BIALKIEWICZ, FELIKS

Grochodrzew. Warszawa, Panstwowe Wydawn. Rolnicze i Lesne, 1952. 18 p.
(The common locust)
        DA   Not in DLC

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

BIALKIEWICZ, Z.

POL.

621.315.727 : 621.3.051

2205

Bialkiewicz Z. Power-Factor Improvement as a Means of Increasing the Service Capacity of Electric Transmission Equipment. „Zwiększenie przelotności elektrycznych urządzeń przesyłkowych przez poprawienie współczynnika mocy". Energetyka. No. 2, 1953, pp. 85-93, 1 fig.

The rapid increase in the demand for electrical energy is likely to create difficulties in so far as the parallel expansion of supply systems may fail to keep abreast of the demand. An increase in power supply can, without undue difficulty, be achieved by improving the power-factor. Details are given, based on actual experience, of how to increase the service capacity of electric power transmission systems, without the necessity for stepping up the power generated.

BIALKIEWICZ Z

1939. Testing of correctness of connections of electric power meters. Z. BIALKIEWICZ. *Energetyka*, 8, No. 4, 207-10 (1954) IN POLISH.

This method requires the meter to be connected to a constant voltage source of known symmetry and phase rotation and to a known constant, symmetrical load. By consecutive connection of each phase to potential coils, while current coils are connected without any change in the working circuit, and measuring the revolution speed of the meter, it is possible to obtain data for drawing a vector diagram for the load as shown by the meter. This diagram is then compared with a current and potential diagram for the known load. Differences indicate clearly the type of error in connections.   J. LUKASZEWICZ

BIALKIEWICZ, Z.

National conference on saving electric power, p. 52. (ENERGETYKA, Stalinogrod, Vol. 9, no. 1, Jan./Feb. 1955.)

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

Bialkiewicz, Z

621.314.2.082.1 : 621.3.017

1595.   POWER LOSSES DURING PARALLEL OPERATION
OF SEVERAL IDENTICAL TRANSFORMERS. Z.Bialkiewicz.
Energetyka, Vol. 9, No. 5, 257-81 (1955). In Polish.
Active and reactive power losses in a power transformer
are analysed and formulae given for determination of economic
load limits for a single transformer and for parallel banks of
identical transformers. Considerable errors in determination
of such limits may result from ignoring in a given system kW
losses due to transmission of additional magnetizing currents.
Numerous examples are given.   J.Lukaszewicz

BIALKIEWICZ, Z.

Directions for proper improvement of the coeificient of power. (To be coutd.)

p.148
Vol.9, no.3, May/June 1955
ENERGETYKA
Stalinogrod

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no, 2 Feb. 1956

BIALKIEWICZ, Z.

Directives for a sound improvement in the power coefficient. Pt. 2. p. 196.

ENERGETYKA, Vol. 9, No. 4 July/Aug. 1955

(Ministerstwo Energetyki) Stalinogrod.

SOURCE: EAST EUROPEAN ACCESSIONS LIST Vol. 5, No. 1   Jan. 1956

BIALLIEWIC., Z.

Loss of active power by the parallel operation of several identical transformers. p. 252.

(Minsterstwc Energetyki) Stalinogrod.
Vol. 9, nc. 5, Sept./Oct. 1955
The help of Soviet electric power engineers to the Polish electric power engineers p. 225.

BIALKIEWICZ, Zbigniew, mgr inz.; SKOCZYLAS, Stefania, mgr inz.

Discharge of the battery of star-connected condensers by means of
two V-connected voltage transformers. Energetyka Pol 13 no.11/12
Biuletyn:39-40 N-D '59.   (EEAI 9:7)

1. Zaklad Systemow Energetycznych, Katowice
        (Electric batteries)
        (Condensers (Electricity))

BIALKIEWICZ, Zbigniew, mgr inz.

A conference on the dislocation of batteries of capacitors in electric networks. Biuletyn. Energetyka.Pol 14 no.4:8 Ap '60.   (EEAI 9:10)
(Condensers (Electricity))
(Poland--Electric networks)

BIALKIEWICZ, Zbigniew, mgr inz.

Marking active and reactive power. Biuletyn. Energetyka Pol 14 no.6:
15-16 Je '60.   (EEAI 10:1)
(Electric power)

BIALKIEWICZ, Zbigniew, mgr., inż.

Appearance of upper harmonics in electric networks; notes on eng.
Andrzej Pilatowicz's essay "Harmonic contents in the voltage curve".
Energetyka przem 10 no.1:28-31 '62.

1. Instytut Energetyki, Warszawa Czlonek Komitetu Redakcyjnego
miesiecznika "Energetyka Przemyslowa".

BIALKIEWICZ, Zbigniew, mgr inz.

Third National Conference on power capacitors. Gosp paliw
12 no.4:135-137 Ap'64.

BIALKIEWICZ, Zbigniew, mgr inz.; SCISLOWSKI, Wlodzimierz, prof, dr; BIERNACKI, Tomasz; WAJS, K.

Review of technical publications. Przegl elektrotechn 41 no.2: 73-75 F '65.

