

WILCZYNSKI, Andrzej

Stress-deflection relationship in a case of simple tension
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no.2:105-114 '63.

1. Technical University, Warsaw.

RZYSKO, Jerzy, doc. dr inz.; WILCZYNSKI, Andrzej, dr inz., adiunkt

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Przegl mech 22 no. 23:715-717 10 D '63.

1. Department of Engineering Mechanics, Division of Mechanics
and Technology, Technical University, Warsaw.

WIŁOZYŃSKI, Andrzej, dr inż., adiunkt

Approximate strength calculations of strongly curved bars.
Przeł mech 23 no. 4: 100-102 25 F '64.

1. Katedra Mechaniki Technicznej, Politechnika, Warszawa.

WILOZYNSKI, Jersy (Warszawa, 24, Poleska 35)

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lek. 9 no.35:1113-1116 30 Aug 54.
(ANALGESICS, injurious effects,
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SZMIGIELSKI, Stanislaw; JELJASZEWICZ, Janusz; ~~WILCZYNSKI, Jan~~

Activity of the rabbit leucocytic system during experimental staphylococcal infection. Med. dosw. mikrobiol. 17 no.3:193-201 '65.

1. Z Zakladu Biochemii Drobnoustrojow Instytutu Biochemii i Biofizyki Polskiej Akademii Nauk w Warszawie (Kierownik: prof. dr. E. Mikulaszek), z Zakladu Bakteriologii Panstwowego Zakladu Higieny w Warszawie (Kierownik: prof. dr. E. Wojciechowski) i Zakladu Mikrobiologii Lekarskiej AM w Warszawie (Kierownik: prof. dr. E. Mikulaszek).

WILCZYŃSKI, K.

621.316.935

✓4183. Mechanical design of short-circuit-current-limiting reactors. K. WILCZYŃSKI. *Przegląd elektro-EEtech.*, 31, No. 2-3; 156-65 (1985) In Polish.

Three methods of estimating axial and radial forces in reactors are presented with corresponding graphs. Comparison of full design data of a 3-ph. 6kV, 400 A 6% impedance reactor indicates that the approximate method underestimates these forces while the Lyle and the Rayleigh methods give approximately the same correct answers.

J. LUKASZEWICZ

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Ferchmin, S.; Brzyski, W. Reducing production costs. p. 3.
PRZEMYSŁ SPOZYWCZY, Warszawa, Vol. 9, no. 1, Jan. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

WILCZYNSKI, Marian

An attempt of applying the callagene method for the determination of the relative age of quaternary animal bones. Biuletyn Geolog 1 no.1:156-166 '61.

1. Chair of Quaternary Geology and Department of Geological Cartography, University, Warsaw.

MOLL, Jan; WILCZYNSKI, Marian; SLIWINSKI, Marian; ADAMSKI, Stanislaw;
SKOTNICKI, Stanislaw

Our observations on deep hypothermia in open heart surgery. Polski
przegl. chir. 33 no.7/9:1048-1051 '61.

1. Z II Kliniki Chirurgicznej AM w Lodzi Kierownik: doc. dr J. Moll.
(HEART SURGERY anesth & analg)
(HYPOTHERMIA INDUCED)

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Examination of man and animals for tuberculosis in the Bialystok Region in 1960 and 1962. I. Gruzlica 31 no.6:738-741
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1. Wojewodzka Przychodnia Przeciwgruzlicza i Zaklad Higieny
Weterynaryjnej, Bialystok.

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WILCZYNSKI, Miroslaw

A case of congenital atresia of the posterior choanae in a newborn infant. Otolaryngologia Polska 15 no.2:229-231 '61.

1. Z II Kliniki Chorob Dzieci AM w Lodzi Kierownik: prof. dr med.
Fr. Redlich. Z Oddzialu Klinicznego Otolaryngologii Dzieciecej przy
Katedrze Chorob Dzieci AM w Lodzi. Kierownik Oddzialu: doc. dr med.
St. Kmita

(NOSE abnorm)

JANUSZEWICZ, Platon; WILCZYNSKI, Przemyslaw

Diaphragm molding. Metal i odlew 38 no.8:43-59. '61.

1. Katedra Technologii Formy Akademii Gorniczo-Hutniczej, Zaklad Technologii Formy.

WILCZY NSKI, S.

T raining miners. p. 29.

PRZEGLAD SPAWAINICTWA (Stowarsyzszenie Inzynierow i Technikow Mechankow
Polskich) Warszawa, Poland. Vo.11, No. 10/11, Oct./Nov. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 9, No. 2, Feb. 1959.

Uncl.

WILCZYNSKI, T.

"Dimensioning the foundation for three beams." p. 93. (INZYNIERIA I BUDOWNICTWO,
Vol. 11, no. 3, Mar. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, L. C., Vol. 3, No. 5, May 1954, Uncl.

WILCZYNSKI, T.

Transferable cable hauling devices.

p. 13 (Budownictwo Przemyslowe) Vol.4, no. 6, June, 1955, Warszawa, Poland

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

WILCZYNSKI, Tadeusz (Krakow)

Under water cementing of the reservoir bottom. Przegł budowl
i bud mieszk 34 no.6:344-345 Je '62.

WILCZYNSKI, Tadeusz (Krakow)

Application of sliding casings in the construction of thermal
electric plants. Przegl budowl i bud mieszk 36 no. 6:297-303
Jé 164.

WILCZYNSKI, Tadeusz, mgr inz. (Krakow)

Reinforcing ferroconcrete structures with corrugated bars. Przegł
budowl i bud mieszk 34 no.2:109-110 F '62.

WILCZYNSKI, W.

Watertight gypsum. p. 17

BUDOWNICTWO WIEJSKIE. (Ministerstwo Rolnictwa i Ministerstwo Panstwowych
Godpodarstw Polnych.) Warszawa, Poland. Vol. 2, no. 3, Mar. 1959

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

Uncl.

WILHELMI, Zdzislaw

Atomic nucleus physics in the Warsaw center. Postepy fizyki
13 no.3:237-252 '62.

WILCZYNSKI, Zdzislaw, mgr inz.

The Stebnik overthrust in the vicinity of Przemysl and its Flysch element. Nafta Pol 17 no.9:241-244 S '61.

1. Panstwowe Przedsiębiorstwo Poszukiwan Naftowych, Krakow.

WILCZYNSKI, Z.

SZYLAK, A.

