

GOLUBEV, D.B.; ZUBZHITSKIY, Yu.N.; ZVEREVA, Ye.P.; SIMANOVSKAYA, V.K.;  
LIPINA, N.V.; YABROV, A.A.

Change in cellular permeability in the process of symplasm  
formation induced by some viruses in the tissue. Vop. virus.  
10 no.5:544-550 S.O '65. (MIRA 18:11)

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i Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.

ZUCA, STEFANIA

The electrical conductivity of binary mixtures of molten salts. Systems:  $KNO_3 + NaNO_3$ ,  $Ba(NO_3)_2 + KNO_3$ ,  $MnCl_2 + KCl$ , I. G. Murgulescu and Stefania Zuca (Chem. Research Centre, Acad. R.P.R., Bucharest, Romania). *Acad. rep. populare Romane, Studii de cercetare chim.* 7, 325-33(1959).—Cond. was measured by an app. with a Kohlrausch bridge, precise to within 1%. For the system  $MnCl_2 + KCl$  the cells were modified to allow bubbling of HCl gas through the molten mixt. in order to avoid the formation of the Mn oxychloride and oxide. Mol. cond. of all 3 mixts. shows a neg. deviation from the rule of additivity. For the 1st and 2nd mixts. the deviations are small, and are due to ionic interaction. For  $MnCl_2 + KCl$  the deviations are large, because of chem. reaction as well as ionic interaction. The relations established or used in this work are based on the concept of complete disocn. of the molten salts to ions. T. D.

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1. Physical Chemistry Research Center, 23 Dumbrava Rosie St.,  
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Electric conductivity of the binary-salt mixtures in molten state;  
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der Rumanischen Volksrepublik (for Murgulescu)  
(Salts) (Mixtures) (Potassium nitrate)  
(Sodium nitrate) (Barium nitrate)  
(Maganese chlorides) (Potassium chloride)  
(Electric conductivity)

BELEAEV, A.I. [Balyayev, A.I.]; ZUGA, Stefania

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1. Membre du Comite de redaction "Revue de chimie" (for Murgulescu)

MURGULESCU, I. G., acad.; ZUCA, Stefania

On the viscosity of cryolite. Studii cerc chim 9 no.1:55-61 '61.  
(HEAI 10:9)

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fizica. 2. Comitetul de redactie, STUDII SI CERCETARI DE CHIMIE (for  
Murgulescu).

(Cryolite) (Viscosity)

ZUCHA, J.; ZATKO, J.

Some experiences in the technology of electroerosive machining. p. 537.  
(TECHNICKA PRACA, Vol. 9, No. 8, Aug 1957, Bratislava, Czechoslovakia)

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STROJIRENSKA VYROBA. (Ministerstvo teskeho strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju) Praha, Czechoslovakia, Vol. 7, no. 11, Nov. 1959.

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Treatment of total stricture of the esophagus due to burns)  
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1. Z Chirurgickej kliniky detskeho veku SU v Bratislave.  
(ESOPHAGUS, stenosis,  
\*caustic, surg.)

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(ESOPHAGUS, abnormalities,  
\*atresia)  
(ABNORMALITIES,  
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Little's disease and surgery. Neur. psychiat. cenk. 17 no.5:265-  
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J. Zucha.

(CEREBRAL PALSY, surgery  
revascularization by carotidjugular anastomosis)

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(COLITIS, in inf. & child  
newborn, with perf. (Cz))

(INFANT, NEWBORN, dis.  
colitis with perf. (Cz))

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Malformation of the diaphragm. Cesk. pediat. 14 no.2:119-122 5 Feb 59.

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Possibility of surgical therapy of focal epilepsy in children. Cesk.  
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Bratislava, riaditel clen koresp. SAV JB Antal, veduci oddelenia klin-  
ickej elektrofysiologie clen koresp. SAV JB Cernasek,  
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focal, surg. (Cz))

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J. Zucha.

