

ACCESSION NR: AP4038545

dielectrics, can be described by the equation

$$I(t) = \sum_{i=0}^n I_i e^{-\lambda_i t}$$

Irradiation of the dielectrics by ultraviolet irradiation does not cause polarization decay, but it does, however, bring about a change in the depolarization time constant. The linear relationship between the applied voltage and current intensity flowing through the test sample is fulfilled only in the electric field intensity range of the order of  $10^5$  volts/cm. In the case of higher strengths of the applied field, the relationship  $I \approx V^n$ , where  $n = 1.5$ , is in conformity with the theory of the effect of the space charge on the dielectric conductivity. The through resistance of the dielectric depends upon the ultraviolet irradiation dosage. Changes in the resistance under the effect of ultraviolet irradiation occur especially clearly in the case of saran, which is subject to degradation more readily than polystyrene. The surface conductivity of the tested dielectrics depends upon the pressure and nature of the gas surrounding the test sample. Orig. art. has: 9 figures, 2 tables and 1 equation.

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ACCESSION NR: AP4038545

ASSOCIATION: Katedra Fizyki Wydziału Chemicznego Politechniki Łódzkiej (Physics  
Department of the Chemical Faculty, Lodz Polytechnic Institute).

SUBMITTED: 00

DATE ACQ: 09Jun64

ENCL: 00

SUB CODE: MT, EM

NO REF SOV: 000

OTHER: 007

Card 3/3

SZYBANSKI, A.; MINC, S.

Preparation of  $UO_4 \cdot 2H_2O$  during glow discharges in aqueous uranyl salt solutions.  
p. 551

ROCZNIKI CHEMII. (Polska Akademia Nauk) Warszawa, Poland, Vol. 33, no. 2, 1959

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

ACCESSION NR: AT.4038892

P/2538/61/000/009/0041/0063

AUTHOR Lipinski, Andrzej (Lipin'ski, Andzhey); Przytula, Marian (Pshitula, Kariyan); Szymanski, Aleksander (Shiman'ski, Aleksander)

TITLE: Certain questions relating to the project of a double-surge neutron counter

SOURCE: Lodz. Uniwersytet. Zeszyty naukowe. Seria II. Nauki Matematyczno-przyrodnicze, no. 9, 1961. Projektowanie i budowa akceleratora jonowego (Design and construction of an ion accelerator), 41-63

TOPIC TAGS: double-surge neutron counter, fast neutron, gamma-background isolation, retardation probability, absorption probability, coincidence probability, accidental coincidence, liquid scintillator, pulse amplitude distribution

ABSTRACT: In investigations of the phenomena produced by fast neutrons an important role is played by the detector upon which largely depends the accuracy with which a given measurement can be made and even whether a given effect is measurable. A good detector must have a high neutron-counting efficiency, must not react to other kinds of radiation and must permit determination of the neutron energy. The time-of-flight method permits very accurate determination of

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neutron energy, but is insensitive to other kinds of radiation; it is rather efficient, but requires a pulsing neutron source. The pulse-shape method permits isolation of the gamma background when neutron recording is quite efficient; but measurement of neutron energy is inaccurate and impossible in the case of a continuous spectrum. The double-surge method provides very high efficiency and isolation of the gamma background. While the measurement of electron energy is considered to be burdened by an error resulting from the method itself, it can be determined by this method, according to N. Hayes Bell, Jr., "Liquid Sci. Count, New York 1958, and J. Leiss, National Bureau of Standards, NBS-TN-10. The authors have therefore continued to apply it. The program for building an accelerator in the Plant (Zaklad) of Experimental Physics of Lodz University includes construction of a double-surge counter. The present paper is the result of certain considerations and computations made in designing the above-mentioned detector. It describes the principle of action of the counter (first and second surge); discusses the probability of retardation-- only the order of magnitude, since a theory of retardation with capture is lacking for variable effective cross-sections --, the probability of absorption and the probability of coincidence; also problems connected with the determination of neutron energy, and accidental coincidences; and details the preparatory work on suitable liquid scintillators

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and the electronic system designed to: 1) find the distribution of the amplitudes of the pulses obtained from the photomultiplier; 2) select from among them only those accompanied by a pulse produced by the second surge. Most of the computations are contained in six "postscripts", occupying the second half of the article and dealing with the above-mentioned probabilities, etc.; e.g. computation (approximate) of the loss of hot neutrons caused by leakage beyond the area of the scintillator. Orig. art. has: 8 figures, 2 tables and 59 formulas.

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

SUBMITTED: 00

DATE ACQ: 18Jun64

ENCL: 00

SUB CODE: NP

NO REF SOV: 004

OTHER: 019

Card 3/3

KRYSZEWSKI, Marian; KURCZEWSKA, Halina; SZYMANSKI, Aleksander

D.C.current conductivity of organic dielectric polymers, depending on the work conditions and external factors. Pt. 1. Przegł elektroniki 5 no. 4:190-198 Ap '64.

1. Department of Physics, Division of Chemistry, Technical University, Lodz.

SYMANSKI, Alfred

Krakow, Encyklopedia Lekarska, Vol XVIII, Series II, No 5, 62.

1/3

Polskiary Conditio; pp. 224-228.

- 9. "The Occurrence of Balaenophilus coli in Man." Alfred SZYMANSKI, of the Department of Pathology, Radiology (Gdansk University), of the G.P. (University) Hospital (Gdansk) in Gdansk, director of the Hospital and of the Gdansk (Gdansk) branch of the Department of Internal Medicine: dr. A. Szymancki; pp. 228-229.
- 10. "Hospitality of Postures and Nephros in the 1956-1959 Period." Zdzislaw RUSZKIEWICZ of the Second Veterans and Children's Hospital of the Academy of Medicine of Lublin, Director of the Department of Internal Medicine of Lublin (Lublin) Hospital, director: docent J. Jurecki; id: pp. 230-232.
- 11. "Peculiarities of Postures and Nephros in the 1956-1959 Period." Zdzislaw RUSZKIEWICZ of the Second Veterans and Children's Hospital of the Academy of Medicine of Lublin (Lublin) Hospital, director: Prof. K. Jadowski; id: pp. 232-234.
- 12. "Minutes of the Ordinary Meeting of the Polish Medical Association (Polskie Towarzystwo Lekarskie) Krakow Branch (Oddzial w Krakowie) Organized Jointly with the Association of Anatomists and Pathologists (Towarzystwo Anatomow-Patologow), Krakow Branch and the Onkologiczny Association (Towarzystwo Onkologiczne) Krakow Branch, on 11 May 1960." Dr. Piotr BOZEM, secretary: Prof. Dr. Jozef BODZISZ, chairman; pp. 235-235.
- 13. "Minutes of the Ordinary-Scientific Meeting of the Krakow Branch (Krakowski Oddzial) of the Polish Medical Association (Polskie Towarzystwo Lekarskie), on 16 May 1960." Dr. Piotr BOZEM, Secretary; Prof. Dr. Jozef BODZISZ, Chairman; p. 235.
- 14. "Russian Summary of Contents," pp. 235-236.
- 15. "English Summary of Contents," p. 236.