In Olecko, index 16, 3, p. 4. A new state in the struggle for contracting and purchasing livestock. p. 5

ROLNIK SPOLDZIELCA (Centrala Rolniczej Spoldzielni "Samopomoc Chlopska")
Warszawa, Poland Vol. 8, No. 45, Nov. 1955

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uncl.

WILD, Antonin, inz.

Radio engineering at the Paris Aeronautical Exhibition.
Zpravodaj VZLU no.6:29-35 '61.

WILD, Antonin, inz.

Interesting items from avionics. Sdel tech 9 no.11:427-428 H '61.

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Influence of radio compass nondirectional antenna on the
indication of flying over the radio beacon. Zpravodaj
VZLU no. 6: 17-22 '62.

WILD, Antonin, inx

Electronic equipment for aircraft and rockets. Sidel tech 12
no. 2:71-72 F:64

WILDE, P.

An orthotropic plate with thin-walled non-symmetrical ribs. p. 273.

ROZPRAWY INZYNIERSKIE. (Polska Adademia Nauk. Instytut Podstawowych Problemow Techniki) Warszawa, Poland.
Vol.7, no.3, 1959.

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Uncl.

23902

P/033/60/012/002/007/008
D214/D301

10.9110 also 2808, 1327

AUTHOR: Wilde, Piotr (Gdańsk)

TITLE: A rectangular anisotropic plate with clamped edges

PERIODICAL: Archiwum mechaniki stosowanej, v. 12, no. 2, 1960,
241 - 258

TEXT: In this paper a method for a direct solution of the anisotropic plate equation is given. The amplitude of the deflection surface of an anisotropic rectangular plate with sides a and b resting on an elastic support with a load varying periodically and uniformly distributed constant forces n_x , n_y and n_{xy} acting in the plane of the plate (Fig. 1) should satisfy

$$\begin{aligned}
 & D_{11} \frac{\partial^4 w}{\partial x^4} + 4D_{16} \frac{\partial^4 w}{\partial x^3 \partial y} + 2(D_{12} + 2D_{66}) \frac{\partial^4 w}{\partial x^2 \partial y^2} + 4D_{26} \frac{\partial^4 w}{\partial x \partial y^3} + \\
 & + D_{22} \frac{\partial^4 w}{\partial y^4} - n_x \frac{\partial^2 w}{\partial x^2} - 2n_{xy} \frac{\partial^2 w}{\partial x \partial y} - n_y \frac{\partial^2 w}{\partial y^2} + (K - \mu\omega^2) w = q,
 \end{aligned} \tag{1.1}$$

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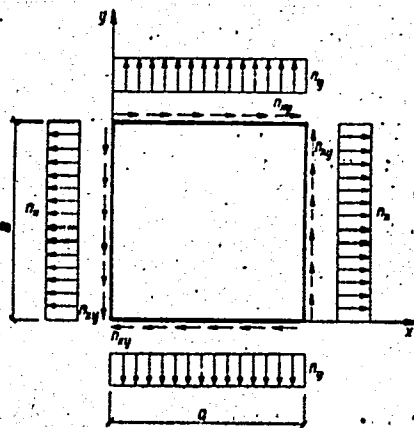
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Fig. 1.



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The deflection surface of the plate is represented as

$$w = w_1 + w_2 = \sum_{n,m=1}^{\infty} b_{nm} \sin \alpha_n x \sin \beta_m y + \sum_{n,m=1}^{\infty} a_{nm} \cos \alpha_n x \cos \beta_m y \quad (1.3)$$

where $\alpha_n = n\pi/a$, and $\beta_m = m\pi/b$ and the coefficient of the Fourier series b_{nm} , a_{nm} are determined from the condition that the solution Eq. (1.3) satisfies Eq. (1.1) and the boundary condition. For the orthotropic plate the solution is found to be

$$\begin{aligned} w(x,y) = \sum_{n,m=0}^{\infty} \frac{\lambda_{nm}}{\Delta_{nm}} \left\{ q_{nm} + D_x \frac{2}{a} [A_m^* - (-1)^n C_m^*] + \right. \\ \left. + D_y \frac{2}{b} [B_n^* - (-1)^m D_n^*] - \Delta_x \frac{b}{2} [E_m^* - (-1)^n G_m^*] - \right. \\ \left. - \Delta_y \frac{a}{2} [F_n^* - (-1)^m K_n^*] - 2 D_{xy} \frac{4}{ab} \left[\frac{\partial^2 w}{\partial x \partial y}(0,0) - (-1)^n \frac{\partial^2 w}{\partial x \partial y}(a,0) - \right. \right. \\ \left. \left. - (-1)^m \frac{\partial^2 w}{\partial x \partial y}(0,b) + (-1)^{n+m} \frac{\partial^2 w}{\partial x \partial y}(a,b) \right] \right\} \cos \alpha_n x \cos \beta_m y, \end{aligned} \quad (2.11)$$

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in which q_{nm} are the Fourier cosine coefficients of the load function and

$$\Delta_{nm} = a_n^4 D_x + 2 D_{xy} a_n^2 \beta_m^2 + D_y \beta_m^4 + K - \mu \omega^2 + n_x a_n^2 + n_y \beta_m^2$$

$$\Delta_x = D_x a_n^2 + 2 D_{xy} \beta_m^2 + n_x, \quad \Delta_y = D_y \beta_m^2 + 2 D_{xy} a_n^2 + n_y.$$

with the boundary conditions given by

$$\left\{ \begin{aligned} \frac{\partial^3 w}{\partial x^3}(0, y) &= \sum_{m=0}^{\infty} \lambda_m A_m^* \cos \beta_m y, & \frac{\partial^3 w}{\partial y^3}(x, 0) &= \sum_{n=0}^{\infty} \lambda_n B_n^* \cos a_n x, \\ \frac{\partial^3 w}{\partial x^3}(a, y) &= \sum_{m=0}^{\infty} \lambda_m C_m^* \cos \beta_m y, & \frac{\partial^3 w}{\partial y^3}(x, b) &= \sum_{n=0}^{\infty} \lambda_n D_n^* \cos a_n x; \end{aligned} \right. \quad (2.3)$$

$$\left\{ \begin{aligned} \frac{\partial w}{\partial x}(0, y) &= \sum_{m=0}^{\infty} \lambda_m E_m^* \cos \beta_m y, & \frac{\partial w}{\partial y}(x, 0) &= \sum_{n=0}^{\infty} \lambda_n F_n^* \cos a_n x, \\ \frac{\partial w}{\partial x}(a, y) &= \sum_{m=0}^{\infty} \lambda_m G_m^* \cos \beta_m y, & \frac{\partial w}{\partial y}(x, b) &= \sum_{n=0}^{\infty} \lambda_n K_n^* \cos a_n x, \end{aligned} \right. \quad (2.4)$$