BIALKIEWICZ, Z., inz.

Third National Polish Scientific and Technological Conference on
Electric Power Capacitors. Energetyka Pol 18 no. 1: 21-26 Ja '64.

BIALKO, M.

Amplified systems with point-contact transistors. p. 23

LACZNOSC. (Politechnika Gdanska) Poznan, Poland. No. 2, 1959

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

ACCESSION NR: AP4009262   P/0019/63/012/004/0737/0752

AUTHOR: Bialko, M.

TITLE: An instrument for measuring the parameter f_t in high-frequency transistors

SOURCE: Archiwum elektrotechniki, v. 12, no. 4, 1963, 737-752

TOPIC TAGS: transistor, high frequency transistor, solid state circuitry, transistor Q factor, transistor Q factor measurement, transistor parameter, transistor parameter measurement, transistor diffusion capacitance measurement

ABSTRACT: The article describes the operation and construction of a meter for measuring the parameter f_t (Q-factor) of high-frequency transistors. The meter consists of a high-frequency measuring attachment containing the transistor socket; two demodulators for separating a 1-kc modulating frequency; two selective amplifiers of 1-kc mid-frequency; two demodulators used for changing the 1-kc signal into direct voltage; an adder with zero indicator; a power pack for transistor biasing together with potentiometers for fluid set-up of the transistor's

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ACCESSION NR: AP4009262

working point as well as a bias changeover switch (pnp-npn); and amplifier anode voltage feed and adder. The meter can operate at frequencies of 2-170 mc with an error of about 5%. This meter can also be used to determine the parameter f_1 (Q-factor of an ideal transistor), the diffusion capacitance $C_{b'e}$, and the capacitance of the emitter-base junction C_{te}. "Author thanks Mast. of Eng. M. Rasiukiewicz for his very large contribution during the design, operation and scaling of the above-described meter." Orig. art. has: 17 figures and 31 equations.

ASSOCIATION: Katedra Radiotechniki Odbiorczey Politechniki Gdanskiey (Department of Radio Receiver Engineering, Gdansk Polytechnic)

SUBMITTED: 20Apr63   DATE ACQ: 03Feb64   ENCL: 00

SUB CODE: GE, CO   NO REF SOV: 000   OTHER: 005

Card 2/2

L 39654-66   GD

ACC NR: AT6001508   SOURCE CODE: PO/2514/64/000/012/0055/0088

AUTHOR: Bialko, M.

ORG: Danzig Polytechnical Institute (Politechnika Gdanska)

TITLE: Design of broad band transistorized amplifiers with large feedback

SOURCE: Danzig. Politechnika. Zeszyty naukowe, no. 62, Lacznosc, no. 12, 1964, 55-88

TOPIC TAGS: amplifier design, amplifier stage, transistorized amplifier, transistorized circuit, transformer

ABSTRACT: This study investigates amplifiers with large feedback which, from the point of view of voltage, is parallel, which lowers the impedance level at the input and output of the amplifier and in this way diminishes the effect of parasitic capacitances. Since the input and output impedance of an amplifier with large feedback can be on the order of several ohms, series resistances must be connected to the input and output comparable to transformers matching the amplifier to the actual impedances between which it must operate. What is described here is a transformerless system which is justified in the

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case where the desired band width is very large. In the discussion of the transistor properties a simplified system using a substitute transistor with distributed output and input is assumed. Of the methods described for designing absolutely stable broad band, transistorized amplifiers and for verifying their stability, two cases are considered: 1) the case where the cut-off frequency of the return ratio is much smaller than the transistor cut-off frequency; b) the case where the cut-off frequencies are comparable. Orig. art. has 43 figures and 30 formulas.

SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 002

Card 2/2

BIALKO, Michal

Voltage gain of an aperiodic transistor amplifier with common emitter. Lacznosc Gdansk no. 7:71-93 '63.

1. Department of Radio Receiving Engineering, Technical
    University, Gdansk.

L 61892-65

AUTHOR: Bialko, M.

TITLE: Transistorized HF amplifier without inductances

TOPIC TAGS: miniature electronic equipment, transistorized amplifier, synchronous amplifier, amplifier design, transistor operation

ABSTRACT: The paper presents an analysis of a transistorized amplifier in which the transistor operates in the common emitter configuration and the circuit employs capacitance feedback. Such a circuit acts as a tuned amplifier since the capacitance in the feedback loop is transformed (impedance inversion) to the input of the transistor as an inductance resonating with the resultant input capacitance of the transistor. This makes it possible to eliminate the use of inductances in the amplifier design and thus to achieve some degree of minaturization. The parameters of a transistor operating with a capacitive feedback loop are derived and discussed. Expressions for voltage gain of one-stage and multi-stage synchronous amplifiers employing capacitive feedback are derived and a method of their design is given. It is shown that single amplifying stages of such type

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L 61892-65

ACCESSION NR: AP5018388

have voltage gains smaller than the transistor β_0, i.e., the low-frequency current gain coefficient for the common-emitter configuration, and bandwidth greater than f_β. With increasing resonant frequency the gain decreases as in an RC coupled amplifier, and the bandwidth increases. Owing to the limited value of the equivalent Q-factor of a single stage amplifier ($Q < (1/2)\sqrt{\beta_0}$), amplifiers of such type can be mainly used as wideband amplifiers. The amplifier parameters such as resonant frequency, bandwidth, and gain in resonance depend on the parameters of the transistor employed and the external elements such as load resistance and the capacitance in the feedback loop. As an example, the design of a three-stage synchronous amplifier using OC170 drift transistors is given. It is noted that the design of such amplifiers is very simple and their tuning is straightforward. The results obtained are in agreement with the theory. Orig. art. has: 12 figures and 75 formulas.