SZYMANSKI, Antoni

Measurements comparatively carried out in Polish observatories and the Geomagnetic Observatory in Niemegk during the days of April 16 - May 2, 1963. Acta geophys Pol 12 no.1:69-71 '64

1. Institute of Geophysics, Polish Academy of Sciences, Warsaw.

SZYMANSKI, Andrzej

Tuberculosis of the bronchi & exudative pleurisy. Gruzlica 25 no.9:  
725-732 Sept 57.

1. Z Kliniki Ftyzjatrycznej A. M. w Lodzi. Kierownik: prof. J. Stopczyk.  
(TUBERCULOSIS, PULMONARY, pathol.  
bronchial & lymph node pathol. & exudative tuberc.  
pleurisy (Pol))

SZYMANSKI, Andrzej

Exudative polyserositis of tuberculous origin (Fernet-Boulang syndrome). Gruzlica 27 no.4:337-341 Apr 59.

1. Z Kliniki Ftyzjatrycznej A. M. w Lodzi Kierownik: prof. dr med.  
J. Stopezyk.  
(TUBERCULOSIS PULMONARY, compl.)

STOPCZYK, Jan; KUCZBORSKI, Stanislaw; SZYMANSKI, Andrzej

Results of the treatment of tuberculous cerebrospinal meningitis.  
Gruzlica 27 no.8:921-930 S '59.

1. Z Kliniki Ftyzjatrycznej A.M. w Lodzi. Kierownik: prof.dr med.  
J. Stopczyk.

(TUBERCULOSIS MENINGEAL ther.)

STOPCZYK, Jan; KUCZBORSKI, Stanislaw; PRUSZYNSKA, Stefania; STRUPCZEWSKA,  
Halina; SZYMANSKI, Andrzej; WOSZCZAK, Wieslawa

Prognosis of pulmonary tuberculosis in adults in established INH  
resistance. Gruzlica 28 no.12:969-977 D '60.

1. Z Kliniki Ftyszjatrycznej A.M. w Lodzi, Kierownik prof. dr  
med. J.Stopczyk.

(TUBERCULOSIS PULMONARY diag)

SZYMANSKI, Andrzej

Bronchoscopy in massive pulmonary hemorrhages. Gruzlica 29 no.8:  
735-739 Ag '61.

1. Z Kliniki Ftyzjatrycznej AM i Szpitala Miejskiego im. dr  
J. Brudzinskiego w Lodzi. Kierownik Kliniki: prof. dr med. J.  
Stopezyk. Dyrektor Szpitala: dr med. S. Kuezborski.

(LUNG DISEASES diag) (BRONCHOSCOPY)

SZYMANSKI, Andrzej

A case of leiomyosarcoma. Gruzlica 30 no.2:163-168 '62.

1. Z Kliniki Ftizjatrycznej AM w Lodzi Kierownik: prof. dr med.  
J. Stopczyk.

(LUNG NEOPLASMS case reports)  
(LEIOMYOSARCOMA case reports)

SZYMANSKI, Andrzej

Bronchial adenoma with pulmonary tuberculosis and bronchiec-  
tasis. Gruzlica 30 no.9:843-847 '62.

1. Z Kliniki Ftizjatrycznej AM w Lodzi Kierownik: prof. dr  
med. J. Stopczyk.

(BRONCHIAL NEOPLASMS) (ADENOMA)  
(BRONCHIECTASIS) (TUBERCULOSIS, PULMONARY)



ROPEK, Mieczysław; SZYMANSKI, Andrzej

Early results of ethionamide (TH-1314) therapy of pulmonary tuberculosis in adults. Gruzlica 30 no.9:801-809 '62.

1. Z Kliniki Ftizjatrycznej AM i Katedry Ftizjatrii WAM w Łodzi  
Kierownik Kliniki i Szef Katedry: prof. dr med. J. Stopczyk.  
(ETHIONAMIDE) (TUBERCULOSIS, PULMONARY)

ROPEK, Mieczyslaw; PRUSZYNSKA, Stefania; SZYMANSKI, Andrzej

Aneurysm of the pulmonary artery with death during bronchoscopy.  
Gruzlica 30 no.9:849-853 '62.

1. Z Kliniki Ftizjatrycznej AM i z Katedry Ftizjatrii WAM  
w Lodzi Kierownik: prof. dr med. J. Stopczyk.

(ANEURYSM) (PULMONARY ARTERY) (BRONCHOSCOPY)  
(DEATH, SUDDEN)

ROPEK, Mieczyslaw; STRUPCZEWSKA-JANUSZOWA, Halina; SZYMANSKI, Andrzej

The ethionamide resistance titer of the H37Rv strain isolated from patients not treated with ethionamide and attempted use of the vertical diffusion method for the determination of bacteriostatically-active ethionamide in patient's serum. Gruzlica 30-no.12:1085-1090 '62.

1. Z Pracowni Bakteriologicznej Kliniki Ftizjatrycznej AM Z Katedry Ftizjatrii WAM i ze Szpitala im. dr J. Brudzinskiego w Lodzi. Kierownik Kliniki Ftizjatrycznej AM: prof. dr med. J. Stopczyk  
Dyrektor szpitala: dr med. S. Kuczborski. Kierownik pracowni: dr mikrobiologii H. Strupczewska-Januszowa.