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and the numerical example of an isotropic square plate loaded uniformly indicates the possibility of the use of cosine series for numerical work, as the condition that Eq. (1.3) satisfies Eq. (1.1) is shown to be equivalent to a set of algebraic equations

$$A_m \sum_{n=0}^{\infty} \frac{\lambda_{nm}}{\Delta_{nm}} + \sum_{n=0}^{\infty} \frac{\lambda_{nm}}{\Delta_{nm}} A_n = 0 \quad \text{for } m = 2, 4, \dots \quad (3.8)$$

Four cases can be distinguished depending on whether n, m are odd or even numbers separately and for a doubly symmetrical case, m = 1, 3, 5, ... and n = 1, 3, 5, ...

$$\left[\begin{aligned} & A_m \sum_{n=1,3,\dots}^{\infty} \frac{4 a_n D_{11} a_n k_{nm}}{a (k_{nm}^2 - l_{nm}^2)} + \sum_{n=1,3,\dots}^{\infty} \frac{4 a_n D_{22} \beta_m k_{nm}}{b (k_{nm}^2 - l_{nm}^2)} B_n - \\ & - P_m \sum_{n=1,3,\dots}^{\infty} \frac{4 a_n D_{11} l_{nm}}{a (k_{nm}^2 - l_{nm}^2)} - \sum_{n=1,3,\dots}^{\infty} \frac{4 a_n D_{22} l_{nm}}{b (k_{nm}^2 - l_{nm}^2)} S_n = \end{aligned} \right. \quad (4.21)$$

$$= \sum_{n=1,3,\dots}^{\infty} \frac{q_{nm} k_{nm} a_n}{k_{nm}^2 - l_{nm}^2}$$

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$$\begin{aligned}
 & \sum_{m=1,3,\dots}^{\infty} \frac{4\beta_m D_{11} a_n k_{nm}}{a k_{nm}^2 - l_{nm}^2} A_m + B_n - \sum_{m=1,3,\dots}^{\infty} \frac{4\beta_m D_{22} \beta_m k_{nm}}{b k_{nm}^2 - l_{nm}^2} - \\
 & - \sum_{m=1,3,\dots}^{\infty} \frac{4\beta_m D_{11} l_{nm}}{a k_{nm}^2 - l_{nm}^2} P_m - S_n - \sum_{m=1,3,\dots}^{\infty} \frac{4\beta_m D_{22} l_{nm}}{b k_{nm}^2 - l_{nm}^2} = \\
 & = \sum_{m=1,3,\dots}^{\infty} \frac{q_{nm} k_{nm} \beta_m}{k_{nm}^2 - l_{nm}^2}, \tag{4.21} \\
 & -A_m \sum_{n=1,3,\dots}^{\infty} \frac{4 D_{11} a_n l_{nm}}{a k_{nm}^2 - l_{nm}^2} - \sum_{n=1,3,\dots}^{\infty} \frac{4 D_{22} \beta_m l_{nm}}{b k_{nm}^2 - l_{nm}^2} B_n + \\
 & + P_m \sum_{n=1,3,\dots}^{\infty} \frac{4 D_{11} k_{nm}}{a k_{nm}^2 - l_{nm}^2} + \sum_{n=1,3,\dots}^{\infty} \frac{4 D_{22} k_{nm}}{b k_{nm}^2 - l_{nm}^2} S_n = - \\
 & - \sum_{n=1,3,\dots}^{\infty} \frac{q_{nm} l_{nm}}{k_{nm}^2 - l_{nm}^2},
 \end{aligned}$$

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$$\begin{aligned}
 & \left[- \sum_{m=1,3,\dots}^{\infty} \frac{4}{a} \frac{D_{11} \alpha_m l_{nm}}{k_{nm}^2 - l_{nm}^2} A_m - B_n - \sum_{m=1,3,\dots}^{\infty} \frac{4}{b} \frac{D_{22} \beta_m l_{nm}}{k_{nm}^2 - l_{nm}^2} + \right. \\
 & \left. + \sum_{m=1,3,\dots}^{\infty} \frac{4}{a} \frac{D_{12} k_{nm}}{k_{nm}^2 - l_{nm}^2} P_m + S_n - \sum_{m=1,3,\dots}^{\infty} \frac{4}{b} \frac{D_{22} k_{nm}}{k_{nm}^2 - l_{nm}^2} = - \right. \\
 & \left. - \sum_{m=1,3,\dots}^{\infty} \frac{q_{nm} l_{nm}}{k_{nm}^2 - l_{nm}^2} \right] \quad (4.21)
 \end{aligned}$$

is obtained. A numerical example is solved dealing with a square plate uniformly loaded and principal directions of orthotropy coinciding with the diagonals of the plate, and a model test is performed in order to verify the theoretical solution. The experimental analysis confirmed the theoretical solution. There are 4 figures, 1 table and 3 Soviet-bloc references.

SUBMITTED: October 24, 1959

Card 7/7

KAZIMIERCZAK, Roman; WILDE, Piotr

Application of the tensiometric method in experimental plate analysis. Budown ladowe no.4:35-91 '61.

1. Katedra Mechaniki Budowli, Politechnika, Gdansk

WILDE, P.

Finite displacements in thin plates due to steady-plate temperature fields. Bul Ac Pol tech 10 no.8:497-502 '62.

1. Department of Building Mechanics, Technical University, Gdansk.
Presented by W. Nowacki.

WILDE, P.

The invariant form of the Karaman equations. *Bul Ac Pol tech*
11 no.3:129-132 '63.

1. Department of the Theory of Structures, Technical University
Gdansk. Presented by W. Olszak.

WILDE, P.

The application of the problem of finite deflections of thin plates to the analysis of the post-buckling behavior of plates due to temperature fields. Bul Ac Pol tech 11 no.4: 151-155 '63.