(BRAIN, wds. & inj.  
causing arteriovenous fistulae, defects of dura mater  
& bone assoc. with possible escape of CSF (Cs))



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An attempt to restore conductivity in the spinal cord after traumatic section. Cesk. neur. 24 no.5:324-328 S '61.

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Adrenocortical Hypofunction, in Neurology, 1969, No 5, 522.

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(ESOPHAGUS)

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Bratislave, prednosta doc. dr. J. Zucha.  
(BRAIN NEOPLASMS) (BRAIN DISEASES)

ZUCHA, J.; GRUNERT, V.; HUPKA, M.; WINKLER, A.; CERNY, V.; CIGANEK, L.

Isolated perfusion of the brain with cytostatic drugs in the treatment of malignant cerebral neoplasms. *Cesk. neurol.* 25 no.5:342-347 S '62.

1. Klinika detskej a mozgovej chirurgie Lekárskej fakulty UK v Bratislave, prednosta doc. dr. J. Zucha. Laboratorium experimentalnej chirurgie Ustavu experimentalnej mediciny SAV v Bratislave, prednosta akademik K. Siska. Vyskumny ustav onkologicky v Bratislave, riaditel doc. dr. V. Thurzo.

(BRAIN NEOPLASMS) (ANTINEOPLASTIC AGENTS)  
(PERFUSION)



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(SKULL wds & inj) (FISTULA) (BRAIN blood supply)  
(CEREBROSPINAL FLUID)

CZECHOSLOVAKIA

L. CIGANEK, J. ZUCHA and V. GRUNERT, Institute of Experimental Medicine of the Slovak Academy of Sciences (Ustav experimentálnej medicíny SAV) Chief (vedúci) member-correspondent J. ANTAL; Department of Clinical Electrophysiology (Oddelenie klinickej elektrofyziológie) Head (vedúci) member-correspondent J. CERNACEK, and Clinic for Pediatric and Cerebral Surgery of the Medical Faculty of Comenius University (Klinika pre detskú a mozgovú chirurgiu Lekárskej fakulty UK [Univerzity Komenského]) Head (prádnosta) Docent Dr J. ZUCHA, Bratislava.

"Experiences with Surgical Treatment of Epilepsy."

Prague, Casopis Lekaru Ceskych, Vol 102, No 6, 5 Feb 63; pp 146-151.

Abstract [English summary modified]: Data on 20 refractory epileptics treated by excision of the well-localized epileptogenic focal areas: 10 were cured or nearly cured, 5 improved, 5 unchanged. Discussion. Much further research is needed in preoperative selection of the most suitable patients for cerebral surgery in this disease. Table, diagram, 4 Czech and 9 Western references.

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zdravi (veduci: doc. dr. J. Zucha [deceased]).

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Treatment of malignant brain tumors by perfusion of cytostatics.  
Bratisl. lek. listy 44 no.1:46-51 '64.

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MUDr. J. Zucha) a Laboratorium experimentálnej chirurgie UEM  
SAV v Bratislave (vedúci akademik K. Siska).

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Therapeutic results after isolation perfusion of the brain  
with cytostatics in 10 patients with malignant brain tumors.  
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dr. J. Zucha.

(ISOLATION PERFUSION) (BRAIN NEOPLASMS)  
(MENINGIOMA) (GLIOMA) (CYCLOPHOSPHAMIDE)

CIGANEK, L.; ZUCHA, J.; GRUNERT, V.

Experiences in the surgical treatment of epilepsy. Cas. lek. cesk.  
102 no.6:146-151 8 F '63.

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koresp. SAV J. Antal Oddelenie klinickej elektrofyziologie, veduci  
clen koresp. SAV J. Cernacek Klinika pre detsku a mozgovu chirurgiu  
Lekarskej fakulty JK v Bratislave, prenosta doc. dr. J. Zucha.  
(EPILEPSY) (NEUROSURGERY)

ZUCHA, J.

Vertebralgia and spinal tumors. Bratisl. lek. listy 43 no.2:109-115  
'63.