ASSOCIATION: Katedra Radiotechniki Odbiorczej Politechniki Gdanskiej (Department of Radio Receiver Engineering, Gdansk Polytechnic Institute)

SUBMITTED: 27Jan64   ENCL: 00   SUB CODE: EC

NO REF SOV: 000   OTHER: 001

Card 2/2

BIALKO, Michal

Loop gain shaping of transistor feedback amplifiers. Lacznosc
Gdansk no.10:3-34 '64.

1. Department of Radio Receiving Engineering of the Gdansk
Technical University. Submitted April 6, 1963.

BIALKO, Michal

Designing broad band transistor amplifiers with feedback.
Lacznosc Gdansk no.12:55-88 '64.

1. Department of Radio Receiving Engineering of the Gdansk
Technical University.

LYUDZEYEVSKI, Yezhi [Iudziejewski, Jerzy]; BYALKOVSKI, Yatsek [Bialkovski, Jacek].

Coincidence spectrometer with energy summing for low energy γ-rays.
Nukleonika 8 no.12:843-852 '63

1. Institut iadernykh issledovaniy, Varshava, Sverk.

COUNTRY   : Poland
CATEGORY   :   H-35

ABS. JOUR. : RZKhim., No. 21 1959, No.   77159

AUTHOR   : Bialkowski, E.
INST.   : Not given
TITLE   : Polish Dyes for the Coloring of Undewooled Sheep-
              skins with Preservation of the Wool

ORIG. PUB. : Przeglad Skorzany, 13, No 10, 250-251 (1958)

ABSTRACT   : The brush coloring of undewooled lambskins is
              being replaced by the vat dyeing of the skins with
              preservation of the natural color of the wool.
              In addition to its higher labor requirements and
              the unevenness of the color obtained, brush color-
              ing leads to contamination of the wool, to insuf-
              ficient penetration of the flesh side, and to
              low fastness to light and to water. Anionic and
              special corialian dyes are used in the vat dyeing
              process; these dyes color only the flesh side,

CARD: 1/2

BIALKOWSKI, G.

"Neutrino." p. 323 (Problemy, Vol. 9 no. 5, 1953 Warszawa.)

Vol. 3, no. 6
SO: Monthly List of East European Accession./Library of Congress, June 1954, Uncl.

POLAND/Theoretical Physics - Quantum Mechanics   B-4

Abs Jour : Rof Zhur - Fizika, No 9, 1958, No 19655

Author   : Bielkowski G., Wrzocionko J.
Inst   : Not Given
Title   : Theoretical Problems Connected with the Fundamentals of
           Conservation of Parity

Orig Pub : Postepy fiz., 1957, 8, No 5, 519-548

Abstract : Survey. Bibliography, 16 titles.

Card   : 1/1

7

BIALKOWSKI, G.

15th Conference of Polish Physicists.

p. 83. (KOSMOS. SERIA B: PRZYWODA NIEOZYWIONA.) (Warszawa, Poland) Vol. 4,
no. 1, 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

POLAND/Theoretical Physics - Quantum Theory of Mechanics   B-4

Abs Jour : Ref Zhur - Fizika, No 3, 1959, No 4880

Author   : Bialkowski Grzegarz, Wrzecionko Jerzy
Inst   : —
Title   : Problem of Parity in Modern Physics

Orig Pub : Kosmos (Polska), 1958, B4, No 2, 109-121

Abstract : No abstract

Card   : 1/1

BIALKOWSKI, G.

Strong interaction of K-mesons. p. 225

POSTEPY FIZYKI. (Polskie Towarzystwo Fizyczne) Warszawa, Poland
Vol. 10, no. 2, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2,
Feb. 1960

Uncl.

BIALKOWSKI, GRZEGORZ

K^+-nucleon scattering in the Tamm-Dancoff approximation. Grzegorz Bialkowski and Andrzej Jurewicz (Univ. Warsaw, Poland). Phys. Rev. 116, 1269-71(1959).— Calcns. of K^+-nucleon scattering phase shifts are reported. A simple model of Yukawa interactions between K mesons and baryons (contg. no derivs.) is adopted. The method used is a 3-dimensional Tamm-Dancoff approxn., but with no simplifications as far as recoil effects are concerned. This method is particularly convenient for K^+-nucleon scattering, since the principle of assocd. production excludes graphs leading to nonrenormalizable effects. The resulting integral equation has been solved for the $T = 1$, $S_{1/2}$, $P_{1/2}$, and $P_{3/2}$ states in the energy region up to 1.26 b.e.v. The coupling const. is the only parameter to be detd. from exptl. data. This was chosen to fit the exptl. value of the total cross section at about 350 m.e.v. It turned out that the best agreement with expt. was obtained with $(G^2 + G^2)/4\pi = 12.5$. This value is much greater than the corresponding one adopted in previous papers.   P. M. B.

