) (HEMATOPOIESIS)

MICHALAK, H.

Industrial methods of cutting, p. 8. (CZIEZ, Lodz, Vol. 6, no. 1, Jan. 1955.)

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

MICHALAK, H.

Standardization of clothing elements and its influence on the fulfillment of the production tasks. p. 39.
ODZIEZ, Lodz. Vol. 7, no. 2, Feb. 1956.

SOURCE: East European Accession (EEAL) Library of Congress
Vol. 5, no. 8, August 1956.

MICHAŁ, JERZY

Trzmielina; krzew (utajerkow). Warszawa, Państwowe Wydawn. i Drukarnia, 1952. 63 s. [w języku polskim; a gutta-percha shrub]

1952

SC: Monthly List of East European Accessions (and) etc. Vol. 4, No. 1, October 1952, encl.

MICHALAK, J.

Spindle tree, the rubber-producing bush. p. 21. (LAS POLSKI. Vol. 26, no. 3, Mar. 1952.

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

SKUBISZEWSKI, Feliks; MISIUNA, Pawel; MICHALAK, Jerzy; OLEWINSKI, Tadeusz

Prostatic adenoma. Pol. tyg. lek. 19 no.28:1094-1096
13 - 20 J1'64

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Lublinie;
kierownik: prof. dr. med. Feliks Skubiszewski.

KUBIAK, Marian; ROGALINSKI, Kamil; MICHALAK, Jerzy

Changes in the physical and mechanical properties of poplar wood (*Populus marilandica* Bosc.) under the influence of *Poria vaporaria* (Pers/Fr.) fungus. Sylwan 106 no.3:25-39 '62.

ROSSINSKI, Boleslaw; JESKE, Tadeusz; MICHALAK, Jerzy (Lodz)

Experimental analysis of the form of slip surfaces with
consideration of the reaction of cohesionless soils. Archiw
inz lad 8 no.2:203-217 '62.

OLSZEWSKA, Maria J.; MICHALAK, Krystyna

Influence of kinetin upon the quality and disposition of mitoses in the radical meristem of *Allium cepa*. *Nauki matemat przyrod Lodz* no.12:101-106 '62.

1. Katedra Anatomii i Cytologii Roslin, Uniwersytet, Lodz.

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MICHALAK, Mieczyslaw

Amendments in the rehabilitation system for eye invalids in Poland.
Praca zabezp społ 4 no.1:31-33 '62.

1. Prezes Zarzadu Glownego Polskiego Zwiazku Niewidomych.

MICHAEL, S.

1
②
1-RM

11886 (Longitudinal Levels of Cesium-Meter Counter With
Glass Cathodes) Etalonnage des tubes des comptages GM
à cathodes en verre; E. Michel, R. Marquet, and A. Tardif
in *Acta Physica Polonica*, v. 11, no. 4, 1952, p. 143-148.
Comparison of Mono type with counters having internal metal
cathode. Graphs, diagram. 7 ref.

RM 1-2A

Michalak, S.

Handwritten: after
C.R. - RML

POL.

537.542

2306. On the lengthening of the plateau of Geiger-Müller counters with glass cathodes. S. MICHALAK, B. MOWCZAN AND A. ZAWADZKI. *Acta Phys. Polon.*, 13, No. 2, 135-9 (1954) in French.

Gives, in considerable detail, counting characteristics for Maze counters (external cathode). The effects of temperature (methylal-argon fillings were used), and circuit resistance are demonstrated.

J. D. CRAMER

Handwritten: RML

MICHALAK,

POLAND/Nuclear Physics - Installations and Instruments.
Methods of Measurement and Research.

C-2

Abs Jour : Ref Zhur - Fizika, No 4, 1957, 8531

Author : Michalak, S., Zawadzki, A.

Inst : University of Lodz, Poland.

Title : Charge in the Pulse as a Function of the Overvoltage of
a Geiger-Mueller Counter with Metallic and Glass Cathode.

Orig Pub : Acta phys. poton., 1956, 15, No 1, 63-70

Abstract : The purpose of the work is determine for Geiger-Mueller
counters the coefficient proportionality (K) between
the magnitude of the charge in the pulse and the excess
voltage above threshold. From the Wilkinson theory it
follows that the above coefficient can be represented
in the form $K = AC$, where C is the capacitance of the
counter, A a constant depending on the diameter of the
wire anode of the counter. It was found that this de-
pendence is correct both for counters with internal
metallic cathodes, as well as for counters with external

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cathodes.

STANISLAW MICHALAK

POLAND / Chemical Technology, Chemical Products and Their Application. Part 2, - Ceramics, Glass, Binders, Concretes. - Binders, Concretes and Other Silicate Building Materials.

ii-13d

Abs Jour : Ref. Zhur. Khimiya, No 4, 1958, 12106.

Author : Bronislaw Mankowski, Stanislaw Michalak.

Inst : Not given

Title : Light Concretes.

Orig Pub : Mater. budowl., 1957, 12, No 7, 210 - 215.

Abstract : The basic characteristics of light concretes (LC) and their advantages are discussed. A detailed review of the development of LC production in Poland is presented. Mean annual and monthly data concerning the property indices (strength and specific weight) of produced LC-s are quoted.

Card 1/2

MICHALAK, Jerzy

Gerontological problems in surgery. wiad. lek. 18 no.10:
835-837 15 My '65.

1. Z II Kliniki Chirurg. AM w Lublinie (Kierownik: prof.
dr. med. F. Skubiszewski).

MICHALAK, Stanislaw, mgr

Conference on the subject of the northern part of the Raciborz
region. Problemy 19 no.4:269 '63.