1. Z Kliniky detskej a mozgovej chirurgie Lek. Fak. University Komenského  
v Bratislave, prednosta doc. MUDr. J. Zucha.  
(SPINAL NEOPLASMS) (BONE NEOPLASMS) (SPINAL CORD NEOPLASMS)  
(MENINGIOMA) (NEURILEMMOMA) (NEOPLASM METASTASIS)  
(PAIN)



CZECHOSLOVAKIA

ZUCHA, J., MD, Docent, director of the Neurosurgery Department (Neurochirurgické oddelenie), KUNZ [Krajsky ustav narodneho zdravia; Kraj Institute of Public Health], Bratislava.

"Ten Cases of Malignant Brain Tumor Treated by Isolated Brain Perfusion With Cytostatics."

Prague, Ceskoslovenska Neurologie, Vol. XXVI(LIX), No 5, September 63, pp 289-292.

Abstract [Author's English summary]: Cytostatics (Endoxan) were applied, in addition to the usual surgical and radiation treatment, to ten patients, one with malignant meningeoma and nine with multiform glioblastoma. Patients were selected at different stages of the disease, but mainly during relapses. When perfusion was applied to soporous patients in a hopeless state, it was ineffective. Regional perfusion of the brain by cytostatics proved effective, however, both in relapses of glioblastoma and as first postoperational treatment. Cytostatics by perfusion should be applied in a series of treatments, as a single application gives only temporary results. One Czech reference.

ZUCHA, J.

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CZECHOSLOVAKIA

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Clinic of Child Surgery LFUK (Klinika detskej  
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The Poznan National Spring Fair 63; exhibited goods  
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The Jubilee Leipzig Fair has been closed. Przeglad techn 26 no.12:6  
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The Krakow region chosen as territory for the development of the metallurgical, chemical, and electric power producing industries. Przegl techn [84] no.9:7 3 Mr '63.

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Crucial problems of industry as seen by the members of Parliament  
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The city of Wleclawek derives much benefit from its engineers; interview with Wladyslaw Michalski, Chairman of the Presidium of the People's City Council. Przegl techn 84 no.50:4 15 D '63.

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Universal utilization of technological progress in municipal management; interview with Stanislaw Sroka, Minister of Municipal Management. Praegl techn 85 no.33:3 16 Ag'64.

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After the Poznan Spring Fair; turnovers were dictated by commercial transactions. Przegł techn no.14:10 8 Ap '62.



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A well-organized fair with good results. Przegl techn no.39:8  
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Care for the metallurgic industry; opinions of members of Parliament expressed during debates in the Polish Sejm. Przegl techn 85 no.4:5, 9 26 Ja '64.

STANNY, Damuta; ZUCHNIEWICZ, Wacław

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(TUBERCULOSIS, OSTEOARTICULAR

med. evaluation of working capacity)

(WORK

capacity, med. evaluation in osteoarticular tuberc.)

(WORKMEN'S COMPENSATION AND INSURANCE

med. evaluation of working capacity in osteoarticular tuberc.)

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mgr. inż. arch.; ZUCHOWICZ, Iwona, mgr. inż.

Sound proofing in the construction of dwelling houses. Konstrukcje  
Budow inzyn no.19:1-100 '62.

1. Instytut Techniki Budowlanej, Warszawa.

ZUCHOWICS, K.

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Zuchowics K. Considerations Concerning the Choice of the Type of Electrical Installations for Aeroplanes.

Polish Technical Abstract No. 4, 1953 Transport

Rozważania nad wyborem typu instalacji elektrycznej dla samolotow. Technika Lotnicze. No. 4, 1952, pp. 96--104, 8 figs., 2 tabs.

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7-4-53



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Alternating-current generators used on aircraft. p.2

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Abs Jour : Ref Zhur - Biol., No 19, 1958, 09713  
Author : Zuchowicz, T.  
Inst :  
Title : Angioma of the Small Intestine as a Cause of Intestinal  
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Orig Pub : Polski tygod. lekar., 1956, 11, No 44, 1831-1883  
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ZUCHOWICZ, Tadeusz

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Polski tygod. lek. 11 no.44:1881-1883 29 Oct 56.