1-IJP(c)

BIALKOWSKI, GRZEGORZ

19   4
IJP(c)

Nonadiabatic treatment of the scattering of K^+ mesons by nucleons. Grzegorz Bialkowski and Andrzej Jurewicz (Univ. Warsaw). Nuclear Phys. 17, 359-76(1960).—By assuming pseudoscalar Yukawa coupling between K mesons and baryons, the K^+ nucleon phase shifts were calcd. by using the 3-dimensional Tamm-Dancoff approxn. Calcns. were made for the $S_{1/2}$, $P_{1/2}$, and $P_{3/2}$ waves in the $T = 1$ and $T = 0$ states. The corresponding phase shifts and the total cross sections for K^+ on p and K^+ on n, elastic and charge-exchange scattering were presented.
Norman E. Pickering

BIALKOWSKI, G

D

P/047/60/011/002/002/003
B021/B064

AUTHORS: Białkowski,Grzegorz and Jurewicz Andrzej

TITLE: Classification Schemes for Elementary Particles /q

PERIODICAL: Postępy Fizyki, 1960, Vol. 11, No. 2, pp. 191-205

TEXT: As may be seen from the preface, the authors restrict themselves
to listing some essential models of classification, special mention being
made of the model by W. Królikowski. The scheme of d'Espagnat-Prentki was
previously discussed in the periodical "Postępy Fizyki". The authors
classified certain elementary particles (Table 1). The model developed by
Salam-Polkinghorne is a modification of that of Gell-Mann and Pais; it
contains the well-known relation between charge, isospin, and the number
of baryons. Table 2 classifies the pions and K-mesons. The classification
of various hyperons and nucleons may be seen from Table 3. Tiomno's
classification of baryons is given in Table 4, and a classification of
mesons is contained in Table 5. Finally, also the scheme of Pais is
mentioned; whose great merits in the classification of elementary

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Classification Schemes for Elementary   P/047/60/011/002/002/003
Particles   B021/B064

particles are stressed. There are 5 tables and 9 references: 1 British,
6 US, and 2 Italian.

ASSOCIATION: Instytut Fizyki Teoretycznej Uniwersytetu Warszawskiego,
              Warszawa (Institute of Theoretical Physics of Warsaw
              University, Warsaw)

Card 2/2

BIALKCWSKI, Grzegorz

Dispersion relations. Postepy fizyki 12 no.6: 629-670 '61.

1. Instytut Fizyki Teoretycznej UW. Warszawa.

22136

S/056/61/040/003/015/031
B102/B205

24.6900 $(1138, 1191, 1559)$

AUTHORS: Solov'yev, L. D., Bialkowski, G., Jurewicz, A.

TITLE: Equations for the photoproduction of pions on nucleons
              accounting for pion-pion interaction

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40,
              no. 3, 1961, 839-847

TEXT: Equations for the partial pion photoproduction amplitudes at small
energies have been derived on the strength of the Mandelstam representa-
tion in Cini-Fubini approximation and with regard to nucleon recoil and
pion-pion interaction. The pion-pion interaction is introduced into the
equations by pion-pion photoproduction amplitudes formulated in an
earlier paper (Solov'yev, ZhETF, 40, 597, 1961). Pion-pion interaction
makes a contribution only to isotope-scalar photoproduction amplitudes.
As a consequence, pion-pion resonance in states with J=I=1 (if these
exist at all) yields a contribution only to those amplitudes to which no
contribution is made by pion-nucleon resonance. The amplitude of photo-
production on pions depends on the high-energy singularities. In the

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S/056/61/040/005/016/031
B102/B205

Equations for the photoproduction...

expression for the former there appears a parameter that depends on the amplitudes of the processes $\gamma\pi \to N\bar{N}$ and $\pi\pi \to N\bar{N}$ in the region considered. This makes it possible to write formally a system of equations relating the amplitudes of the processes $\gamma N \to \pi N$ and $\gamma\pi \to N\bar{N}$ to the πN and $\pi\pi$ amplitudes. This system contains no new parameters. For the time being it is, however, not possible to take high-energy contributions into consideration, and data on the processes $\gamma\pi \to N\bar{N}$ and $\pi\pi \to N\bar{N}$ must be taken from experiments. Thus, equations are considered here only for the amplitudes of the process $\gamma N \to \pi N$, into which the experimentally deter-mined parameter of the process $\gamma\pi \to \pi\pi$ enters. The formulation of these equations requires a discussion of the extensive kinematics and the unitarity condition for the processes $\gamma N \to \pi N$ and $\gamma\pi \to N\bar{N}$, which is pre-sented in the second part of the present paper. The kinematics of the former has been investigated repeatedly, and that of the latter is treated by a method of Jacob and Wick (Ann.Phys.,7,404,1959). In the second part, the spectral representation according to Mandelstam for the invariant amplitudes of photoproduction is written first.