L 41070-65 EWT(1)
ACCESSION NR: AT5005431

P/2538/64/000/017/0053/0057

AUTHOR: Michalak, S. (~~Mikhalyak, S.~~); Pafomov, W. E. (Pafomov, V.)

16
14
8+1

TITLE: Comments on radiative transition²⁾ in the visible portion of the spectrum

SOURCE: Lodz. Uniwersytet. Zeszyty naukowe. Seria II. Nauki matematyczno-przyrodnicze, no. 17, 1964. Fizyka, 53-57

TOPIC TAGS: radiative transition, particle motion, generated field, angular distribution, dielectric constant, infrared spectrum region

ABSTRACT: Theoretical principles of radiative transition in the visible portion of spectra are discussed in connection with the author's dissertation on the subject (Michalak, Stanislaw. Kandidatskaya dissertatsiya, NIIyAF MGU, Moscow, 1961). The motion of a particle in vacuum and in a medium is formulated and the relative contribution to radiation on the part of the field resulting from the particle motion in a medium is discussed. The data are applied to radiative transition in silver and in an ideal metal. The results for these two metals show that the increase in radiation intensity is due to the field that resulted from the particle motion in the metal. The relative contribution of this field to the radiation de-

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L 41070-65

ACCESSION NR: AT5005431

2

creases with increase in the dielectric constant and the difference in angular distribution for the two metals disappears. These results are presented graphically. Orig. art. has: 8 formulas and 1 figure.

ASSOCIATION: [Michalak] Katedra Fizyki Doswiadczalnej; Uniwersytetu Lodzkiego
(Department of Experimental Physics, Lodz University); [Pafomov] Instytut Fizyki
Akademii Nauk ZSRR, Moscow (Institute of Physics, Academy of Sciences SSSR)

SUBMITTED: 00

ENGL: 00

SUB CODE: NP

NO REF SOV: 003

OTHER: 000

Card 2/2

MICHALAK, Stanislaw; RUTKOWSKI, Jerzy

Apparatus for studies of transition radiation. Nauki matem przyrod Lodz no.17:59-67 '64.

Possibility of using the sound-tube of an ionizing manometer to measure the initial vacuum (of the range 10^{-1} - 10^{-3} Tr). Ibid.:77-78

1. Department of Experimental Physics, University, Lodz.

MICHALAK, Stanislaw

Measuring the stream of electron beams. Nauki matematyczne przyrod
Lodz no.17:69-71 '64.

1. Department of Experimental Physics, University, Lodz.

L 41071-65 EWT(d)/EEC(k)-2/EEC-4 Po-4/Pq-4/Pg-4/Pk-4/P1-4
ACCESSION NR: AT5005432 P/2538/64/000/017/0073/0075

AUTHOR: Michalak, S. (Mikhalyak, S.); Rutkowski, J. (Rutkovskiy, Ye.);
Stepinski, M. (Stempinskiy, M.)

46

45

B+1

TITLE: Electrophotometer for measuring weak light currents 9M

SOURCE: Lodz. Uniwersytet. Zeszyty naukowe. Seria II. Nauki matematyczno-
przyrodnicze, no. 17, 1964. Fizyka, 73-75

TOPIC TAGS: electrophotometer, photometer, multiplier, amplifier, full wave rec-
tifier, resistance, microammeter, bridge circuit, dark current

ABSTRACT: The photometer consists of a multiplier and a d-c linear amplifier. The multiplier, possessing a constant amplification factor for a wide range of photocurrents and a dark current of less than 10^{-9} A, is powered by a high-voltage stabilized ZWN 2800-4 feeder. The connections of the amplifier in a bridge arrangement with nonsymmetric input are shown in Fig. 1 of the Enclosure. The working point of tube E88CC working in the amplification range is selected with the aid of potentiometers R_1 and R_2 which also zeroize galvanometer G. Resistances $R_3 = 0.5 \text{ M}\Omega$, $1 \text{ M}\Omega$, and $5 \text{ M}\Omega$ produce amplifications of $930 \pm 5\%$, $1760 \pm 7\%$, and

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2

L 41071-65

ACCESSION NR: AT5005432

9100 + 7%, respectively. The connection of 1540 Ω and 670 Ω resistances in parallel with the microammeter reduces the sensitivity of galvanometer G 3.10 and 5.24-fold, respectively. The amplifier possesses a constant amplification factor for currents from 10^{-4} to 10^{-10} A. The amplifier feeder, set in a full-wave rectifier, is stabilized electronically and maintains the power at 150 V with an accuracy of about 0.1%. The total amplification of the electrophotometer amounts to about 5000 A/lumen. The defect of this arrangement lies in an instability of the zero point, of the order of $2 \cdot 10^{-10}$ A/hr. Orig. art. has: 2 figures.

ASSOCIATION: Katedra Fizyki Doswiadczalnej Uniwersytetu Lodzkiego (Department of Experimental Physics, Lodz University)

SUBMITTED: 00

ENCL: 01

SUB CODE: EC

NO REF SOV: 003

OTHER: 001

Card 2/3

ACC NR: AP6018647 SOURCE CODE: PO/0045/66/029/001/0065/0070

AUTHOR: Michalak, S.; Rutkowski, J.