1. Department of the Theory of Structures, Technical University, Gdansk. Presented by M.Olszak.

ACCESSION NR: AP3008942

P/0033/63/015/003/0435/0456

AUTHOR: Wilde, Piotr

TITLE: Postbuckling behavior of plates due to a temperature field

SOURCE: Archiwum mechaniki stosowanej, v. 15, no. 3, 1963, 435-456

TOPIC TAGS: postbuckling plate behavior, plate buckling, buckling, heat induced buckling, temperature field, thin plate, shallow shell, bending rigidity, finite bending rigidity, zero bending rigidity

ABSTRACT: Using solutions obtained in a previous paper (P. Wilde, Finite displacements in thin plates due to steady-state temperature fields. Arch. Mech. Stos. 2, v. 15, 1962), the author analyzes the postcritical behavior of plates buckling in a temperature field. It is assumed that the strains are infinitesimal but the displacements large, that Hooke's law is valid, and that the coefficient of thermal expansion is constant. With the aid of variational calculus, differential equations are derived, which in the case of constant temperature correspond to Karman equations. Natural boundary conditions of the problem are also obtained. An energy-based mathematical approach is used, since it yields a consistent approximation of the problem within the limits of the stated assumptions. In the case when the effect of bending

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rigidity can be ignored, the problem has an infinite number of solutions. These solutions can be used as subgroups for solving the problem of plates with finite bending rigidity in the case of free-end boundary conditions. In this way it is established that the energy of bending the strained plates must reach a minimum (assumed a priori in the work cited), though only in the case of plates with stress-free edges. Mathematically, the reduced relationship amounts to a minimization of the integral of the square of the mean curvature. Thus in the case of negligible bending rigidity, the problem can be formulated by purely geometric methods. The author also considers the "simplified finite bending rigidity problem," i.e., that in which the plate thickness is so small that the deformation surface differs only slightly from that obtaining in the corresponding zero bending rigidity problem. The problem is linearized by assuming the additional displacements to be small, so that their squares may be omitted. The problem is reduced to the solution of a shallow shell, the form of the shell being given by the displacements corresponding to the zero bending rigidity problem. The solution is applicable only in exceptional cases, however. The general case permits the use of exact numerical methods, whereas approximate methods must be used for shallow shells. Finally, the case of a ring plate subject to an axially symmetric temperature field is considered. The simplest solution for the case of a stationary temperature field without losses of heat to the environment is obtained and is the same as that for a shallow conical

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shell. A solution is obtained which is expressed in terms of Thomson functions with index two. It is concluded that the author's solutions are applicable only in the case of very thin plates. Orig. art. has: 5 figures and 109 formulas.

ASSOCIATION: Technical University, Gdansk

SUBMITTED: 08Jan63

DATE ACQ: 24Oct63

ENCL: 00

SUB CODE: 00

NO REF SOV: 001

OTHER: 006

Card 3/3

ACCESSION NR: AP4038483

P/0033/64/016/001/0081/0092

AUTHOR: Wilde, Piotr (Gdansk)

TITLE: The thermal buckling of a thin plate in the form of a minimal surface

SOURCE: Archiwum mechaniki stosowanej, v. 16, no. 1, 1964, 81-92

TOPIC TAGS: plate stability, plate buckling, thermal buckling, minimal surface, zero curvature surface, negative Gauss curvature, thermal plate buckling

ABSTRACT: The problem of determining the shape of the distorted surface of a thin plate in a given temperature field is the subject of the paper. The case of a minimal-surface buckling (i.e., a surface with the mean curvature equal to zero) is analyzed under the assumption that the function approximating the given temperature field makes possible a solution within the class of minimal surfaces.

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51"

ACCESSION NR: AP4038483

The problem is solved by utilizing analytical functions. The one-dimensional problem for a half-space and for an infinite plate with a circular hole and a radial cut are analyzed in detail and the results obtained are checked experimentally. The satisfactory agreement between analytical and empirical values of deflections in both cases is shown in diagrams. Orig. art. has: 64 formulas and 4 figures.

ASSOCIATION: Technical University of Gdansk

SUBMITTED: 08Jun63 / DATE ACQ: 12Jun64 ENCL: 00

SUB CODE: ME NO REF SOV: 002 OTHER: 003

Card 2/2

WILDMANN, Gyorgy

TV-DX television distance reception. Radiotechnika 15 no.7:264-
266 J1 '65.

SKARZYŃSKI, Zygmunt, mgr inż.; WLEŃSKI, Piotr, inż.

Tests and observations on experimental road sections in 1963.
Techn drog prace no.1:173-187 164.

15.2600

31734

S/081/61/000/021/047/094
B151/B101

AUTHOR: Wil'dflush, R. T.

TITLE: Investigation of glass formation and some physico-chemical properties of glasses with the composition $Na_2O - K_2O - BaO - CaO - SiO_2$

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 306, abstract 21K251 (Sb. nauchn. tr. Belorussk. politekhn. in-t, no. 86, 1960, 65 - 70)

TEXT: The synthesis of five-component glasses with the composition $Na_2O - K_2O - BaO - CaO - SiO_2$ has been carried out using the two optimum glasses obtained from the series of ternary systems studied previously (RZhKhim., 1957, no. 1, 1595). The results of the various melting processes are given in a table. It is suggested that at the melting point (1400°) of the glasses being synthesized the silicates $Na_2O \cdot 2SiO_2$, $K_2O \cdot 2SiO_2$, $CaO \cdot SiO_2$, and $BaO \cdot 2SiO_2$ are formed. The mean basicity and acidity of the glasses

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Investigation of glass formation and ...

varies very little. On the other hand, the content and ratio of the Me^{2+} and SiO_2 oxides changes considerably, as well as the amount of unbound SiO_2 . These variations affect the properties of the various glasses. In the glasses synthesized, the ratio $O/Me^{2+} + M^{2+}$ was < 3.9 . These glasses lie on the boundary between the so-called "normal" and "non-normal" glass groups. Judging from the characteristics obtained the glasses in question had better physico-chemical properties than the original three-component glasses. A number of compositions are recommended for industry.

[Abstracter's note: Complete translation.]

Card 2/2

WILDMANN, Gyorgy

Remark on the article entitled "Rhombus antenna for long-distance reception." Radiotechnika 15 no.3:99-101 Mr '65.

WILDMANN, J.

How to improve the economy of heat in factories producing building blocks. p. 162;
STAVIVO, Praha, Vol. 33, no. 5, May 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

WILDMANN, J.

Wildmann, J. How to improve the economy of heat in factories producing building blocks. p. 162.

SO: Monthly List of the East European Accessions. (KEAL). LC. Vol. 4, no. 10, Oct. 1955. Uncl.

HURNIK, Stanislav; WILDOVA, Jarmila

Present state of the research on underlying strata of the central part of the north Bohemian lignite basin. Cas min geol 9 no.4: 403-412 '64.

1. Research Institute of Lignite, Most. Submitted October 29, 1962.

CZECHOSLOVAKIA

HUZEK, S; WILDOVA, J.