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Equations for the photoproduction...

$$H_l^{(\alpha)}(s, \bar{s}, t) = \left(B_l^{(\alpha)} - \frac{2eg\delta_{l1}}{t - \mu^2}\right)\left(\frac{1}{s - m^2} \pm \frac{1}{\bar{s} - m^2}\right) + \tag{32}$$

$$+ \frac{1}{\pi^2}\int\limits_{(m+\mu)^2}^{\infty} dx \int\limits_{4\mu^2}^{\infty} dy \left(\frac{1}{x - s} \pm \frac{1}{x - \bar{s}}\right)\frac{h_{l1}^{(\alpha)}(x, y)}{y - t} + \frac{1}{\pi^2}\iint\limits_{(m+\mu)^2} dx\, dy\, \frac{h_{l2}^{(\alpha)}(x, y)}{(x - s)(y - \bar{s})}\,.$$

$$h_{l2}^{(\alpha)}(x, y) = \pm h_{l2}^{(\alpha)}(y, x). \tag{33}$$

$$B_1^{(\alpha)} = 0, \quad B_2^{(\alpha)} = B_3^{(\alpha)} = \frac{g}{2}\begin{cases} \mu_p' - \mu_n, & \alpha = 1 \\ \mu_p' + \mu_n, & \alpha = 2 \\ \mu_p' - \mu_n, & \alpha = 3 \end{cases} \tag{34}.$$

$$B_4^{(\alpha)} = -\frac{1}{4}eg - mB_2^{(\alpha)}$$

This representation is supposed to be valid without any subtraction.
Confining themselves to the low-energy range, neglecting the amplitudes
F, H, etc., and making use of the Cini-Fubini approximation, the authors
obtained this representation in the following way:

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Equations for the photoproduction...

$$H_i^{(\alpha)}(s,\bar{s},t) = \text{Born term} + \frac{1}{\pi}\int_{(m+\mu)^2}^{\infty} dx \left(\frac{1}{x-s} \pm \frac{1}{x-\bar{s}}\right) a_i^{(\alpha)}(x,t) + \delta_{\alpha2}\frac{1\pm1}{2\pi}\int_{4\mu^2}^{\infty}\frac{b_i(x)dx}{x-t}$$

(35), where $a_i^{(\alpha)} = \text{Im } H_i^{(\alpha)}$ for $\gamma N \to \pi N$ and $\delta_{\alpha2} b_i = \text{Im } H_i^{(\alpha)}$ for $\gamma\pi \to N\bar{N}$. $a_i^{(\alpha)}(s,t)$ corresponds only to a pion-nucleon intermediate state in the unitarity condition. The singularity with respect to t begins at $16\mu^2$ and can be expanded in a Taylor series. When neglecting the phases D, F, etc. of pion-nucleon scattering, this expansion reads $a_i^{(\alpha)}(s,t) = a_{i0}^{(\alpha)}(s) + (t-t_0)a_{i1}^{(\alpha)}(s)$. In order that $a_i^{(\alpha)}(s,t)$ contains no unobserved angles, t_0 is replaced by the threshold: $t_0 = \mu^2 - 2\mu k_{thresh}$, $k_{thresh} = \mu(2m+\mu)/2(m+\mu)$. Substituting (35) in

$$M_{l\pm} = C\int_{-1}^{1} dx \frac{1}{2} A_{l\pm}\left[\frac{q(W-m)}{2}\frac{(1-x^2)P'_l(x)}{l(l+1)}H_1 + \right.$$

$$\left. + \left\{\frac{W+m}{2W}(W+E_2+qx)\left[P_l(x) - \frac{q(W-m)P_{l\pm1}(x)}{(E_2+m)(W+m)}\right] + q\frac{(1-x^2)P'_l(x)}{l(l+1)}\right\}H_2 + \right.$$

(17)

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Equations for the photoproduction...

$$+ \left\{ \frac{W+m}{2W} (\omega - qx) \left[P_l(x) - \frac{q(W-m)P_{l\pm1}(x)}{(E_2+m)(W+m)} \right] - q \frac{(1-x^2)P_l'(x)}{l(l+1)} \right\} H_3 +$$

$$+ 2 \left\{ P_l(x) + \frac{qP_{l\pm1}(x)}{E_2+m} \right\} H_4 \Bigg], \qquad (17)$$

$$E_{l\pm} = C \int_{-1}^{1} dx \frac{1}{2} B_{l\pm} \left[\frac{q(1-x^2)}{2} \left\{ \frac{q(W+m)}{E_2+m} D_{l\pm} P_{l\pm1}'(x) - \right. \right.$$

$$- (W-m) A_{l\pm} P_l'(x) \Big\} H_1 + \left\{ \frac{W+m}{2W} (W+E_2+qx) \left[P_l(x) - \right. \right.$$

$$- \frac{q(W-m)P_{l\pm1}(x)}{(E_2+m)(W+m)} \right] - q(1-x^2) \left[A_{l\pm} P_l'(x) + D_{l\pm} \frac{qP_{l\pm1}'(x)}{E_2+m} \right] \right\} H_2 +$$

$$+ \left\{ \frac{W+m}{2W} (\omega - qx) \left[P_l(x) - \frac{q(W-m)P_{l\pm1}(x)}{(E_2+m)(W+m)} \right] + \right.$$

$$+ q(1-x^2) \left[A_{l\pm} P_l'(x) + D_{l\pm} \frac{qP_{l\pm1}'(x)}{E_2+m} \right] \right\} H_3 + 2 \left\{ P_l(x) + \frac{qP_{l\pm1}(x)}{E_2+m} \right\} H_4 \Bigg].$$