(ETHIONIAMIDE) (MYCOBACTERIUM TUBERCULOSIS)  
(DRUG RESISTANCE MICROBIAL)

MINC, Stefan; SZYMANSKI, Andrzej

Reactions of OH and H radicals in aqueous sulfuric acid.  
Rocz chemii 36 no.10:1543-1544 '62.

1. Department of Physical Chemistry, University, Warsaw.

ROPEK, Mieczyslaw; SZYMANSKI, Andrzej; WOSZCZAK, Wieslawa;  
PRUSZYNSKA, Stefania

Results of antibacterial treatment of freshly discovered  
fibro-cavernous pulmonary tuberculosis. Gruzlica 31 no.10:  
1041-1048 '63.

1. Z Katedry Ftizjatrii WAM i Kliniki Ftizjatrycznej AM w Lodzi  
Szef Katedry i Kierownik Kliniki: prof. dr med. J. Stopczyk.  
(TUBERCULOSIS, PULMONARY) (DRUG THERAPY)

ROPEK, Mieczyslaw; SZYMANSKI, Andrzej; PRUSZYNSKA, Stefania

Late results of ethionamide therapy of pulmonary tuberculosis  
in adults. Gruzlica 31 no.10:1049-1054 '63.

1. Z Kliniki Ftizjatrycznej AM i Katedry Ftizjatrii WAM w  
Lodzi Kierownik Kliniki i Szef Katedry: prof. dr med. J. Stopczyk.  
(TUBERCULOSIS, PULMONARY) (ETHIONAMIDE)

SZYMANSKI, Andrzej

Role of bronchoscopic, bronchographic and radiotomographic pictures in the diagnosis of pulmonary and bronchial malignant tumors, Gruzlica 31 no.10:1055-1063 '63.

1. Z Kliniki Ftizjatrycznej AM w Łodzi Kierownik: prof. dr med. J. Stopczyk.

(LUNG NEOPLASMS) (BRONCHIAL NEOPLASMS)  
(NEOPLASM DIAGNOSIS) (BRONCHOGRAPHY)  
(BRONCHOSCOPY) (TOMOGRAPHY)

ROPEK, Mieczysław; SZYMANSKI, Andrzej

A case of staphylococcal pneumonia complicated by spontaneous pneumomediastinum, pneumothorax and subcutaneous emphysema.  
Gruzlica 31 no.10:1081-1084 '63.

1. Z Kliniki Ftizjatrycznej AM i Katedry Ftizjatrii WAM w Łodzi  
Kierownik Kliniki i Szef Katedry: prof. dr med. J. Stopczyk.  
(PNEUMONIA) (STAPH INFECTIONS, RESPIRATORY)  
(MEDIAS-TINAL EMPHYSEMA) (PNEUMOTHORAX)  
(EMPHYSEMA) (AUTOPSY)



MINC, Stefan; SZYMANSKI, Andrzej

Application of electric discharge to the initiation of chemical processes. Pts. 1-2. Roczniki chemii 37 no. 11:1525-1537 '63.

1. Department of Physical Chemistry, University, Warsaw.

SZYMAŃSKI, A.; KRYSZEWKI, M.

Application of the rare gas radioluminescence increase by the electric field for studies on inelastic scattering of electrons.  
Bul Ac Pol math 12 no.8:507-511 '64.

Estimation of electron energy distribution from increase of rare gas radioluminescence in the electric field.  
Ibid.:513-516

1. Department of Physics of the Division of Chemistry of the Technical University, Lodz. Presented by A. Jablonski.

ROPEK, Mieczyslaw; SZYMANSKI, Andrzej; PALCZEWSKA-KLUZ, Jadwiga.

Case of esophageal diverticulum diagnosed and treated as fibro-cavernous pulmonary tuberculosis. Gruzlica 33 no.9:807-810  
S ' 65.

1. Z Katedry Ftizjatrii Wojskowej Akademii Medycznej w Lodzi (Kierownik: p.o. dr. med. M. Ropek) i z Oddzialu Chorob Plucnych Szpitala im. dr. Bieganskiego w Lodzi (Ordynator: dr. Z. Czerwinski).

BORSUK, Jozef; ROPIK, Mieczyslaw; SZYMANSKI, Andrzej; MIKSEA, Jan

Auditory apparatus in pulmonary tuberculosis patients treated  
with streptomycin. Gruzlica 33 no.11:1165-1170 N° 65

1. Z Katedry Fizjologii z Kliniki Wojskowej Akademii Medycznej  
(Kierownik podpułkownik dr. med. M. Ropak) i z Kliniki Larungo-  
logicznej Wojskowej Akademii medycznej (Kierownik pułkownik  
prof. dr. med. J. Borsuk).

SZYMANSKI, Antoni

Comparative measurements between the Polish observatories and the Geomagnetic Observatory in Niemegk performed during June 2-10, 1964. Acta geophys Pol 13 no.1:65-67 '65.

1. Institute of Geophysics of the Polish Academy of Sciences, Warsaw. Submitted November 18, 1964.

GAJEWSKI, Zdz.; SZYMANSKI, B.

From the standardization activities of Section Nr.8 (measuring devices and automation) of the Permanent Commission for RWPG-III Machines. Pomiary 8 no.6:225-228 Je '62.

1. Centralne Laboratorium Aparatów Pomiarowych i Optyki, Warszawa.

SZYMAŃSKI B

3952

021.187.132 : 681.126(438)

Szymański B. Construction of a Water Level Regulator.

„Konstrukcja regulatora poziomu wody”. Przegląd Mechaniczny. No. 10, 1954, pp. 310—312, 7 figs.

A water level regulator for de-gassing plants which remove oxygen from boiler feed-water has been designed and manufactured in Poland. It is an intermediate action regulator with a steam pipe, in which oil is employed as a medium. Here described are the design and operation of the relay (of the controlling system) with an „immersed” steam pipe, which constitutes the principle component of the regulator. The originality of this new Polish design lies in the introduction of two-fold eccentricity enabling initial adjustment of the regulator. The regulator described in the article has been in operation for some time in several boiler houses, fulfilling its task quite satisfactorily.