Research Institute for Brown Coal (Vyskumny ustav pro hnede uhl), Most (for both)

Prague, Časopis pro mineralogii a geologii, No 4, 1964, pp 403-411

"Investigation of the 'underlying' Seams in the Central Part of the North Bohemian Basin."

SYKORA, I.; WILDT, S.; HRADIL, F.; LORENCOVA, D.

Daily variation of exploratory activity in mice. *Activ. nerv.*
sup. 6 no. 1:33-34 '64

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CZECHOSLOVAKIA

WILDZKOWSKI
BUKOWCZYK, Adam; WILDZKOWSKI, B. prof.dr., kierownik.

Procedure in largactil therapy at the psychiatric clinic of
the Academy of Medicine of Lods. Neur. & c.polska 5 no.4:
431-434 July-Aug '55.
(CHLOROPROMAZINE, therapeutic use,)

WILEJTO, Eugeniusz; LUCZAK, Jan

Mechanized washing of passenger cars. Przegł kolej mechan
13 no.8:250-251 Ag '61.

PACHOWSKI, Jan, mgr inz.; SŁUPSKI, Witold, inz.; WILENSKI, Piotr, inz.

Studies on the use of fly ash for soil stabilization in road construction. Techn drog prace 1:9-26'61.

KICZAK, Janina; LAPIS, Janusz; WILEWSKI, Edward.

Case of plasma-cell leukemia. Pol. tyg.lek. 18 no.47:1766-1768
18 N°63.

1. z II Kliniki Chorob Wewnętrznych Pomorskiej AM w Szczecinie;
(kierownik: prof. dr. med. Edward Gorzkowski) i z Zakładu Ana-
tomii Patologicznej Pomorskiej AM w Szczecinie (kierownik: prof.
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ZMYŚLOWSKA, Stanisława; WILGAIN, Simone

Research on the natural radioactivity of soils. -Distribution of the alpha radioactivity in some soil profiles. Nukleonika 6 no.12:813-826 '61.

1. Szkoła Główna Gospodarstwa Wiejskiego, Warszawa (for Zmysłowska).
2. Institut Interuniversitaire des Sciences Nucleaires, Bruxelles (for Wilgain).

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p. 99. Vol. 27, no. 1, 1956 Wroclaw
CZASOPISMO GEOGRAFICZNE

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

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The question of names for the cardinal points. p. 191.
(GEOGRAFIA W SZKOLE. Vol. 10, no. 4, July/Aug. 1957, Warszawa, Poland.)

SO: Monthly List of East European Accessions (MEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

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From researches on the subterranean waters of the Lublin Uplands. p. 221.

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Poland, Vol. 12, no. 1/6, 1957 (published 1959).

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Geomorphological and hydrographic conditions in the Węprz-Krzna canal zone.

F. 259 (PRZEGLĄD GEOGRAFICZNY. POLISH GEOGRAPHICAL REVIEW.) Poland, Vol. 29,
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499-507 '58. (EEAI 9:8)
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32 no.2:183-205 '61.

WILGAT, Tadeusz

The rate of flow of Albania's rivers. Przegł geogr 34 no.1:25-74
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Tadeusz Wilgat. Przegl geogr 34 no.4:800-801 '62.

WILGAT, Tadeusz

Report on a scientific meeting on water management in Lublin
Voivodeship. Przegl geogr 35 no.3:531-539 '63.

WILGAT, Tadeusz

Achievements of Polish hydrogeography. Przegl geogr 35 no.3:
327-351 '63.

WILGAT, Tadeusz

State and development prospects of hydrogeography in Poland.
Czasop geograf 35 no.3/4:317-325 '64

WILGATOWA, Krystyna (Lublin, ul. Godebskiego 6.)

On the geography of the state of Connecticut. *Czasopismo geograficzne*
32 no.4:427-438 '61.

WILGATOWIE, K.

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GEOGRAFIA W SZKOLE, Warszawa, Vol. 8, no. 2, Mar./Apr. 1955.

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Uncl.

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SO: Monthly List of East European Accessions, (GEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

TEUCHMAN, Jan Karol, prof.dr. med.; KOROLKIEWICZ, Zbigniew; KUHCINSKI,
Wladyslaw; WILGUSZ, Zdzislawa

Comparative research on certain properties of sulphonamides with
extended effect. Farmacja Pol 16 no.18:382-383 S '61.

1. Zaklad Farmakologii, Akademia Medyczna, Gdansk. Kierownik:
prof.dr.med J.K. Teuchmann.

WILHELM, Ervin, dr.

When ambulance cars sound the siren. Auto motor 16 no.5:25 6 Mr '63.

1. Orszagos Mentoszolgalat kozponti szolgalatvezeto foorvosa.

WILHEIM, G.
CA

The preparation of *p*-acetamidobenzaldehyde thiosemicarbazone. George Wilhelm (Univ. Szeged, Hung. I. *Acta Univ. Szeged, Chem. et Phys.* 3, 51-6 (1950) (in English)). — $p\text{-H}_2\text{NC}_6\text{H}_4\text{CH}_2\text{NHNHC}_6\text{H}_5$ (I), m. 192-3°, was obtained in 25-g. yield by refluxing *p*-O₂NC₆H₄Me (6), NaS (36, S 15 g., EtOH 300 ml., NaOH 27 g., and water 720 ml., followed by steam distn. to remove *p*-toluidine, addn. of 30 g. H₂NNHC₆H₅, letting stand 24 hrs., filtering, and drying. *p*-AcNH₂C₆H₄CH₂NHNHC₆H₅, m. 225°, was prepd. in 1.73-g. yield, by treating 1.78 g. I with 1.02 g. Ac₂O and 3 ml. anhyd. C₆H₆N, heating for a short time on a steam bath, letting stand, filtering, and drying. István Finály

HUNGARY / Physical Chemistry. Molecule. Chemical Bond. B-4

Abs Jour: Ref Zhur-Khimiya, No 2, 1959, 3659.

Author : Paunoz, R. and Wilhelm, I.

Inst : Not given.

Title : The Theoretical Investigation of Condensed Aromatic Compounds. II. Terylene, Quaternylene [sic], and Terantene.

Orig Pub: Magyar tud Akad Kem Tud Oszt Közsl, 7. No 2, 269-276 (1956) (in Hungarian).

Abstract: See RZhKhim, 1958, 3491.

Card 1/1

1

Wilhelm, I.

B-4

HUNGARY/Physical Chemistry - Molecule, Chemical Bond.

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3491.

Author : R. Pauncz, I. Wilhelm.

Inst : Academy of Sciences of Hungaria.