ORG: Department of Experimental Physics, University of Lodz, Lodz

TITLE: Experimental investigation of the transition radiation from 6-23-keV electrons entering normal metal surfaces

SOURCE: Acta physica polonica, v. 29, no. 1, 1966, 65-70

TOPIC TAGS: metal surface, transition radiation, electron bombardment

ABSTRACT: The results of experimental investigation have been presented for transition radiation originating on surfaces of metal targets (Ag, Al, Au, Cd, Cr, Cu, Ni, Pt, Sn) bombarded with 6-23-keV electrons. The characteristics of the transition radiation have been measured and the results compared with the Frank-Ginsburg theory, and good agreement has been found. The characteristics of the transition radiation in the visible part of the spectrum have been measured with a new specially designed apparatus. The results of investigation are also

Card 1/2

L 36100-66

ACC NR: AP6018647

confirmed the conclusions of S. Michalak regarding the influence of
secondary effects (Dissertation, Moscow State University, 1961).
Orig. art. has: 8 figures and 2 formulas. [Based on authors' abstract
(NT)]

SUB CODE: 20/
OTH REF: 006

SUBM DATE: 23Jul65/

ORIG REF: 005/

SOV REP. 35.

Card 2/2

MICHALAK, TADEUSZ.

Jastrzebie zdroj i okolice. Warszawa, Sport i Turystyka, 1955.

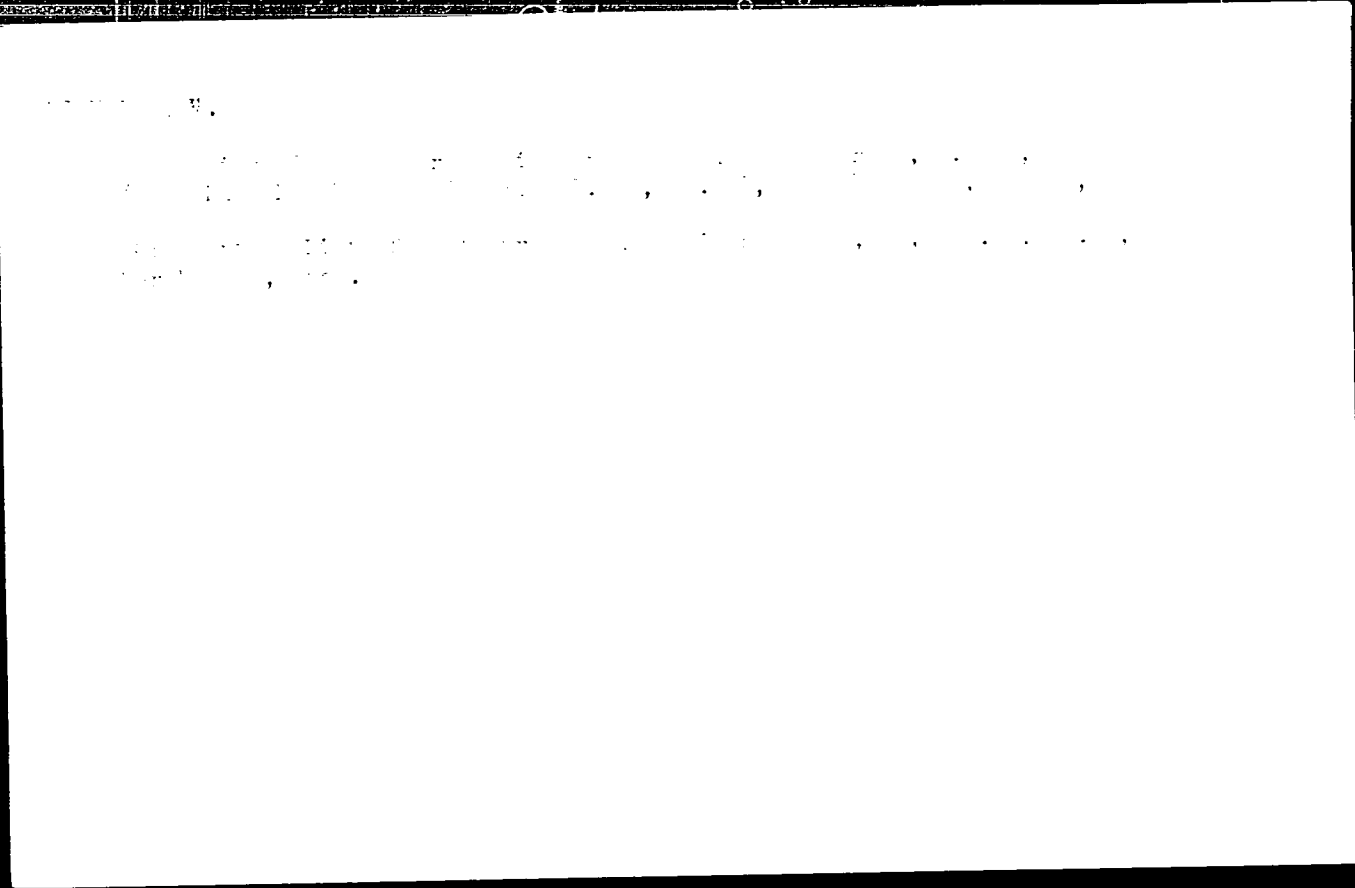
43 p. (Jastrzebie Zdroj and vicinity. map)

So. East European Accessions List Vol. 5, No.1 Jan. 1956

MICHALAK, W.

"Problems of Relay Protection." p.285
(PRZEGLAD ELEKTROTECHNICZNY Vol. 29, no. 7, July 1953 Warszawa, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.