где

$$A_{l\pm} = \begin{cases} (l+1)^{-1} \\ -l^{-1} \end{cases}, \qquad B_{l\pm} = \begin{cases} (l+1)^{-1} \\ l^{-1} \end{cases}, \qquad D_{l\pm} = \begin{cases} (l+2)^{-1} \\ (1-l)^{-1} \end{cases}.$$

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Equations for the photoproduction...

one obtains the integral equations for photoproduction. Whereas the last integral for the isotope-vectorial amplitudes vanishes only in (35), the reaction $\gamma\pi \to N\bar{N}$ makes a contribution to the isotope-scalar amplitudes. Neglecting the non-resonant πN phases from (35), one obtains

$$H_I^{(2)}(s,\bar{s},t) = \left(B_I^{(2)} - \frac{2eg\delta_{I1}}{t-\mu^2}\right)\left(\frac{1}{s-m^2} \pm \frac{1}{s-m^2}\right) + \frac{1}{\pi}\int_{4\mu^2}^{\infty} \frac{b_I(t')\,dt'}{t'-t}, \quad (44)$$

for the isotope-scalar photoproduction amplitudes; the b_i are given by

$$b_1(t) = \frac{mq_1}{16\pi E\rho^2}\,[T_+^{(-)1} - \frac{m}{\sqrt{2}E}\,T_-^{(-)1}]f_1^*,$$

$$b_2(t) = \frac{mq_1}{10\pi\rho^2}\left[-\frac{m}{E}\,T_+^{(-)1} + \frac{1}{\sqrt{2}}\,T_-^{(-)1}\right]f_1^*, \qquad (39).$$

$$b_3(t) = 0, \quad b_4(t) = -(mq_1/16\pi E)\,T_+^{(-)1}f_1^*.$$

There are 1 figure and 15 references: 6 Soviet-bloc and 9 non-Soviet-bloc. The three references to English language publications read as follows: J. L. Uretsky et al. Phys.Rev.Lett.1,12,1958; S. Mandelstam, Phys.Rev.112, 1344,1958; W. R. Frazer, J. R. Fulco Phys.Rev. 117,1603,1609, 1960.

Card 6/7

22136
S/056/61/040/003/016/031
Equations for the photoproduction...   B102/B205

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint
Institute of Nuclear Research); Institute of Theoretical
Physics of Warsaw University, Poland, G. Bialkowski and
A. Jurewicz

SUBMITTED: September 6, 1960

Card 7/7

BIALKOWSKI, G.; JUREWICZ, A.

A set of integral equations for the photoproduction of pions on nucleons amplitudes. I. Bul Ac Pol mat 10 no.1:49-55 '62.

1. Institute of Theoretical Physics, University, Warsaw. Presented by L.Infeld.

S/058/62/000/012/008/048
A160/A101

AUTHORS: Bialkowski, G., Jurewicz, A.

TITLE: A system of integral equations for the amplitudes of photoproduction
                of pions on nucleons. II

PERIODICAL: Referativnyy zhurnal, Fizika, no. 12, 1962, 52, abstract 12A448
                ("Bull. Acad. Polon. sci. Sér. sci. math. astron. et phys.", no. 3,
                1962, v. 10, 165 - 169, English; summary in Russian)

TEXT: Starting from the dispersion relations for energy at a fixed angle
for symmetrically-rendered amplitudes of photoproduction of pions on nucleons,
obtained in the previous article (ref. 12A447), a system of integral equations
was derived for lower partial amplitudes of this process. The contribution of
the left-hand section is disregarded.

                                                    V. Pavlov

[Abstracter's note: Complete translation]

Card 1/1

BIALKOWSKI, Grzegorz

Poland

no title given

Scholarship Holder of the International
Atomic Energy Agency Working at CERN
/Commission Europeanne pour la
Recherch Nucleare   _7

Crakow, Postepy Fizyki, Vol XIII, No 6,
1962, pp 677-680.

"Dear Editor".

AUTHOR: · Białkowski, Grzegorz

TITLE: π - π interactions

PERIODICAL: Postępy fizyki,'v. 13, no. 2, 1962, 117 - 136

TEXT: This is a review paper covering works (nearly all Western) published during 1955-1961. The subject matter is arranged as follows: 1) Phenomenological evidence for the existence of strong π - π interactions; 2) dispersion theory of π - π scattering; 3) the effect of the π - π interaction on scattering processes and the electromagnetic form-factor of nucleons; 4) effect of the π - π interaction on the production of an additional pion in pion-nucleon collisions and measurement of the effective pion-pion scattering cross-section; 5) interactions in multi-pion states. There are 3 figures, and 49 references.