Title : Theoretical Examination of Condensed Aromatic Compounds,
II. Terylene, Quaternylene and Teranthene.

Orig Pub: Acto chim. Acad. sci. hung., 1957, 11, No 1-2, 63-71.

Abstract: The link lengths, free valency indices and wave numbers of the first allowed electron transitions were computed by the simple MOLKAO method for the first terms of the polyrylene and poly-anthene series (terylene, quaternylene, teranthene). The results received for bis-anthene previously (part I, RZhKhim., 1956, 53607) are quoted for comparison. It was found that 1) the length of links connecting separate naphthalene (or, correspondingly, anthracene) structural units is greater than all the other link lengths in the molecule and vary between 1.440 and

Card : 1/2

-1-

HUNGARY/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3491.

1.445 A in the polyrylene series and between 1.440 and 1.430 A in the polyanthene series; 2) the greatest free valency index value in one and the same series is that of C atoms, which occupy analogous positions; 3) the shift of wave numbers of the first allowed electron transitions to the side of lesser values with the increase of the order number in the series takes place more rapidly than in the polyacene series and agrees qualitatively with the regularity observed by Klar (Klar. E., Chem. Ber., 1948, 81, 52.).

Card : 2/2

-2-

WILHELM, Ferenc, okleveles gepeszmernok

Planer type milling machines. Gep 17 no.3:101-105 Mr '65.

1. Head, Designing Group of the Csepel Machine Tool Factory,
Budapest.

POISONINGS

YUGOSLAVIA

WILHELM, Katja; Institute of Medical Research and Occupational Medicine
(Institut za medicinska istrazivanja i medicinu rada,) Zagreb.

[Title:] "Treatment of Poisoning with Organic Phosphates with Particular
Emphasis on Use of Reactivators of Inhibited Cholinesterase."

Zagreb, Arhiv za Higijenu Rada i Toksikologiju, Vol 16, No 4, 1965; pp
357-386.

Abstract [English summary modified]: Very comprehensive review: inhibition
and reactivation of cholinesterase; hydrolysis of substrate; inhibition,
reactivation with nucleophilic reagents, spontaneous reactivation, aging
of inhibited cholinesterase; mode of toxicologic effect and symptoms; types
of therapy possible, decomposition of inhibiting toxin externally and in
the body, protecting substances, acetylcholine-receptor blockers, oximes,
effects of atropine and oximes. Many structural formulae and reaction
flow charts; 4 tables; 1 Yugoslav and 143 Western references; ms received
23 Sep 65.

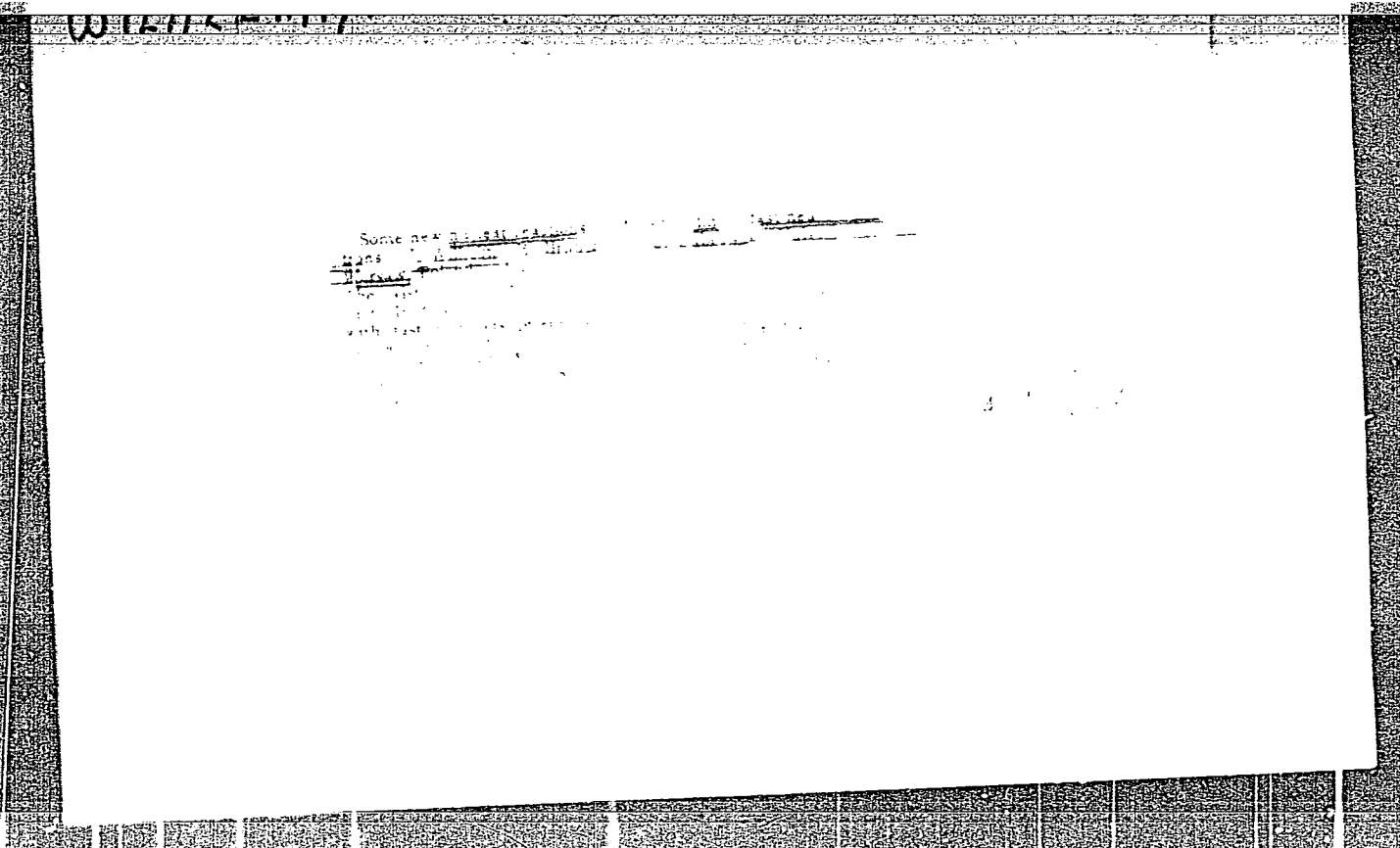
1/1

WILHELMI, Z.
CH

A method of determining the efficiency of radium-beryllium neutron sources. M. Danyss and Z. Wilhelmi (Univ. Warsaw, Poland). *Acta Phys. Polon.* 11, No. 1, 71-4 (1951).—The no. of neutrons emitted by a 35.5-mg. Ra-Be source (2 g. of Be) was detd. by activating Ag disks in a AgNO₃ soln. 15.3×10^6 (4.16%) neutrons are emitted per sec.