D
MICHALAK, Wladyslaw; WICINSKI, Ryszard

Further observations and results of inducing labor. Gin.polska
31 no.4:463-468 J1-Ag '60.

1. Z Kliniki Położnictwa i Chorob Kobietych A.M. w Białymstoku
Kierownik: prof. dr med. S.Soska
(LABOR, INDUCED)

MICHAJAN, L.

MICHAJAN, L. Problem of the traffic capacity of railroad stations. p. 23.

Vol. 7, No. 9, Sept. 1954

TECHNICAL JOURNAL

TECHNOLOGY

Warszawa, Poland

See East European Accession, Vol. 5, No. 5, May 1956

MICHALAK, Z.

New kind of passenger cars on the Polish State Railroads. p.227
(PRZEGLAD KOL. JOWY, Vol. 9, No. 6, June 1957, Warsaw, Poland)

SO: Monthly List of East European Accessions (FEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

CZYZEWSKA, Janina, doc. dr. med.; CHABUDZINSKA, Stefania; DADJOWA,
Janina; MICHALAK-BELDA, Janina; RABENDA, Celina; RUDKOWSKI,
Zbigniew

Clinical forms of skin complications of smallpox vaccination.
Pediat. Pol. 40 no.2:121-128 F '65

1. Z Kliniki Chorob Zakaznych Wieku Dzieciecego Akademii
Medycznej we Wroclawiu (Kierownik: doc. dr. med. J. Czyzewska).

MICHALAK-STARZYK, Jadwiga (Kielce)

Technological and economic aspects of the production of distilled
vinegar by the method of submerged fermentation. Przem spoj 16 no.4:
21-29 Ap '62

MICHAEL A. C.

4, no. 1, Jan. 1954) East

(Zememeri. Prata. Vol.

MICHALCAK, Ondrej, doc., inz.

Present state and outlook of the development of surveying engineering studies at the Slovak Higher School of Technology in Bratislava. Geod kart obzor 9 no.12:313-316 D'63.

TCM

experiences with chronometers at the observatory of the Slovak Institute
of Technology in Bratislava. p. 167. PAMPHLET (Slovak title: *Skúsenosti
nakoľatstvo technickej literatúry*) Vol. , no. 3, par. 1954.

Source: East European Accessions List, Vol. 5, no. 3, September 1957

MICHALCIK, S

"Pavel Gal's Geodezia v stavebnictve (Geodesy in the Construction Industry);
a book review."

p. 90 (Kartograficky Prehled) Vol. 10, no. 2, June 1956
Prague, Czechoslovakia

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

KICHLIGAY, S.

New elements in the construction of theodolites.

1. 184. (MIRNA MACHA IFA I. IFA) (Praha, Czechoslovakia) Vol. 1, No. 6, Dec. 1957

SO: Monthly Index of East European Accession (DEAI) 10 Vol. 7, No. 4, May 1958

MICHALCAK, S.

Evolution of theodolites for direct measurements of coordinate differences. p. 51.
(Geodetický a Kartografický Obzor, Vol. 3, No. 3, Mar 1957, Praha, Czechoslovakia)

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

MITCHALGAK. S.

Pavel Gal's Zaklady meracskych a mapovacich prac (Principles of Surveying and Cartography); abook review.

P. 141 (Kartograficky Prehled. Vol. 11 No. 3 1957, Praha. Czechoslovakia)

Monthly Index of East European Accessions (EFAI) LC. Vol. 7, No. 2,
February 1958

MICHALCAK, S.

"The first theodolite with a glass disc."

p. 35 (Jemna Mechanika A Optika) Vol. 3, no. 1, Jan. 1958.
Prague, Czechoslovakia

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

*MICHALCÁK, S.*AUTHOR: Michalčák, S. (Czechoslovakia)

SOV/6-53-7-11 1

TITLE: Production of Surveying Equipment in Czechoslovakia
(Proizvodstvo geodezicheskikh priborov v Chechoslovaki)

PERIODICAL: Geodeziya i kartografiya, 1958, Nr 7, pp. 47-53

ABSTRACT: This is a historical survey of the production of surveying apparatus in Czechoslovakia. In 1945 a model of a 30-second repetition transit, the Meopta-Th 30 was developed by the manufacturing firm Meopta-Koshirzhe in Prague. Since 1946 it is mass-produced. In 1949 the level Meopta 30, which is designed for third class leveling was developed. It has hitherto been mass-produced. In 1955 the first Czechoslovakian optical transit T1^C was constructed. It is a universal instrument with a glass limb, an optical micrometer and an adjustable horizontal circle. It is designed to be used in angle measurements in transit lines, in the development of microtriangulation in surveying work and in tachymetric surveying. The instrument weighs 4.8 kg altogether. The distance by which the horizontal axis is leveled is 200 mm. When readings are taken under corresponding conditions the mean square deviation in the running of a line in one direction is $\pm 15^{\text{cc}}$.

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Production of Surveying Equipment in Czechoslovakia

SOV/6-58-7-11.1

The same firm is planning to build a transit instrument to comply with all modern requirements. At the Research Institute of Surveying, Topography, and Cartography in Prague some models of surveying equipment were built. For example the permanent heliotrop of the makers Kuchera. Last year a new firm came on the market with a model of a rotatable vertical rod to be used in optical distance measurements during mine surveying work. These are 6 figures of interest.

- 1. Mapping—Czechoslovakia
- 2. Geophysical surveying—Equipment
- 3. Theodolites—Design
- 4. Optical equipment—Production

Sur 2/2

MICHALCAK, S., inz.