1. (Z I Kliniki Chirurgicznej A.M. w Lodzi; kierownik:  
prof. dr. med. M. Stefanowski) adres: Lodz Al. 1 maja 1 m 4.  
(INTESTINE, SMALL, neoplasms,  
angioma causing hemorr. (Pol))  
(ANGIOMA, case reports,  
small intestine, causing hemorrh. (Pol))

ZUCHOWSKA, E.

Haematomyzus elephantis Piaget on Indian elephants (Elephas  
maximus L.) in the zoo in Lodz. Wszechwiat no. 5:115 My '64.

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  2. "Analysis of Achy's Summary for a Complex Control System," Mikhail BIKITSKI pp 393-397 (English summary).
  3. "Some Applications of Decoding Systems of Conjunctionary Type with the Hierarchical Structure," J. BUDRICH-SKI pp 399-405 (English summary).
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  9. "Load Characteristics of Two Kowatt Relay-Contact Amplifiers," Jos TRICIC and Kamilera VILAJOV-SKI pp 473-493 (English summary).
  10. "A Study of Control Properties of Quarter-Derivate Heat Exchanger with One Kelvin-Yukhovich Type," Milica LAV TRILJIC pp 493-510 (English summary).
  11. "Self-Dampening Ability of Isolated Steam Generators with Resonant Oscillation," Milica LAV TRILJIC pp 511-528 (English summary).
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P/0034/64/000/003/0101/0102

AUTHOR: Zuchowski, Adam (Zhukhovski, A.) (Docent, Doctor of engineering)

TITLE: Dynamic optimization of apparatus for measuring aperiodic signals

SOURCE: Pomiary, automatyka, kontrola, no. 3, 1964, 101-102

TOPIC TAGS: aperiodic signal, non-repetitive signal, aperiodic signal measurement, automatic control, linear electrical system, electric measuring instrument, oscillograph, loop oscillograph, unit step

ABSTRACT: The direct measure of the inaccuracy of measurement apparatus is the value of the difference  $X(t) - Y(t)$ , where  $X(t)$  is the measured signal and  $Y(t)$  is the response of the apparatus in the form of a graph on a tape, circular record chart, etc. Owing to computational difficulties, especially with a complex shape of the signal  $X(t)$ , it is more convenient to operate with the "derived" quantity in relation to the difference  $X(t) - Y(t)$ , often called the "error signal." Inasmuch as the tested signals  $X(t)$  have, as a general rule, limited power and the measurement apparatus is structurally stable, the error signal has limited power, which, as the derived quantity of the difference  $X(t) - Y(t)$ , can become the criterion for measurement accuracy. The assumption is made that the measuring

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apparatus is characterized by the transient function  $K(j\omega)$ , joining the spectra of  $X(t)$  and  $Y(t)$  signals

$$Y(j\omega) = X(j\omega) \cdot K(j\omega) \tag{1}$$

The strength of the error signal can be computed as

$$I^2 = \frac{1}{2\pi} \int_{-\infty}^{\infty} |X(j\omega) - Y(j\omega)|^2 d\omega \tag{2}$$

from where

$$I^2 = \frac{1}{2\pi} \int_{-\infty}^{\infty} |X(j\omega)|^2 \cdot |1 - K(j\omega)|^2 d\omega \tag{3}$$

is obtained by making use of equation (1). Under these conditions, optimization of the measuring apparatus is reduced to a selection of the transient function parameters  $K(j\omega, p_i)$  so that the strength of the error signal would attain a minimum, and matching of the apparatus is based on obtaining a definite power level of the error signal under the condition that optimization conditions are fulfilled. The equations leading to optimization are

$$\frac{\partial I^2}{\partial p_i} = 0 \quad i = 1, 2, 3, \dots \tag{4}$$

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which usually define the relationships between the parameters  $p_1$  and the "matching" condition

$$r_{\text{minimum}}^2 \leq \varepsilon$$

defines the values of these parameters. The conditions for optimization and matching of a loop oscillograph with a transient function of

$$K(j\omega) = \frac{1}{1 - \left(\frac{\omega}{\omega_0}\right)^2 + j2\beta \left(\frac{\omega}{\omega_0}\right)} \quad (5)$$

and with a unit step of the form  $X(j\omega) = 1/j\omega$  are examined by way of an example. Author concludes that this method can be used for a number of other problems as, for instance, optimization of correcting elements. Orig. art. has: 2 figures and 11 equations.