HN

SZYMANSKI, Bohdan

Preliminary results of studies on the influence of covering pine seedlings during the winter season upon their growth in the nursery. Sylwan 104 no.5:73-81 My '60.

1. Zaklad Hodowli Lasu, Instytut Badawczy Lesnictwa, Warszawa.



1 SZYMANSKI, CZESLAW

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KWIATKOWSKI, Adam; SZYMANSKI, Caslaw; GRZEGOROWSKI, Leon

Power increase of the electric power station by 8.1% during the night peak by building tubular burners in 8 boilers of the Skaleczno Power Plant. Gosp paliw 11. Special issue no. (95):59 Ja '63.

KWIATKOWSKI, Adam; SZYMANSKI, Czeslaw; GRZEGORCWSKI, Leon

Power increase of the electric power station by 8.1% during the night peak by building tubular burners in 8 boilers of the S<sub>1</sub>aleczno Power Plant. Gosp paliw 11 Special issue no.(95):59 Ja '63.

PTA

9

1251  
Szymanski E. The Problem of Own Cost in Building Practice.  
Zagadnienie kosztow wiazanych w budownictwie". Przegląd Bu-  
dowlany. No. 3, 1951, pp. 108-114. 357.47 : 69.003

The economic and social importance of reducing own cost. The problem and typical features of own cost in building practice. A proper conception of own cost in building practice should be based on the determination of the nature of the assortment or of the production unit, as well as on the determination of allocation of own costs. Analysis of five means of solving the problem of the nature of assortment: 1) cost carriers are the working operations constituting the individual work sections, 2) taking the work sections as the basis, 3) subdivision of the building work into consolidated elements (foundations, walls, etc.), 4) the assortment is applied on the basis of a national scale and consists of individual types of buildings, 5) combination of items 1,3 and 4. Allocation of own cost to 6 groups: direct labour, direct materials, transport, equipment (mechanisation), auxiliary enterprise, overheads.

SZYMAŃSKI, E.

Activities of the Institute for Organization and Mechanization of Building in  
the field of translating. p.50.

BUDOWNICTWO PRZEMYSŁOWE (Ministerstwo Budownictwa Przemysłowego) Warszawa  
Vol. 5, no. 1, Jan. 1956

So. East European Accessions List

Vol. 5, No. 9

September 1956

POLAND/Chemical Technology. Chemical Products and Their Applica- H-13  
tion. Ceramics. Glass. Binding Materials. Concrete

Abs Jour : Ref Zhur - Khim., No 24, 1958, No 82462

Author : Szymanski E.

Inst : -

Title : Gypsum Binding Materials Derived from Natural Gypsum

Orig Pub : Budown. Wiejskie, 1958, 10, No 6, 15-18

Abstract : The results of investigations conducted in the USSR on the production of gypsum binding materials are presented. Such materials were obtained from finely ground natural gypsum to which various activators (slack lime, granulated blast furnace slag, portland cement, and slag cement) were added. -- B. Lewnan

Card : 1/1

KOLAKOWSKI, Jerzy, dr., inz.; SZYMANSKI, Edward, dr., inz.

Initial waterproofing trials of vapor cured lime-ash concrete.  
Biul inform inst techn bud no.9:38-43 '61.

SKALMOWSKI, Włodzimierz, prof., dr.; SZYMANSKI, Edward, mgr., inż.

New setting materials of gypsum and possibilities of their application in the building technique. Cement wapno gips 16/26 no.7:221-224 '61.

1. Politechnika Warszawska.

(Gypsum)



SKALMOWSKI, Wlodzimeriz, prof.dr.; SZYMANSKI, Edward, dr.inz.

Binders and building materials prepared from gypsum and lime.  
Cement wapno gips 17 no.5:126-127 My '62.

1. Politechnika, Warszawa.

SZYMANSKI, Edward (Warsaw)

Vibrated limestone-sand products. Przegł budowl i bud mieszk  
37 no.2:83,97-98 F '65.

SZYMANSKI, H.

"Angular Units." P. 15, (PRZEGLAD GEODEZYJNY, Vol. 10, No. 1,  
Jan. 1954. Warszawa, Poland.)

SO: Monthly List of East European Acquisitions, (ERAL), LC,  
Vol. 3, No. 12, Dec. 1954, Uncl.

SZYMANSKI, H.

Classification of liquid meters, p. 647. (POLSKI KOMITET NORMALIZACYJNY, Warszawa, Vol. 22, no. 10, Oct. 1954.)

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

SZYMANSKI, HENRYK

Jednostki miar. (Wyd. 1) Warszawa, Panstwowe Wydawn, Techniczne, 1956. 676 p.  
(Units of measure, 1st ed. illus., bibl., diags., graphs, index, tables.)

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

SZYMAŃSKI, H.

TECHNOLOGY

PERIODICAL: POMIARY, AUTOMATYKA, KONTROLA. Vol. 4, No. 11, Nov. 1958

SZYMAŃSKI, H. Precision of measurement, errors, corrections, and tolerance.  
Pt. 2 p. 493.

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

*Szymanski, J.*

POLAND / Chemical Technology. Chemical Products and Their Application. Cellulose and Its Derivatives. Paper. H

Abs Jour: Ref Zhur-Khimiya, No 9, 1959, 33541.

Author : Szymanski, J., Zielinski, J.

Inst : Not given.

Title : Determination of Sulfur in Waste Gases of Cellulose Sulfate Production.

Orig Pub: P rezgl. papiern., 1958, 14, No 9, 279-283.

Abstract: The methods of precipitation, colorimetric and potentiometrical titrations, and the method of determining the total amount of S by combustion, are examined. It is established that, for industrial supervision, the precipitation method and the method of S determination by combustion are the most appropriate. -- From the authors' summary.

Card 1/1

284

SZYMANSKI, Jerzy, mgr inż.

Interdependence and proportionality of the dimensions of the  
impeller of rotodynamic pumps. Przegl mech 23 no. 1: 4-9  
10 Ja '64.

1. Wieczorowe Studium Inzynierskie, Politechnika Śląska,  
Gliwice.



SZYMANEKI, J.