Automatic leveling apparatus Breithaupt "Autom". Jemna mech
opt 5 no.2:69 F '60.

1. Katedra geodezie, Slovenska vysoka skola technicka, Bratislava.

MICHALCAK, Sv., inz.

New Hungarian geodesy instruments. Jemna mech opt 5 no.3:
94-97 Mr '60.

1. Slovenska vysoka skola technicka, Bratislava.

MICHALCAK, S., inz.

Precision test of the theodolite Zeiss Theo 030. Jemna mech opt 6
no.4:122-126 Ap '61.

1. Katedra geodezie, Slovenska vysoka skola technicka, Bratislava.

(Theodolites)

MICHALCAK, Sv., inz.

Remarks on determining the direction-finder error.
Jemna mech opt 6 no.10:302-305 0 '61.

1. Katedra geodezie, Slovenska vysoka skola technicka, Bratislava.

MICHALCAK, Svatopluk, inz.

The automatic surveyor's level MOM-MI-B3. Geod.kart obzor 8
no.8:155-157 Ag '62.

1. Katedra geodezie, Slovenska vysoka skola technicka,
Bratislava.

MICHALCAK, S., ins.

New surveyor's levels with automatic horizontal setting control.
Jenna mech opt 8 no.4:116-119, 123 Ap '63.

1. Katedra geodezie, Slovenska vysoka skola technicka, Bratislava.

MICHALČAK, Svatopluk, inž.

Present method for acceleration of leveling and increasing
its accuracy. Geod kart obzor 9 no.10:177-181 0 1963

1. Katedra geodzie, slovenska vysoká škola technická,
Bratislava.

MICHALCAK, Svatopluk, inz., CSc.

Evaluation of the telescopes of geodetic instruments. Geod.
kart obzor 9 no.11:306-309 N'63.

1. Katedra geodezie, Slovenska vysoka skola technicka,
Bratislava.

MICHALCÁK, RUD, Ing. CSO.

Problems of testing road test instruments. Temerín 1974.
no. 146-149. M/ 1974.

1. Slovak Higher School of Technology. Bratislava.

1 19301-66 SWT(d)/SWT(1)/SWC(k)-2
ACQUISITION NR: AP 9015, 73

02/0030/01/000/009/0270/0281

AUTHOR: Nicholok, S. (Engineer)

U
B

TITLE: Error in the vertical axis

SOURCE: *Jama mehanika a optika*, no. 9, 1964, 276-281

TOPIC TAGS: geographic survey

Abstract [Author's English summary, modified]: Analyzed is the position and movement of the vertical axis in a theodolite and their effect on the accuracy of measuring angles. Shown is the effect of errors created through the levelling and fluctuation of the vertical axis. Orig. art. has 2 figures and 16 formulas.

ASSOCIATION: Katedra geodesie SVST, Bratislava (Department of Geodesy SVST)

SUBMITTED: 00

ENCL: 00

SUB CODE: 00

NO REF SOV: 004

OTHER: 013

JPRS

47C
Card 1/1

MICHALCAK, Svatoslav, inz. (Sov.)

Activities of the Czechoslovak Scientific and Technological Society
in the West Slovakia region. Geod kart obzor 11 no. 175 SA 1961.

1. Slovak Higher School of Technology, Bratislava.

VELVART, J.; BOZIK, L.; MICHALCAKOVA, H.

Health condition of workers employed in the production of fural.
Pracovni lek. 14 no.4:186-179 My '62.

1. Klinika chorob z povolania, Bratislava, prednosta prof. MUDr. Milos
Nosai Neurologicka klinika v Bratislava, prednosta prof. MUDr. Jozef
Cernacek KHES v Banskej Bystrici, prednosta Dr. Vojtech Cmarko.
(FURANS toxicol) (INDUSTRIAL MEDICINE)

EXCERPTA MEDICA Sec 15 Vol 12/8 Chest Dis. Aug 59

1864. PROLONGED OBSERVATION OF BRONCHUS STUMP AFTER PNEUMON-
ECTOMY FOR LUNG CANCER (Russian text) - Michalchenko V. A.
Inst. of Roentgenol. and Radiol., Moscow - VOPR. ONKOL. 1958, 4/5
(579-584) Tables 2 Illus. 4

This is a clinical and radiological study of 60 patients who had been subjected to pneumonectomy for cancer. The examination included as a rule a bronchography combined with tomography and kymography. The contour of the bronchial stump is determined by the surgical technique, the appearance of ligature granulations, fistulas, recurrences and, mainly, by the presence of metastatic mediastinal lymph nodes. Histological study of the stump showed that tumour tissue at the site of ligature, if any, can be primary or secondary. Primary or true recurrences are very rare (1 out of 60 cases). Secondary invasion of the stump from mediastinal lymph nodes is more frequent (8 cases). Patients with a recurrence in the stump do not survive for more than 2 yr.

(V, 15, 16)

MAZAR, Jaroslav; VALASEK, Jaroslav; MATEJA, Frantisek. Technické studie
zprac: MIHALKOVA, T., PRONZOVA, B.; YLAZAROVA, M.

Průběh adaptace zařízení je experimentálně bur...
Shrom. ved. pos. odb. Fak. Karlov. Univ. Pr. 1. 770-289
1977.

1. 11. ...
(prehled: prof. 1970. V. ... , D. S. .).

MICHALEU,

RUMANIA/Chemical Technology - Synthetic Polymers, Plastics.