ASSOCIATION: Instytut fizyki teoretycznej, Uniwersytet Warszawski
             (Institute of Theoretical Physics, Warsaw University)

Card 1/1

BIALKOWSKI, Grzegorz

Letter to the editor. Postepy fizyki 13 no.6:680 '62.

BIALKOWSKI, G.

Warsaw, Bulletin de l'Academie Polonaise des Sciences, Serie des Sciences Mathematiques, Astronomiques et Physiques, Vol X, No 3, 1962.

1. "A Problem in the Theory of Models," A. Grzegorczyk, of the Institute of Mathematics, Polish Academy of Sciences (Instytut Matematyczny, PAN); English article, pp. 121-126.

2. "Note on a Theorem of Sanders," P.L. Butler, of the University of Birmingham, England; English article, pp. 127-130.

3. "On a Certain General Boundary Value Problem of Elliptic System of Linear Differential Equations of the Second Order," B. Zawya, of the Department of Mathematical Analysis of the University of Warsaw (Katedra Analizy Matematycznej, Uniwersytet Warszawski); English article, pp. 131-138.

4. "Integral Properties of the Logistic Potential and its Applications," Z. Szmydt, of the Institute of Mathematics, Cracow Branch, Polish Academy of Sciences (Instytut Matematyczny, Oddział Krakow, PAN); French article, pp. 139-148.

5. "Transformation of Parabolic Equations with Certain Applications to Markov Processes," I. Sokolowski; Russian article, English summary, pp. 149-152.

6. "A Note on Modular Spaces, III," A. Alexiewicz and M. Orlicz, of the Institute of Mathematics, University, Poznan (Uniwersytet, Poznan); English article, pp. 153-157.

7. "Gravitational Instability of a Self-Gravitating Gaseous Cylinder in the Presence of a Magnetic Field Parallel to the Axis of the Cylinder," J.S. Radochowski and M. Mickiewicz, Poznan); English article.

Astronomical Observations, Warsaw University (Observatorium Astronomiczne, Uniwersytet Warszawski) and the Institute of Astronomy, Polish Academy of Sciences (Zakład Astronomii, PAN); English article, pp. 159-164.

8. "A Set of Integral Equations for the Processing of Fine Observations on Sunken Amplitudes, II," R. Juszkiewicz, of the Institute of Theoretical...

- 1/2 -

- 2/2 -

Warsaw, Bulletin de l'Academie Polonaise des Sciences, Serie des Sciences Mathematiques, Astronomiques et Physiques, Vol. X, No 3, 1962.

9. "On the General Integral Representation of Perturbation Expansion of Scattering Amplitude and Its Relation to Nambu-Symanzik Representation," Y. Iagolnitzer, of the Institute of Theoretical Physics, Wroclaw University (Instytut Fizyki Teoretycznej, Uniwersytet Wroclawski), English Article, pp. 171-176.

10. "Influence of the Activation Temperature on Spectral Distribution of Photosensitivity of the CdS Polycrystalline Layers," W. Czaikowski and A. Czapnik, of the Photoluminescence Laboratory, Polish Academy of Sciences (Pracownia Fotoluminescencji, Polish Academy Fizyki, PAN) and the Industrial Institute of Electronics, Forum (Przemyslowy Instytut Elektroniki), English article, pp. 177-183.

University (Instytut Fizyki Teoretycznej, Warszawski); English Article, pp. 165-169.

BIALKOWSKI, G.; JUREWICZ, A.

A set of integral equations for the photoproduction of pions
on nucleon amplitudes. II. Bul Ac Pol mat 10 no.3:165-169 '62.

1. Institute of Theoretical Physics, University, Warsaw. Presented
by L.Infeld.

BIALKO...SKI, J.

More rights for the directors of geologic establishments.

P. 474 (Przeglad Geologiczn..., Vol. 4, no. 10, Oct. 1956, Warszawa, Poland)

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

BIALKOWSKI, M.

For clearer and more readable print in technical magazines. p. 256. (PRZEGLAD
TECHNICZNY, Vol. 75, No. 7, July 1954, Warszawa, Poland)

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

AUTHOR: Ludziejewski, J. (Lyudzeyevski, Yezhi); Bialkowski, J. (Byalkovski, Yatsek)

TITLE: Scintillation spectrometer for soft gamma radiation, using the coincidence and summation methods

TOPIC TAGS: scintillation spectrometer, soft gamma radiation measurement, coincidence spectrometer, summation spectrometer, energy summing, linear summator