③ *Handwritten notes*

Journal of the Institute of Petroleum 135. Utilization of logging by natural gamma radioactivity for correlation of strata in boreholes. J. Strzetelski and J. Szymanski. *Bull. Polish Inst. Petrol.*, 1953, 3, 1. — A brief report on work of Geanalytical Division of Polish IP in the field of natural  $\gamma$  radiation carried out in old and new boreholes. This method enables correlation to be extended. Further work will include neutron logging. M. S.

*Handwritten: 5-11-54*

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APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754610013-3"

Distr: 4E3c/4E3d

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 ✓ 1683. NUCLEON POLARISATION IN A DECAY. J. Jizymadaki.  
 Bull. Acad. Polon. Sci. Cl. 3, Vol. 5, No. 9, 893-5 (1957).  
 With non-conservation of parity, the nucleons from  $\Lambda$  decay may  
 be polarized. The most general S-matrix element satisfying invari-  
 ance conditions is written down, and the resulting polarization is ob-  
 tained as a function of the constants appearing there. For an equal  
 parity conserving and parity non-conserving interaction, the polari-  
 zation is  $v/c$ , where  $v$  is the nucleon velocity. S.J. Goldsack

BS  
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*cmf*

POLAND/Nuclear Physics - Structure and Properties of Nuclei

C-4

Abs Jour : Ref Zhur - Fizika, No 9, 1958, No 19886

Author : Sawicki J., Szymanski J.  
 Inst : Warsaw University, Poland  
 Title : Polarization Effects in  $\beta$  Decay Accompanied by Internal Bremsstrahlung.

Orig Pub : Bull. Acad. polon. sci., 1957, Cl. 3, 5, No 9, 897-903

Abstract : The authors examine  $\beta$  decay of unpolarized nuclei, accompanied by internal bremsstrahlung. The degree of circular polarization of the internal bremsstrahlung  $P_\gamma = (I_+ - I_-) / (I_+ + I_-)$  is computed ( $I_+$  and  $I_-$  are the intensities of the right-hand and left-hand polarized quanta). They also consider the longitudinal polarization of the  $\beta$  particles  $P_\beta = \langle \sigma \cdot p/p \rangle$  (averaged over the polarization states of the  $\beta$  particles). The calculations are carried out under the assumptions of the two-component neutrino theory. For the case of allowed  $\beta^-$  transitions, neglecting Coulomb corrections for the degree of longitudinal polarization, the

Card : 1/3

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$$P_\gamma = P, P_e = \pi; \bar{P}_\gamma = -P, \bar{P}_e = -\pi;$$

$$P = (\omega p^2 \sin^2 \theta + K^3) \cdot [(E + \omega) p^2 \sin^2 \theta + K^3]^{-1},$$

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754610013-3"

$$\bar{P} = \frac{(\omega p^2 \sin^2 \theta + K^3)}{(E + \omega) p^2 \sin^2 \theta + K^3} \quad (1)$$

where  $p, E$  are the momentum and the energy of the electron  $\omega$  the energy of a quantum of internal bremsstrahlung,  $\theta$  the angle between the directions of emission of the electron and of the quantum,  $K^3 = E\omega^2 [1 - (p/E) \cos \theta]$ ;  $\hbar=c=1$ . In the case of  $\beta^+$  decay, the signs in formulas (1) must be

Card : 2/3

✓ Hyperfragment decay energy and angular distribution.  
I. L. Szymański (Univ. Warsaw). *Nuovo cimento* 10,  
834-43(1958)(in English).—Impulse approximation is ap-  
plied to the hyperfragment decay.  $\pi$  meson energy distribu-  
tion is obtained for the  $He^4_A$  case, neglecting  $\pi$ - $\alpha$  interaction.  
Results are compared and the validity of impulse approxi-  
mation is discussed. W. W. Sabol -

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Distr: 4E3c/4E3d

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Distr:  $\text{hE3a}(\omega)$  2 cys

19

~~$K^-$  scattering and  $K^- + p \rightarrow Y + \pi$  reactions. J. Szymanski (Univ. Warsaw). Bull. acad. polon. sci., Ser. sci., Math., astron. et phys. 7, 435-9 (1959) (in English).—~~  
 Calcns. by the Tamm-Dankoff method with neglected recoil are reported, based on the following assumptions: scalar coupling between the  $K$  and meson fields, pseudo-scalar coupling between the baryons and  $\pi$  meson, independence of the assumed symmetry and difference between renormalized baryon- $\pi$  coupling constns., and identical cut-offs for  $\pi$  interactions and for all baryons. The differences in mass between  $\Sigma$  and  $\Lambda$  were neglected and the terms up to those bilinear in coupling constns. were retained. The cross section for scattering agreed with exptl. data, while those for the reaction did not at all. J. Stecki

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SZYMAŃSKI, J.

17                      19                      6

The  $\pi^+$  decay of a hyperfragment. A. Deloff, J. Szymański, and J. Wrzecionko (Inst. Badan Jądrowych P.A.N., Warsaw). *Bull. acad. polon. sci., Ser. sci. Math., astron. et phys.* 7, 521-5(1959)(in English).—The decay  $\Delta He^+ \rightarrow H^+ + \pi + \pi^+$  was considered in the 1st order perturbation theory of weak processes (Ferrari and Fonda, *Nuovo cimento* 7, 320(1958)). The branching ratio  $\pi^+/\pi^-$  was estd. at  $10^{-2}$ . Only the  $\pi$  coupling was taken into account in the  $NAZ$  interaction. The  $K$  coupling is discussed.

J. Stecki

2/11  
L.K.

*RM*

Possibility of determining the spin of  $\Delta H^0$  from the angular distribution for mesonic decay // D. Chlebowska and J. Szymański (Inst. Badań Jądrowych, Warsaw), *Bull. acad. polon. sci., Sér. sci., math., astron. et phys.* 7, 643-9 (1959) (in English).—Energy and angular distribution in the decay  $\Delta H^0 \rightarrow \pi + \rho + \pi$  are estd. after Szymański's method (CA 53, 11013f) for  $s$  and  $p$  states separately. Dependence on the spin and  $p/s$  ratio, which cannot be detd. simultaneously, is small. J. Stecki

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9

Hyperfragments from the  $\Xi$  particle and the determination of the  $\Xi$  parity. J. Szymanski (Inst. Nuclear Research, Warsaw). ~~News - memo~~ 11, 730-2(1959) (in English).—The  $\Xi$  particle in the proximity of nucleons undergoes the fast reaction  $\Xi + N \rightarrow 2 \Lambda + 30$  m.e.v. Therefore, only those systems are stable where such a reaction is forbidden, either by large binding energy (e.g.  $^6\text{He}$  is stable because  $B_{\Xi} > 9.6$  m.e.v.) or because of conservation of total isotopic spin. Various interaction cases under consideration of the  $\Xi$  parity are discussed and existence criteria analyzed. Manfred Mannheimer

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4630

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MA

SZYMAŃSKI J.J.