H.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 55717

Author : Mikhalku, Buzhini

Inst :

Title : Application of Radio Isotopes in Plastic and Glass
Technology.

Orig Pub : Ind. Usoara, 1957, 4, No 2, 68-72

Abstract : The action of radio isotope radiation on monomers and polymers is described, as well as the application of radioactive isotopes in rubber vulcanization, polymerization of polyvinyl chloride, in the studies of the effect of sodium hydroxide on glass, in the systematic investigation on Ca and Pb silicates, in the determination of B in glass, in devices used to determine and regulate the charge level in glass furnaces.

Card 1/1

33

MICHALCZEWSKI, Henryk, inż.

Putting the electric shunt point drives under control of the mechanical signaling arrangements. Przegl kolej elektrotech 10 [i.e. 15] no.10:293-299 0 '63.

MICHALCZEWSKI, Henryk, inż.

Section blocks as reversing points for commuter trains. Przegl kolej
elektrotech 15 no.5:132-135 My '63.

MICHALCZEWSKI, J.

① Yes

Meteorological Abst.
Vol. 4 No. 3
March 1953
Aqueous Vapor and
Hydrometeors

43-214 ✓ 551.576.36(438)
Michalczewski, Jerzy. Częstość występowania rodzajów chmur w Zakopanem.
[Frequency of forms of clouds at Zakopane.] Przegląd Meteorologiczny i Hydrologiczny,
1950-1951 117-122 1951. 2 tables. DWH. Cloud observations show that 1) Ac, Sc and
Ns clouds appear most frequently 2) the Cs, Ci, St and Cu + Cb less frequently and 3)
Cc clouds are very rare. Subject Headings: 1. Cloud frequencies 2. Cloud observations
3. Zakopane, Poland. --H. Tomczykowski

MICHALCZEWSKI, Jerzy

Michalczewski, Jerzy, "Fronty wtworne z dnia 25.V.1950 r.," (Secondary Fronts of 25 May 1950.) Przeegląd Meteorologiczny i Hydrologiczny, wars., 1950, 71-7, 1/5.

MICHAŁ ZEWSKI, JERZY

551.524.4:551.558.29:551.515.7

Ces

✓ B.1-235
 Michałzewski Jerzy, Przyczynki do znajomości rozmieszczenia inwersji w obszarach
wyżowych. [Contribution to the knowledge of an inversion in high-pressure areas.] Przegląd
Meteorologiczny i Hydrologiczny Warszawa, 6(1) 2: 79-80, 1953. 6s. DWE - A chart based
 on the results of aerological soundings carried out simultaneously at 19 European stations
 on Jan. 12, 1953, at the time when a high pressure area moved over the territory, showing the
 structure contours of the lower surface of the subsidence inversion. The meteorological situation
 is used for the study of the connection between the subsidence inversion and the disposition
 of pressure. It confirms the well known fact that subsidence inversions occur higher in the
 front part of a surface high pressure area than in its rear part. This shows that in the front
 part of the high pressure area and on its right and left sides there are favorable conditions
 for the development of convection clouds. On the other hand, these conditions decrease with
 the forward movement of the contrast and rear parts of the high pressure area because sub-
 sidence inversions lie low over the earth's surface. Subject Headings: 1. Subsidence inversions
2. Anticyclone structure. - A.M.P.

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Michalczewski, J.

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331.509.818:551.379.4
Michalczewski, Jerzy. *Meteorologiczna analiza powodzi z 10 i 11 maja 1951 r.* [Meteorological analysis of flood of May 10th and 11th, 1951.] *Przegląd Meteorologiczny i Hydrologiczny*, Warsaw, 6(3/4):107-113, 1953. 4 figs. DWB. A detailed analysis of atmospheric conditions over Europe before the flood and the following gradual development of the meteorological situation which caused the peculiar distribution of rainfall (much more precipitation on the northern outer mountain slopes than on the southern inner mountain slopes) is presented and shown on weather maps and graphs. The phenomena caused by an unusual convergence of circumstances could have been foreseen if the following aids had been used: carefully analyzed synoptic charts of Europe including the Mediterranean Sea; maps of thermobaric fields of the lower portions of the troposphere; results of aerological soundings in Hungary, Czechoslovakia and Poland and a map of 12 hour isallobars. *Subject Headings:* 1. Synoptic conditions for floods 2. Synoptic analysis 3. Floods, Poland (May 1951) 4. Rainfall distribution 5. Poland.—A.M.P.

MICHALCZEWSKI, J.

"Geostrophic scale. p. 3." (GAZETA OBSERWATORA), Vol. 6, no. 5, May 1953, Warszawa, Poland

So: Monthly List of East European Accessions L. C. Vol. 2, No. 11, Nov. 1953, Uncl.

WICHMANN, J.

"How a Hurricane Occurred in Poland on September 1, 1954."
Meteorological Journal, Warszawa, Vol. 63, No. 11, 1954, p. 1.

See Section European Accessions List, Vol. 1, No. 1, 1954, p. 1.

MICHALCZEWSKI, J.

"New Theory of the Origin of Pain", P. 10. (GAZETA, OBSERWATORIA, Vol. 7,
No. 9, Sept. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAI), 10, Vol. 4,
No. 1, Jan. 1956, Incl.