ASSOCIATION: Politechnika Szczecińska, Katedra Miernictwa Elektrycznego (Department of Electrical Measurements of the Szczecin Polytechnic Institute)

Card 3/4

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DATE ACQ: 15Apr64

ENCL: 00

SUB CODE: EE

NO REF SOV: 001

OTHER: 003

Card 4/4

ZUCHOWSKI, Adam

A method of analyzing relay-contact networks. Archiw automat 6 no.4:  
423-434 '61.

1. Politechnika Szczecinska, Katadra Miernictwa Elektrycznego.

(Radio relay systems)

METAL, Artur, doc.; ZUCHOWSKI, Adam, dr.inz.; BODZIAK, Kazimierz,  
mgr.inz.

High overload permitting rail ampere meters. Pomiary automatyka  
kontrola 8 no 2:59-60 F '62.

1. Instytut Elektrotechniki, Zakład Automatyki i Miernictwa,  
Pracownia Masowych Przyrządów, Szczecin (for Metal and Zuchowski).
2. Zakład Lumel, Zielona Góra (for Bodziak).

ZUCHOWSKI, Adam, dr inż.

The optimization problem of dynamic parameters of measuring instruments. Pomiary 8 no.9:403-406 S 162.

1. Katedra Miernictwa Elektrycznego, Politechnika, Szczecin.

9,7150

P/031/61/000/004/005/010  
D242/D301

AUTHOR: Zuchowski, Adam

TITLE: A certain method of analyzing contact relay systems

PERIODICAL: Archiwum automatyki i telemechaniki, v. 6, no. 4, 1961,  
423-434

TEXT: The author introduces the concept of logical functions of "and," "or" and "not" using Boolean algebra. To analyze a logical circuit using magnetic relays, he proposes using the unit step function. Several rules are established enabling the expression of logical function in a purely mathematical way. One of the advantages of this method is the fact that the time factor is taken into consideration. There are, however, several serious disadvantages. The method does not take into consideration the characteristics of relays. It is difficult to interpret the results except in simple cases. The method becomes very involved for the more

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A certain method...

P/031/61/000/004/005/010  
D242/D301

complicated cases. The author demonstrates the use of the method in designing non-reversible asynchronous counters. There are 11 figures, 1 table and 6 Soviet-bloc references.

ASSOCIATION:

Politechnika Szczecinska. Katedra miernictwa elektrycznego (Politechnic Institute of Szczecin, Department of Electrical Measurements) ✓

SUBMITTED:

May 15, 1961

Card 2/2

ZUCHOWSKI, Ryszard, dr inż.

Determination of the relationship between absorption and dispersion  
of gamma rays and elastic and plastic strain. Przegł mech 24 no.10:  
310 25 My '65.

1. Department of Technical Mechanics of Wrocław Technical University.

ZUCHOWSKI, Ryszard, mgr inż., st. asystent

Torsion as a way of working to increase the tensile strength properties. Przegl mech 22 no. 16:509-511 25 Ag '63.

1. Katedra Mechaniki Technicznej, Politechnika, Wrocław.

ZUCHOWSKI, Z.

Will the Congress of Polish Engineers and Technicians help the builders in overcoming their difficulties? p. 41. (Przegląd Budowlany, Vol. 29, No. 2, Feb 1957, Warsaw, Poland)

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

ZUCHOWSKI, Zdzislaw (Warszawa)

Building industry in the Rumanian People's Republic. Przegł budowl  
i bud mieszk 34 no.2:89-91, 101 F '62.