Distr: 4E3e 2 cys.

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2

✓ Phenomenological theory of unstable particles. A. Krzywicki and J. Szymański (Inst. ~~Badan~~ ~~Atomowych~~ ~~Radcowych~~, Warsaw). *Polish Acad. Sci. Inst. Nuclear Research, Rept. No. 125/VII, 3 pp.* (1959) (in English); cf. Levy, *Nuovo cimento* 13, 115 (1959); Araki, *et al.*, *C.A.* 51, 11863g.—

A more accurate description of unstable particles in terms of stable-particle scattering properties is given on the basis of the S-matrix formalism.

A. Szymański

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S/137/62/000/005/056/150  
A006/A101

AUTHORS: Rutlowski, W., Szymanski, J.

TITLE: Measuring the specific surface of metal powders

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 34, abstract 5G222  
("Rudy i metale niezeli", 1961, v. 6, no. 8, 338-340, Polish;  
Russian, English, French and German summaries)

TEXT: A description is given of a method and equipment to measure the surface from low-temperature adsorption of N vapors with the aid of the Brunauer-Emmet-Teller equation. It is shown by the example of vortex Fe-powder that the specific surface is a linear function of the magnitude of powder particles. Low-temperature oxidation of Fe- and Cu powders at 300°C leads to an increase of the specific surface by more than twice.

R. Andriyevskiy

[Abstracter's note: Complete translation]

Card 1/1

GUBRYNOWICZ, L.; STRONICH, T.; SZYMANSKI, J.

Quantitative characteristics of gas products of air oxidation of  
coal under moderate temperatures. Gornictwo Gliwice no.9:33-48  
164.

SOKOLOWSKI, Eugeniusz; SZYMANSKI, Jan

On some functions of the organ of vision during application of respiratory hypertension. Acta physiol. Pol. 16 no.3:407-414 My-Je ' 65.

1. Wojskowa Akademia Medyczna w Leningradzie i Wojskowy Instytut Medycyny Lotniczej w Warszawie (Kierownik: doc. dr. Wl. Barcikowski).

JAWORSKA-BRYLICA, B.; SZYMANSKI, J.

Control of the course of flooding of crude oil deposits by  
means of isotopes. Wiad naft 8 no.12:279-280 D '62.

SZYMANSKI, J.; JAWORSKA-BYLICA, B.

Control of the flooding course of petroleum deposits by means of isotopes. Wiad naft 8 no.11:249-251 N '62.

S/169/63/000/001/062/062  
D218/D307

**AUTHORS:** Szymanski, Jan and Wyzlinski, Boleslaw

**TITLE:** Calibration of radiometric apparatus for radio-activity logging

**PERIODICAL:** Referativnyy zhurnal, Geofizika, no. 1, 1963, 36, abstract 1D204 ('Nafta' (Polska), 1962, v. 18, no. 8, 'Biul. Inst. Naftow', v. 12, no. 4, 7-8 (Pol.))

**TEXT:** Results of measurements of radioactivity in bore-holes are given in graphical form in units of 'pulses per minute'. In order to compare curves obtained from radioactivity logging under different conditions and with different apparatus, a method was developed for calibrating gamma and neutron logging apparatus and for the determination of the linearity of its characteristics. On the basis of the results obtained in USSR and USA, the units employed for gamma logging were taken to be microrentgens per hour. Neutron logging was carried out in terms of arbitrary units. A

Card 1/2



Calibration of radiometric ...

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D218/D307

calibrating station was set up and was equipped with gamma-radiation standards and neutron sources. Measurements showed that the sensitivity of different probes varied within considerable limits. The characteristic of the apparatus which was investigated was found to be linear up to counting rates of 3000 ppm.

[ Abstracter's note: Complete translation ]

Card 2/2

SZYMANSKI, Jan

Indications and contraindications for saline inhalations in Ciechocinek.  
Pol. tyg. lek. 17 no.52:2023-2025 25 D '62.

1. Z Kliniki Laryngologicznej AM w Warszawie; kierownik: prof. dr med.  
Jan Szymanski i Osrodka Naukowo-Leczniczego Kliniki Lagyngologicznej  
w Ciechocinku; lekarz naczelny Uzdrawiska Ciechocinek: dr med.  
C. Sadowski.

(INHALATION THERAPY) (RESPIRATORY DISEASES)  
(SODIUM CHLORIDE)

RUTKOWSKI, Wladyslaw, doc. dr inz.; SZYMANSKI, Jacek, mgr inz.

Surface measurements of metal powders. Rudy i metale 6  
no.8:338-340 Ag '61.

SOSNIERZ, Marian; SZYMANSKI, Jerzy

Pathomorphological changes in silicotic lungs of rats exposed to coal dust with a predetermined chemical composition. Pat. polska 14 no.4:417-428 O-D'63

1. Z Zakładu Anatomii Patologicznej Sl. AM w Zabrze (kierownik: prof.dr.med. W.Niepolomski) i z Katedry Chemii Ogólnej A Politechniki Slaskiej w Gliwicach (kierownik: doc.mgr.inz. E.Kowalska).

\*

SZYMANSKI, Jan, Bydgoszcz, Dworcowa, 12/7

100th anniversary of the laryngeal mirror. Polski tygod. lek. 10 no.5:  
156-158 1 Feb 55.

1. Z Zakł. laryngol. Bydgoskiego odd. inst. doskonalenia i specjalizacji  
kadr lekarskich przy szpitalu Antoniego Jurasza w Budgoszczy; kier.  
prof. dr. J.Szymanski.