MICHALCZEWSKI, JERZY

3

V-10.3-241

551.521.11:551.576.2(438)

Michalczewski, Jerzy. *Ustosunkowanie i nastawienie Zakopanego.* [Cloud amount and duration of sunshine at Zakopane.] *Prace i Sprawozdania Instytutu Meteorologicznego i Hydrologicznego, Warszawa, 8(3/4):227-233, 1953.* 6 figs., 2 tables, 3 refs. English summary: p. 233. DWA, DLC—The peculiarity of the location of Zakopane in a triangular hollow is reflected not only by the thermal conditions, but also by its cloudiness and insolation. The author tries to explain, on the basis of sunshine and cloud amount data for 1924-1948, the characteristic phenomena and their alteration produced by air circulation and other dynamic forces. The study shows that the variability of sunshine duration from month to month and year to year is considerable. Tables and several graphs show the mean, maximum and minimum hours per year of sunshine and overcast, the number of clear and cloudy days, the yearly variation of insolation, etc. On the basis of a short series of observations taken in two different locations at Zakopane, the author discusses the respective direction of sunshine in different parts of the town and indicates the right direction in which the city should develop. *Subject Headings:* 1. Sunshine duration. 2. Cloudiness. 3. Zakopane, Poland.—A.M.P.

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August 3, 1959

MICHALCZEWSKI, J.

A graphic method of fixing the time of the appearance of fog. p. 6

GAZETA OBSERWATORA. P.I.H.M. (Instytut Hydriologiczno-Meteorologiczny)
Warszawa. Vol. 7, no. 13, 1957
Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959
Uncl.

MICHALCZEWSKI, J.

The Verkhoyansk cold pole. p. 8

GAZETA OBSERWATORA. P.I.H.M. (Instytut Hydr. logiczno-Meteorologiczny)
Warszawa. Vol. 7, no. 13, 1957
Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. 6, no. 6, June 1959
Uncl.

MICHALCZEWSKI, J.

The insolation and cloudiness in Zakopane in the years 1924-1948, p. 253.

Panstwowy Instytut Hydrologiczno-Meteorologiczny. WIADOMOSCI SLUZYNY HYDROLOGICZNEJ I METEOROLOGICZNEJ.
Warszawa, Poland. Vol. 6, no. 5, 1960

Monthly List of East European Accessions (EFAI) LC, Vol. 8, no. 7, July 1959

Incl.

MICHALEWICZ, J.

1971

Periodicals: ... AT ... Vol. 1, no. 2, p. 1-2

MICHALEWICZ, J. ... in vertical ...

Portly List of East European Academies (EMU) ...

MICHALCZEWSKI, Jerzy

American Tiros meteorological satellites. Przegląd geoliz
8 no.4:221-232 '63.

1. Państwowy Instytut Hydrologiczno-Meteorologiczny,
Warszawa.

MICHALCZEWSKI, W.

KULINICZ, W., MICHALCZEWSKI, W., CIBOR, J.: "How The Silos In Wierzbice Were Concreted"
p. 91. (Przegląd Budowlany, Vol. 25, no. 3, Mar. 1953, Warszawa)

SO: Monthly List of ~~Russian~~ East European Accessions / Vol. 3, No. 2, Library of Congress, February, 1954, 1953, Uncl.

POL/7-60-22-46/46

AUTHOR: Michalczuk, Stanisław

TITLE: Szczecin Awaits Delivery of Parachutes.

PERIODICAL: Skrzydlata polska, 1960, No. 22, Supplement "Przegląd
lotnictwa cywilnego" 1960, No. 11, p. 4

TEXT: The author criticizes the parachute supply section for not delivering more parachutes to Aeroclubs. He points out that the Szczecin Aeroclub has only 4 parachutes, and as a result flights are kept to minimum. Further, he describes a glider flight made by Bronikowski who, after flying a distance of 410 km, entered a cold front and for safety reasons was forced to land. ○

Card 1/1

MICHALCZYK, JERZY

PLLENB / Physical Chemistry. Molecules. Chemical Bond. 8-1

..bs Jour : Ref Zhur - Khim., N. 10, 1958, No 31480

..uth r : Jozef Hurwic, Jerzy Michalczyk, Krystyna Murziska.

..nst : -

..itle : Intermolecular Compounds of Pyridine and Acetic Acid.

..ri - Pub : Roczn. chem., 1957, 31, N. 1, 265-275.

..bstract : The dielectric polarization (DP) of pyridine (I) and acetic acid (II) mixtures in ratios corresponding to 1: 4 II and 2 I : 3 II was determined in dilute benzene solutions. The difference between the experimental value of the DP and the sum of DP-s of the component parts of the mixture was 0.87 cub. cm in the case of the first solution and 1.04 cub. cm in the case of the second solution. Thus, the DP, same as other physical magnitudes of the mixtures

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POLLAND / Physical Chemistry. Molecule. Chemical Bond.

B-4

Abs Jour : Ref Zhur - Khim., No 10, 1958, No 31480

under study, shows great divergences from additivity. The presence of a series of complexes, the composition of which depends on the concentration, is assumed. A probable mechanism of the formation of these complexes is suggested. Bibliography with 21 titles.

Card 2/2

INGARDEN, R. S.; MICHALCZYK, J.

On optimum field homogeneity of high energy coil magnets. *Bul Ac Pol
mat no.5:319-324 '60.*

1. Institute of Physics, Polish Academy of Sciences and Department
of Theoretical Physics, University, Wroclaw. Presented by W. Rubinowicz.