ZUCHOWSKI, Zdzislaw (Warszawa)

Before the 4th Congress of Polish Engineers and Technicians.  
Przeł budowl i bud mieszk. 33 no.1:2-4 Ja '61

KIERSKI, Boleslaw (Warszawa); ZUCHOWSKI, Zdzislaw (Warszawa)

Construction of a dwelling project in France by means of the  
ESTIOT large panel method. Przegł budowl i bud mieszk 34  
no.10:587-593 0 '62.

ZUCHOWICZ, K.

The problem of brushes for high-altitude engines.

p. 134 (Technika Lotnicza. Vol. 12, no. 5, Sept./Oct. 1957. Warszawa, Poland)

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February 1958



ZUCHOWSKI, A.

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PERIODICAL: POMIARY, AUTOMATYKA, KONTROLA. Vol. 4, no. 8, Aug. 1958.

ZUCHOWSKI, A.: Specifications of electric measuring instruments. p. 359.

Monthly List of East European Accessions (EEA) LC Vol. 8, no. 4, April 1959, Unclass.

P/034/60/000/005/002/003  
S201.1308

Author: Buchowski, Adam, Doctor of Engineering

Title: Periodic pulse-train analyzer

Periodical: Podziary, Automatyka, Kontrola, vol. 3, 1957, 1958, 1959

Abstract: The author shows that if a certain condition is satisfied, the spectrum of a periodic pulse train is a discrete spectrum. The author also shows that the spectrum of a periodic pulse train is a discrete spectrum if the pulse train is a periodic function of a periodic function. The author also shows that the spectrum of a periodic pulse train is a discrete spectrum if the pulse train is a periodic function of a periodic function. The author also shows that the spectrum of a periodic pulse train is a discrete spectrum if the pulse train is a periodic function of a periodic function.

Keywords: Periodic pulse-train analyzer; Spectrum; Discrete spectrum; Periodic function; Pulse train.

ZUCHOWSKI, Z.

TECHNOLOGY

Periodicals: PRZEGLAD TECHNICZNY. Vol. 79, no. 17, Sept. 1958

ZUCHOWSKI, Z. Problem of technical expertness in the associations of the Central Technical Organization. p. 823.

Monthly List of East European Accessions (FEAI) IC, Vol. 8, No. 2,  
February 1959, Unclass.

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Periodicals: PRZEGLAD TECHNICZNY. Vol. 79, no. 19, Sept. 1958

ZUCHOWSKI, Z. Understanding committees of the Central Technical Organization.  
p. 811

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February 1959, Unclass.

RUMANIA/Human and Animal Physiology - Nervous System.  
Epilepsy.

11-10

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32174

Author : Zuckerman, E.

Inst : -

Title : Study of the Mechanism of the Appearance and Cessation of  
Convulsions Caused by Focal Stimulation. Pharmacodynamic  
Investigation.

Orig Pub : Studii si cercerari neurol. Acad. RPR. Inst. neurol.,  
1956, 1, No 3-4, 373-386.

Abstract : During the action of luminal (I) in doses (25 γ/kg) that  
do not change the threshold convulsion caused in rats by  
stimulation of the motor region of the cortex, there were  
observed: a decrease of the length of attack, change of  
character of the clonic movements, and lengthening of the  
period of excitability-restoration in the chain of neurons.  
During higher doses of I, the threshold for the appearance

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- 119 -

RUMANIA/Human and Animal Physiology - Nervous System.  
Cortex of Cerebral Hemispheres.

T-10

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32154

Author : Zuckerman, E.

Inst : -

Title : Characteristic Signs of Focal Spasm Attack Caused by  
Stimulation of Different Layers of the Cerebral Cortex.

Orig Pub : Fiziol. norm. si patol., 1957, 4, No 3, 240-244.

Abstract : During bipolar stimulation of electrodes implanted in  
different layers of the brain in 40 rats, it developed  
that both cortical spasm discharges and attacks of spasms  
appear more easily during stimulation of deep layers (V,  
VI) of the cerebral cortex than during stimulation of  
surface layers (I-III).