(LARYNGOSCOPY, history

laryngeal mirror, contribution of Rosicki, Sebastian)

(BIOGRAPHIES

Rosicki, Sebastian)

BEUTLER-SZYMANSKA, Janina; SZYMANSKI, Jan

Effect of climatic conditions on pharyngeal adenoids in children. Otolar. polska 10 no.3-4:433-437 1956.

1. Z Zakładu Otolaryngologii I.D. i S.K.L. Oddziału Bydgoskiego, Kierownik Zakładu: prof. dr. J. Szymanski Bydgoszcz, Dworcowa 12.

(ADENOIDS, physiology,  
eff. of climate in child. (Pol))

(CLIMATE, effects,  
on adenoids in child. (Pol))

EXCERPTA MEDICA Sec 8 Vol 12/8 Neurology Aug 59

3834. TREATMENT IN THE COURSE OF THE TRANSVERSE SINUS THROMBOSIS - W sprawie postępowania w przebiegu zakrzepowego zapalenia zatoki poprzecznej - Szymański J. Zakł. Laryngol. I.D. i S.K.L. Oddz., Bydgoszczy - OTOLARYNG. POL. 1958, 12/2 (121-123)

The author ligates the jugular vein in the exceptional cases only. He does not remove the clot from the lumen of the transverse sinus but leaves it in situ. (XI, 8)

EXCERPTA MEDICA Sec 11 Vol 12/6 O.R.L. June 59

1116. A CASE OF SCHWANNOMA OF THE NECK - Przypadek nerwiaka osłon-  
kowego szyi - Szymański J. and Bardadin T. Klin. Laryngol. A.  
M., Warszawa - OTOLARYNG. POL. 1958. 12/3 (297-301) Illus. 3  
The authors present a case, originating most probably from the vagus nerve, in a  
28-year-old woman. A tumour of large size after extirpation caused the develop-  
ment of a manifold neurological syndrome, including Horner's syndrome and par-  
alysis of the IXth, XIth and XIIth nerves. (XI, 5, 16)



SZYMANSKI, Jan; SŁOTWIŃSKA, Ludmila

Neurological changes in glomus jugulare tumor (chemodactoma)  
of the middle ear. Otolaryngologia 14 no.1:61-67 '60.

I. Z Kliniki Otolaryngologicznej A.M.w Warszawie, Kierownik:  
prof. dr med. J. Szymanski.

(GLOMANGIOMA diag.)

(EAR MIDDLE neopl.)

(NEUROLOGICAL MANIFESTATIONS)

SZYMANSKI, Jan

2 cases of salivary tumors. Otolaryngologia polska 1' no.1:121-125 '60.

1. Z Kliniki Otolaryngologicznej A.M. w Warszawie, Kierownik:  
prof. dr med. J. Szymanski.

(SUBMAXILLARY GLAND neopl.)

(CYLINDROMA case reports)

(MIXED SALIVARY GLAND TUMOR case reports)

SZYMANSKI, Jan

Some considerations on mediastinitis. Otolar.polska 14 no.2:207-214 '60.

1. Z Kliniki Laryngologicznej A.M. w Warszawie, Kierownik: prof. dr med. J.Szymanski.

(MEDIASINITIS etiol)  
(ESOPHAGUS for bodies)

BISKUPSKA, Janina; SZYMANSKI, Jan

Laryngeal granuloma as a complication of intratracheal general anesthesia. Polski prze~~gl~~. chir. 33 no.5:481-484 '61.

1. Z Kliniki Otolaryngologiczenj A.M. w Warszawie Kierownik: prof. dr J. Szymanski.

(ANESTHESIA INTRATRACHEAL compl)  
(LARYNX dis) (GRANULOMA etiol)

SZYMANSKI, Jan, inz.; WYZLINSKI, Boleslaw, inz.

Classification of radiometric equipment for the profilogramming  
of radioactivity. Nafta Pol 18 no.8:Suppl.: Biul.Inst.Naft.  
12 no.4:7-8 '62.

SZYMAŃSKI, Jan; CHOMICKI, Oskar

Functional conditions of the thyroid in Meniere's disease according to clinical and isotope studies. Otolaryng. Pol. 16 no.1:83-86 '62.

1. Z Kliniki Laryngologicznej AM w Warszawie Kierownik: prof. dr. J. Szymanski i Ośrodka Radioizotopowego SDL AM Kierownik: prof. W. Hartwig.

(THYROID GLAND physiol) (MENIERE'S DISEASE physiol)  
(IODINE radioactive)

SZYMANSKI, Jan; MOSZYNSKI, Boguslaw

A case of reticulosarcoma of the frontal sinus. Polski tygod. lek.  
17 no.22:883-885 28 My '62.

1. Z Kliniki Otolaryngologicznej AM w Warszawie; kierownik: prof.  
dr med. J. Szymanski.

(FRONTAL SINUS neopl)

(SARCOMA RETICULUM CELL case reports)

ROLAND

SZYBANSKI, J. The Clinic of Laryngology AM (Academy of Medicine), Warsaw  
(Z Kliniki Laryngologicznej AM w Warszawie).

"Indications and Contraindications for Saline Inhalations in Ciechocinek."  
Warsaw, Polski Tygodnik Lekarski, Vol. 17, No 52, 24 Dec 62, pp 2023-2025

Abstract: The main types of apparatus used for inhalations in Ciechocinek  
are described. The author discusses the uses of this type of therapy in  
various diseases of the upper part of the respiratory tract.  
Seven references are cited, of which five are Polish.

1/1



KAPUSCINSKI, Witold Juliusz; KRUDYSZ, Jan; UHER, Miroslaw; SZYMANSKI, Jan

Use of ipronal in the treatment of glaucoma. Wiad. lek. 18  
no.4:321-323 15 F '65

1. Z Kliniki Ocznej Akademii Medycznej we Wroclawiu (Kierownik: prof. dr. W.J. Kapuscinski).

BYLICA, Barbara, mgr.inz.; SZYMANSKI, Jan, inz.

Control of hydraulic crevices with "reper" globules marked  
by radioactive isotopes. Nafta Pol 18 no.6 Suppl.: Biuletyn  
Instytutu Naftowego 12 no.2/3:4-5 '62.