(Electric coils) (Electromagnets)

HURWIC, Jozef; MICHALCZYK, Jerzy

Relation between the saturated vapor pressure and dielectric constant
for certain binary liquid systems. Roczniki chemii 34 no. 5: 1423-1438
'60. (EAI 10:9)

1. Katedra Chemii Fizycznej Politechniki, Warszawa.

(Vapor pressure) (Dielectrics) (Liquids)
(Systems(Chemistry))

HURWIC, Jozef; MICHALCZYK, Jerzy

Relation between the saturated vapor pressure and density of some
binary liquid systems. Roczniki chemii 34 no.5:1439-1443 '60.
(EAI 10:9)

1. Katedra Chemii Fizycznej Politechniki, Warszawa.

(Vapor pressure) (Liquids) (Systems(Chemistry))

26833

P/046/61/006/007/005/008

D249/D302

21. 4100

AUTHORS: Michalezyk, Jerzy, and Hurwic, Józef

TITLE: Dipole moments of complexes of uranyl nitrate with tributylphosphate

PERIODICAL: Nukleonika, v. 6, no. 7-8, 1961, 503-509

TEXT: The following work, whose object is to find what complexes are formed by $UO_2(NO_3)_2$ with tributylphosphate (BP) and to determine their dipole moments, is an extension of the work of V. B. Shevchenko and his co-workers, who failed to report on their methods of investigation. A saturated solution of $UO_2(NO_3)_2$ in TBP was carefully prepared (free from H_2O and HNO_3). The mole fraction (x) of $UO_2(NO_3)_2$ in this solution was determined spectrophotometrically by Władysław Ratkowski at Pracowni Chemii Analitycznej IBJ, Warszawa (Laboratory of Analytical Chemistry IBJ, Warsaw). Portions of this solution were dissolved in varying amounts of pure benzene to give four solutions, each with a different weight fraction (w) of

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$UO_2(NO_3)_2$ - TBP, but with constant x value. Further portions of the saturated solution were diluted with TBP to give three solutions, each with a different x value. From each of these, a series of benzene solutions was made, each solution with a different w (x for each series was constant). For every resulting solution, the dielectric constant ϵ , the density d and the refractive index n were determined. The value was found by the heterodyne beat method; d was found picnometrically, while n was obtained with the aid of a universal refractometer. From the values of w , d , ϵ and n , the factors α , β and γ were determined for every solution where

$$\alpha = \frac{d-d_b}{wd_b}, \quad \beta = \frac{\epsilon - \epsilon_b}{w\epsilon_b} \quad \text{and} \quad \gamma = \frac{n^2 - n_b^2}{wn_b^2} \quad (\text{the postscript } b$$

refers to the pure solvent, i.e., benzene). The specific polarization P , for the $UO_2(NO_3)_2$ - TBP was calculated at infinite dilution from d_b , ϵ_b , α and β and the specific refractivity R was calculated from d_b , n_b , α and γ . The values thus obtained of P and R were plotted against x . The

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maximum value of x obtained was 0.4260; a pure $UO_2(NO_3)_2$ TBP complex would have $x = 0.5$, hence it can be inferred that the saturated solution does not consist of this complex alone. Extrapolation of the experimental curve of the P values against x to $x = 0.5$ gives $P_I = 0.475 \text{ cm}^3 \text{ g}^{-1}$ (where I refers to $UO_2(NO_3)_2 - \text{TBP}$). Since the experimental graph deviates from the straight line, it may be assumed that at higher TBP concentrations the complex $UO_2(NO_3)_2 \cdot 2\text{TBP}$ as well as free TBP are present. If no free TBP were present, additive relationship of the two complexes could be expected having to a linear relationship between the P and x . A plot of P versus x would then give a straight line passing through the point ($P = 0.426$, $x = 0.5$). If a tangent to the experimental curve at $x = 0.5$ be extended to meet a vertical line at $x = 0.33$ (corresponding to $UO_2(NO_3)_2 \cdot 2\text{TBP}$) then the point of intersection would give P_{II} (where II refers to $UO_2(NO_3)_2 \cdot 2\text{TBP}$). By this method P_{II} was found to be $0.465 \text{ cm}^3 \text{ g}^{-1}$. A graph of R versus x gives a curve

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closely approaching a straight line. Hence R_I ($= 0.183 \text{ cm}^3 \text{ g}^{-1}$) and R_{II} ($= 0.193 \text{ cm}^3 \text{ g}^{-1}$) were obtained by extrapolation to $x = 0.5$ and $x = 0.33$ respectively. By multiplying the values $P_I P_{II}$ and $R_I R_{II}$ by the molecular weight of the corresponding complex, the molar polarizations, $[P_I]$ and $[P_{II}]$, and the molar refractivities, $[R_I]$ and $[R_{II}]$, were obtained. From these the dipole moments were calculated by $\mu = 0.1273 \sqrt{([P] - [R]) \cdot T}$ and found to be as follows: $\mu_I = 3.04\text{D}$, $\mu_{II} = 3.47\text{D}$. The low value of μ_{II} (3.1D) found by Shevchenko was due to his failure to recognize the presence of $\text{UO}_2(\text{NO}_3)_2 - \text{TBP}$ and free TBP in the solutions. The authors express their gratitude to Mieczyslaw Taubem for his valuable suggestions and to Professor Witold Tomassian for the loan of apparatus. There are 1 figure, 4 tables and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: R. J. LeFevre, H. Vine: J. Chem. Soc. 1805 (1937).

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D249/D302

Dipole moments of...

ASSOCIATION: Politechnika Warszawska, Warszawa, Wydział chemiczny,
Katedra fizyki (Warsaw Polytechnic, Chemistry Section,
Department of Physics)

SUBMITTED: May, 1961

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