J. R. Hudgens

1952



WILHELM, J. Z.

"Diffraction of neutrons as an instrument of structural research."
Postępy Fizyki, Warsaw, Vol 4, No 4, 1953, p. 413

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

POL. =

Handwritten signature or initials

Wilhelmi, Z.

POLAND/Nuclear Physics - Nuclear Reactions

C-5

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 10252

Author : Wilhelmi, Z., Pirogov, N.I.

Inst : ~~Not Given~~

Title : The $^{121}\text{Sb}(\nu, p)^{121}\text{Sn}$ Reaction

Orig Pub : Bull. Acad. polon. sci., 1957, Cl, 3, 5, No 4, 401-405, XXXII

Abstract : The authors have measured the ratios of the cross sections of the reactions $\text{Sb}^{121}(\nu, p)\text{Sn}^{121}$ and the $\text{Fe}^{56}(\nu, p)\text{Mg}^{56}$. Use was made of neutrons from the reaction $\text{Be}^9(d, n)\text{B}^{10}$, which have a continuous spectrum with a maximum energy of 14.8 Mev. Irradiation of Sb and Fe was simultaneous under identical conditions. The tin was separated from the irradiated antimony chemically. The losses of tin in the separation were determined by the activation method. The ratio of the cross sections, which was found to be 0.040 ± 0.010 , is in agreement with the value of the ratio calculated on the basis of the statistical theory of nuclear reactions, which equals 0.050.

Card : 1/1

20566

P/046/60/005/007/005/007
D219/D304

24.6600

AUTHOR:

Wilhelmi, Zdzisław

TITLE:

Studies on the atomic nucleus structure with reactor
"EWA"

PERIODICAL: Nukleonika, v. 5, no. 7-8, 1960, 467 - 480

TEXT: This paper, presented at the reactor conference of Socialist countries at Rossendorf (GDR), held from June 13-18, 1960, reports on work performed by and proceeding in the I-A Department of Nuclear Physics of the Institute of Nuclear Research, Warsaw. The department is interested primarily in medium and low energy reactions and B- and γ -spectroscopy, and has at its disposal a 800 keV cascade accelerator, a d-t neutron generator, and two channels in the WWR-S "EWA" reactor. A 3 MeV Van de Graaf and a 10 MeV proton linear accelerator are under construction, and the services of a 30 MeV betatron being built at another Institute. [Abstractor's note: Unspecified] will also be available. The author first deals with the
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D219/D304

Studies on the atomic ...

measurement of the γ -ray and neutron spectra emerging from the horizontal reactor channels. The γ -spectrum, measured with a single crystal NaI spectrometer, was in reasonable agreement with theoretical predictions, and the neutron spectrum was examined with gold and copper activation detectors. The neutron beam was used for an investigation of potential scattering. Results in the resonance region were treated by the K.K. Seth method (Ref. 5: Proc. Gatlinburg Conference on Neutron Physics 1956. ORNL 2309 p.5), and Table 2 shows the measured values of the potential scattering cross-sections, σ_p , and the apparent nuclear radius R' , derived on the basis of the optical model, with some Brookhaven results for comparison. Fig. 3 shows a comparison between the experimental results and the predictions of the optical model with complex potential, the discrepancies being attributed to the non-spherical form of nuclei. The next topic concerns fission followed by the emission of an energetic (8-30 MeV) α -particle. Studies have been made on U^{235} and Pu^{239} with a double ionization chamber, one half of which de-

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Studies on the atomic ...

tests the fission fragments and the other half the α -particles. The results shown in Fig. 5 indicate that the energy distribution of fission fragments in this case differs considerably from that in the normal double fission. An experiment is in progress to measure the mass ratio for these heavy fragments. The majority of β - and γ -ray spectroscopy in the department is performed with isotopes, produced by high energy proton bombardment carried out at the Joint Institute at Dubna, and only relatively short-lived isotopes are produced in the "EWA" reactor. The latter only are considered in this paper, and mention is made of an examination of the 44-minute isomeric state of Hg^{199} which passes to the ground state through successive 370 and 158 keV transitions. It has been shown that this transition is type M4 with an admixture of not more than 11% M5. The decay scheme of Ho^{167} is to be studied, and a spectrometer with transverse magnetic field and photographic plate detection is being built for the study of isotopes with half-lives of the order of 1 minute. β - γ correlations have been studied for Ne^{23} using resonance fluorescence, but no results are given. Finally, the author reports

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D219/D304

Studies on the atomic ...

on three neutron choppers in the course of construction. The two fast choppers have boundary energies of 1 and 20 eV, and the boundary energy of the slow chopper may be varied from $7 \cdot 10^{-4}$ to $1.8 \cdot 10^{-2}$ eV. There are 10 figures, 2 tables and 18 references: 11 Soviet-bloc and 7 non-Soviet-bloc. The references to the four most recent English-language publications read as follows: K.K.Seth, Proc. Gatlinburg Conference on Neutron Physics, 1956. ORNL 2309, p.5; Herrmansfeldt, Maxson, Stähelan, and Allen, Phys.Rev. 107, 641, 1959; Goldhaber, Sunyer, and Grodzins, Phys. Rev. 109, 1015, 1958; R.R. Lewis, and R.B. Curtis, Phys.Rev. 110, 910, 1958.

ASSOCIATION: Polish Academy of Sciences, Institute of Nuclear Research, Warsaw

SUBMITTED: May 9, 1960

Card 4/7

X

P/046/60/005/007-8/005/007
A224/A026

24.6510

AUTHOR: Wilhelmi, ZdzisławTITLE: Studies on the Atomic Nucleus Structure With Reactor "EWA"PERIODICAL: Nukleonika, 1960, Vol. 5, No. 7-8, pp. 467-480

TEXT: The paper presented at the reactor conference of Socialist Countries, convened at Rossendorf on June 13 to 18, 1960, and written in English language, presents the results of investigations on the nucleus structure carried out in the Zakład Fizyki Jądra Atomowego Instytutu Badań Jądrowych) Dept. of Atomic Nucleus Physics of the Institute of Nuclear Research) by the application of EWA reactor. The research program of the I-A Department of Atomic Nucleus Physics is restricted to 1) nuclear reactions of medium and low energies and to 2) beta and gamma spectroscopy. The experimental work has been conducted on gamma radiation and neutron spectrum from a horizontal channel, potential scattering of the neutron beam, fission process followed by emission of high-energy (8-30 Mev) alpha particles, and the tripartition process. Some results of the experiments are given. Research is planned on gamma radiation of the transitions from individual neutron levels to the ground state and to

Card 1/2

P/046/60/005/007-8/005/007
A224/A026

Studies on the Atomic Nucleus Structure With Reactor "EWA"

the low states. There are 10 figures, 2 tables and 18 references: 13 English,
2 Soviet, 2 Polish and 1 French.