KAPUSCINSKI, Witold J., prof. dr. med.; OGIELSKA, Eugenia; RUDKOWSKA,  
Anna; KRUDYSZ, Jan; UHER, Miroslaw; SEYMANSKI, Jan

Further research on the action of Ipronal in simple glaucoma,  
in relation to electroencephalography. Klin. oczna 35 no.2:  
213-217 '65.

1. Z Kliniki Ocznej (Kierownika prof. dr. med. W.J. Kapuscinski)  
i z Kliniki Neurologicznej Akademii Medycznej we Wroclawiu  
(Kierownika prof. dr. med. R. Arend).

SZYMANSKI, JERZY

POLAND/Chemical Technology, Chemical Products and Their  
Application, Part 1. - Corrosion, Protection from  
Corrosion.

H-4

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 32863.

Author : Stefan Pawlikowski, Iwo Pollo, Jerzy Szymanski.  
Inst : Polytechnical Institute of Silesia.  
Title : Influence of Hydrolytic Dissociation Products of  
Calcium Cyanamide on Inhibition of Iron Corrosion  
Process in Aqueous Solutions.

Orig Pub: Zesz. nauk. Politechn. slaskiej, 1957, No 12, 129-140.

Abstract: The study of the influence of calcium cyanamide (I)  
and of products of its hydrolysis on the change of  
the irreversible electrode potential (P) and the cor-  
rosion (C) of iron in: 1/ distilled water, 2/tap water,  
1.5%-ual melamine solution, 2%-ual  $[H_2(OH)_2]_2$  solu-

Card : 1/3

10

POLAND/Chemical Technology, Chemical Products and Their  
Applications, Part 1. - Corrosion, Protection  
from Corrosion.

H-4

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 32863.

sented. It is assumed that only  $\text{Ca}(\text{OH})_2$  is an inhibitor  
of C among the hydrolysis products of I. But in view  
of the fact that  $\text{Ca}(\text{OH})_2$  interacts with  $\text{CO}_2$  from the air,  
the possibility of its reaction with the corrosion medium  
should be limited.

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SZYMANSKI, Jerzy, mgr. inż.

Methods of bringing maps up-to-date in the U.S.S.R.  
Przeł geod 35 no.7:319-320 J1'63.

SZYMANSKI, Jerzy

Changes of the map contents with the course of time. Prace  
Inst geod 11 no.2:115-128 '64.

1. Submitted February 1964.

SZYMANSKI, Krzysztof, Mgr.inz.

The problem of turns of the road train.Pt.1. (To be contd).  
Techn motor 11 no.8:255-257 Ag '61.



SZYMAŃSKI, Krzysztof, Mgr.inż.

The problem of turns of the road train.Pt.2. (To be contd.)  
Techn motor 11 no.10:350-353 0 '61.

SZYMANSKI, Krzysztof, Mgr.inz.

The problem of turns of the road train.Pt.3. Tech motor 11 no.12:  
423-427 D '61.

SZYMANSKI, Krzysztof (Warszawa)

Problem of type series of low-loading trailers. Przegl  
budowl i bud mieszk 33 no.6:351-352 Je'61

SZYMANSKI, Krzysztof, mgr inz. mech.

Concrete mixing production plants in the U.S.S.R. Przegł  
budowl i bud mieszk 33 no.11:703-705 N '61.

SZYMANSKI, Krzysztof, mgr. inz.; RATAJCZAK, Janusz, mgr inz.

Research on the 4,5 T gantry crane. Przegł budowl i  
bud mieszk 34 no.9:567-568 S '62.

SZYMANSKI, Krzysztof, mgr inz.; RATAJCZAK, Janusz, mgr inz.

Measurements of the forces involved during the moving of  
the former Carmelite Church in the Leszno Quarter of the  
city of Warsaw. Pemiary 9 no.6:233-234 J. '63.

SZYMANSKI, Krzysztof, mgr. inż.

Studies on devices for pneumatic cement transportation  
on building grounds of water works. Przegl budowl i bud mieszk  
33 no.11:705-706 N '61.

SZYMAŃSKI, L.

Polish Technical Abstracts  
No. 4, 1953  
Building Industry and  
Architecture

2516

674.83 : 691.933

Smyjewski K., Jarosz J., Szymański L. The Influence of the Moisture Content in Raw Peat on Properties of Peat Insulating Plates.

„Wpływ wilgotności surowca torfowego na własności izolacyjnych płyt torfowych” (Prace Inst. Torf. No. 4), Elbląg, 1952, Inst. Torf., 22.5 pp., 3 figs., 13 tabs.

Tests carried out on a semi-technical scale proved that in the processing of raw peat the use of hollanders and the heating of the peat pulp cannot be recommended. Rough insulating peat plates made from previously dried peat, contain 3.8 to 5.0 kg less water than plates made from raw peat. The finished plates are, although lighter, less strong. The most suitable material for this purpose is peat dried to a moisture content of 63—55%. Chemicals usually added have no actual influence on the dehydration of peat pulp.



SZYMANSKI, L.

Technical basis of the Polish merchant marine; maritime repairing shipyards.  
p. 18.

PRZEGLAD TECHNICZNY. (Naczelna Organizacja Techniczna) Warszawa, Poland.  
Vol. 80, no. 25, June 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 8, Aug. 1959.

Uncl.

SZYMAŃSKI, L.

"How the Nitrogen Works in Kedzierzyn Started Production", P. 216.  
(CHEMIK, Vol. 7, No. 7/8, July/Aug. 1954, Katowice, Poland)

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

SZYMANSKI, M.

A case of miltown poisoning. Neur. &c. polska 8 no.4:523-526 July-Aug. 58.

1. Z Oddzialu Neurologicznego Panstwowego Szpitala dla Nerwowo i Psychicznie Chorych w Pruszkowie Dyrektor: dr F. Kaczanwski Ordynator: dr B. Stepien. Nowy Swiat 42/44, m. 10.

(MEPROBAMATE, pois.

(Pol))

(SUICIDE,

meprobamate pois. (Pol))

SZYMAŃSKI, Marian, mgr inż.

Analysis of certain factors connected with the geodetic and structural developments planned in villages. Pt. 2. Przegl geod 35 no. 6: 243-247 Je '63.