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- 109 -

RUMANIA/Human and Animal Physiology (Normal and Pathological). T  
Nervous System. Higher Nervous Activity. Behavior.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 80045.

Author : Zuckermann, A.; Stoica, E.; Strungaru, Gr.

Inst :

Title : Change of Food Excitability Depending on Cortical  
Tonus.

Orig Pub: Studii si cercetari fiziol. Acad. RPR, 1956, 1,  
No 3-4, 431-440.

Abstract: A stereotype of conditioned salivary reflexes with  
food reinforcement and a stereotype of motor reflexes  
were formed in 5 dogs. Normal food weight did not  
impair the excitability of the food center, if the  
motor activity of the animal prevented the experience

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ZUCZKIEWICZ, S.

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Chemistry or metallurgy.

P. 193 (Chemik) Vol. 10, No. 7/8, July 1957, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. VOL. 7, NO. 1, JAN. 1958



ZUCZKIEWICZ, Stanislaw, mgr inż.

Principles of preparing prospective and five-year economic plans. Chemik 15 no.12:432-435 D '62.

ZUCZKIEWICZ, S.

"Location of nitrogen plants and shipping costs."

p. 44 (Chemik) Vol. 10, no. 2, Feb. 1957  
Warsaw, Poland

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

ZUCZKIEWICZ, Stanislaw, mgr inż.

Investments in the chemical industry. Chemik 15 no.7/8:239-241  
Jl-Ag '62.

1. Zjednoczenie Przemyslu Syntezy Chemicznej, Gliwice.

ZUCHOWSKI, W.

"Solubility of Albumin as the Criterion of its Usefulness for Production of Glues for Veneer", p. 14, (PRZEMYSŁ DRZEWNY, Vol. 5, No. 12, Dec. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

ZUCHOWSKI, W.

"New Substitutes for Albuminous Raw Materials for Glue", p. 16, (PRZEMYSŁ  
DRZEWNY, Vol. 5, No. 11, Nov. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5,  
May 1955, Uncl.

ZUCHOWSKI, Z.

Building problems at the International Leipzig Fair. p. 253

PRZEGLAD BUDOWLANY

Warszawa

Vol. 27, no.7, July 1955

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

ZUCHOWSKI, Z.

"Problems of Sanitary Installations in Building Construction in the Soviet Union," P. 290. (GAZ, WODA I TECHNIKA SANITARNA, Vol. 28, No. 10, Oct. 1954. Warszawa, Poland)

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

ZUCHOWSKI, Zdzislaw, mgr.ins.

Development trends of building techniques in Poland. Przegł  
techn 79 no.5:166-169 Mr '58.



ZUCHOWSKI, Zdzislaw

Zdzislaw ZUCHOWSKI, Magister Engineer, "Trends in the Development of Construction Technology in Poland," Przegląd Techniczny, No. 5, March 1958, Warsaw, pp. 166-170.

SO: JPRS/DC-L-1025, 3 Nov 58, Uncl.

RUCHOWSKI, Z.; URBAN, L.

Second quarterly conference of head engineers of central committees and associations of municipal building. p. 130. (PRZEGLAD BUDOWLANY, Vol. 26, No. 5, May 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 3, No. 12, Dec. 1954, Uncl.

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**Electrophoretic measurements of the root-nodule bacteria of Leguminosae. P.**

*Abstract:* *Mitsunobu and Katada* 3, 40-48(1970).--Representatives of the alfalfa, red clover, pea, bean, soy bean, cowpea and lupine groups were studied. The effect of the degree of dil. of cell suspension was detd. from the electrophoretic velocity. Velocities of dil. solns. are higher than those of concd. solns. Velocity is influenced by the gum or slime and acid by-products of organisms. Variations of velocities of different strains of groups of bacteria never exceed 2 microns per sec. if 12.5 v. is used. Various strains of *B. radiobacter* showed different velocities which average about the same as those of nodule bacteria.

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