ASSOCIATION: Polish Academy of Sciences, Institute of Nuclear Research, Warsaw

SUBMITTED: May 9, 1960

VB

Card 2/2

S/058/62/000/010/004/093
A061/A101

AUTHOR: Wilhelmi, Zdzisław

TITLE: The Warsaw Center of Nuclear Physics

PERIODICAL: Referativnyy zhurnal, Fizika, no. 10, 1962, 1, abstract 10B5
("Rept. Inst. badań jądrow. PAN", 1961, no. 279/1 - A, 29 pp.,
English; summaries in Polish and Russian)

TEXT: The history of the foundation and the development of the nauchno-
-issledovatel'skiy fizicheskiiy tsentr (Physical Scientific Research Center) in
Warsaw is outlined. The main directions of research and achievements in the fields
concerned are indicated. Lists of papers published by the Center as from 1945,
as well as of reports presented at various conferences, are given in conclusion.

[Abstracter's note: Complete translation]

Card 1/1

L 13143-63

EWT(m)/BDS/ES(w)-2 AFFTC/ASD/ESD-3/SSD Pab-4 IJP(C)

P/O46/63/008/001/001/001

68

66

AUTHORS: Bobrowski, L.; Wilhelmi, Z.; Górski, E.; Marcinkowski, A.;
Sołtan, A.; Jaskóła, M.

TITLE: "Lech" pressurized electrostatic accelerator 19

PERIODICAL: Nukleonika, v. 8, no. 1, 1963, 1-28

TEXT: This paper describes a 3 Mev pressurized electrostatic accelerator developed and constructed at the Zakład (I-A) Fizyki Jądra Atomowego (Laboratory of Atomic Nucleus Physics) of the Instytut Badań Jądrowych (Nuclear Research Institute) in Warsaw, in collaboration with the Katedra Fizyki Jądra Atomowego Uniwersytetu Warszawskiego (Department of Nuclear Physics of Warsaw University). The described apparatus is a vertical van de Graaf generator operating in air or in a 70% N₂ and 30% CO₂ mixture. Operating pressure does not exceed 16 atm (6 atm in air). Its maximum potential, obtained without calming tube, is 3000 kV + 5%. The generator produces 2500 kv and its natural voltage stability is about 1%. This value can be corrected to 0.1% by means of a rotary voltmeter and corona tube. The maximum short circuit current in air at atmospheric pressure is 600 μa.
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L 13143-63

P/046/63/008/001/001/004

"Lech" pressurized electrostatic accelerator

The target current is 50 μ a, whereby the beam trace does not exceed 10 mm. At smaller currents the beam can be reduced to 2-3 mm. The vacuum in the tube is not less than $5 \cdot 10^{-6}$ mm Hg without ion beam and better than $5 \cdot 10^{-5}$ mm Hg with beam in calming tube. Nuclear reactions were produced in January 1961. These were $Li^7(p,\gamma) Be^7$ and neutrons of $Li^7(p,n) Be^7$.

Card 2/4

L 13143-63

P/046/63/008/001/001/001

"Lech" pressurized electrostatic accelerator

0

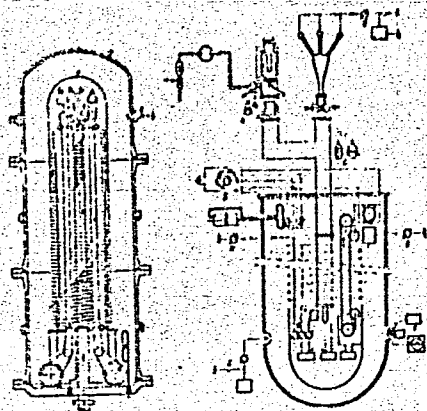


Fig. 1. Principle diagram of accelerator

Fig. 2. Accelerator measuring circuit

1-electrostatic ion source; 2-calming tube; 3-band; 4-engine; 5-spray points; 6-cooling coil; 7-recharging points; 8-corona tube; 9-rotary voltmeter; 10-viewing window; 11-high-voltage electrode; 12-pile.

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L 13143-63

P/046/63/008/001/001/001

"Lech" pressurized electrostatic accelerator

2

Orig. art. has 5 graphs, 16 photos and 28 references (no Polish, 6 Soviet, 22 other).

ASSOCIATION: Nuclear Research Institute, Warsaw; Warsaw University

SUBMITTED: September 1, 1962

Card 4/4

ACCESSION NR: APL009217

P/0046/63/008/011/0715/0726

AUTHOR: Graffstein, A. (Graffshteyn, Anrdzhey); Wilhelmi, Z. (Vil'gel'mi, Zdzislav)

TITLE: The "Agnieszka" mechanical resonance neutron selector

SOURCE: Nukleonika, v. 8, no. 11, 1963, 715-726

TOPIC TAGS: atomic physics, nuclear physics, neutron, resonance neutron, neutron selector, resonance neutron selector, neutron chopper, fast neutron chopper

ABSTRACT: Article describes some assumptions concerning the design of a neutron selector and gives a resume of the experiments which led to the design of the "Agnieszka" fast neutron chopper. Since the Warsaw laboratories did not have a selector design of their own, the ones developed by the Argonne National, Brookhaven, and Leningrad laboratories were considered. None of these devices were ideally suited for the Polish purposes, and it was decided to develop a Polish selector, based on the Brookhaven design. Some variations of selector design are discussed in detail. The damper problem was solved after some difficulty. The

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ACCESSION NR: AP4009217

selector in final form was put into operation and has been running satisfactorily for six months. This running selector and test findings obtained on this device will be described in a subsequent article. Orig. art. has: 12 figures.

ASSOCIATION: Instytut jadernych badan, Warsaw-Sverk (Institute of nuclear research); Katedra fiziki atomowego jadra Warszawskiego Uniwersiteta (Department of Atomic Physics of Warsaw University)

SUBMITTED: 13Aug63

DATE ACQ: 03Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 002

OTHER: 003

Card 2/2