ABSTRACT: The principle and the design of a spectrometer for soft gamma radiation is described. The apparatus contains a saturable amplifier and a fast-coincidence circuit. The signals must be amplified, since only a portion of the electrons appears on the collector of a photo-electric multiplier, due to the relatively long emission time, 0.28 microseconds for NaI(Tl) during a coincidence of shorter duration. The advantage of the system is that the length of the signal wavefront is stabilized and thus the resolution time of the coincidence circuit is independent of the energy level of incident gamma rays. Another feature of this system is summing circuit which counts, by way of generating pulses, only those particles which strike both crystals of the photomultiplier simultaneously. The spectrum

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ACCESSION NR: AP4016299

thus obtained does not include the COMPTON effect and consists of pure phot-peaks..
The entire system is shown and explained with the aid of a block diagram (fig. 1
of Enclosure 01). The fast-coincidence component operates in conjunction with a
limiter and a feedback-stabilized amplifier-limiter, a cathode follower and a
phase inverter. Through a discriminator and another cathode follower, the signal
is transmitted to the slow-coincidence circuit. The linear amplitude summing
circuit is designed with a difference amplifier, feedback-stabilized and with
common plate loading. It is necessary to delay the pulses from the single-channel
analyzer of amplitude up to 25 volts in order to avoid certain difficulties in the
formation of "resolving" signals due to the superposition of these pulses on those
from the fast-coincidence circuit. They are then properly amplified and trans-
mitted to the filter circuit. The efficiency and resolving time of the fast-
coincidence circuit are 100% and 24 sec. for gamma energy of about 50 KaV. In
order to maintain the apparatus in operating condition for many hours, the
stability of the photo-electric multiplier must remain constant; this requires
water cooling, since change in temperature influences its amplification factor

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ACCESSION NR: AP4016299

most and considering that the photo-electric multiplier is the most sensitive
component of the entire system.
"The authors wish to thank Mr. A. JASIN'SKI for his attentiveness and interest
and Mr. P. LUSZCZYN'SKI for his assistance in setting up the apparatus."
Orig. art. contains 9 diagrams.

ASSOCIATION: Institut yaderny*kh issledovaniy, Warsaw-Swierk(Institute of
Nuclear Research)

SUBMITTED: 15Jul63   DATE ACQ: 19Feb64   ENCL: 03

SUB CODE: GE, NS, SD   NO REF SOV: 003   OTHER: 008

Card3/$ 3

BIALKOWSKI, Karol, mgr inz.

The Central Technical Organization in Bialystok Voivodeship.
Przegl techn 85 no.20:4 17 My '64.

1. Przewodniczacy Wojewodzkiego Komitetu Porozumiewawczego
Naczelnej Organizacji Technicznej, Bialystok.

BIALKOWSKI, Stefan

New transportation installations for blending storage
yards of the Lenin Steel Work; Dumping conveyer loading
bridge. Problemy proj hut maszyn 10 no.10:306-309
O '62.

1. Biprostal, Krakow.

BIALKOWSKI, Stefan

New transportation installations of the blending stockyard of
the Lenin Metallurgical Works; the 1960 VTA reloading bridge.
Problemy proj hut maszyn 10 no.9:267-272 S '62.

1. Biprostal, Krakow.

BIBLoBLocKI, 10.

POL.

✓ Groundwood manufacture from poplar. Boleslaw Bialo-blocki and Jan Borniński. *Przegląd Papier.* 10, 198-73 (1954).—Large-scale exptl. trials showed that a satisfactory groundwood pulp can be produced from sound, knot-free poplar by maintaining the temp. in the grinder trough below 50°, pulp consistency below 2%, the pressure of wood on the stone about 1 kg./sq. cm., and using a fine-grain (A000) stone. Substitution of 10% poplar groundwood for an equal amt. of spruce groundwood in a 60%-40% sulfite-groundwood furnish gave a writing paper of good quality. T. R. Zegree

Effect of moisture content in wood on the quality of groundwood. Bolesław Białobłocki. *Przegląd Papierniczy* 11, 100–8(1958).—Grinding expts. were made with logs having moisture contents in the range of 18–53%. Groundwood of good quality, suitable for making newsprint on high-speed machines, should be produced from logs having at least 30%, and preferably over 40% moisture. Such pulp is easy to drain, has a high proportion of long fibers, and its fraction of fines contains an appreciable amt. of mucilaginous substances which improve strength properties of the wet paper web.   T. R. Zegres

BIALOBLOCKI, B.

POLAND / Chemical Technology, Chemical Products and   H
Their Application, Part 4. - Cellulose and
Its Derivatives, Paper.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 63055.

Author : Boleslaw Bialoblocki, Jan Borninski.
Inst   : Not given.
Title   : Experiments of Preparing Chemical Wood Pulp
for Newsprint.

Orig Pub: Przegl. papiern., 1957, 13, No 12, 376 - 378.

Abstract: Wood parboiling was carried out in the solu-
tion of Na_2SO_3 and $NaHCO_3$ in the proportion
of 4 to 1. The pressure of 550 mm of merc-
ury column was used in the 1st stage of im-
pregnation. The solution was introduced under
the pressure of 11 atm and at 70° in the 2nd
stage, the pulp was parboiled 4 hours at 135°,
after which it was washed twice with water.

Card 1/2

BIALOBLOCKI, Boleslaw, mgr.inz.

Paperboard for the production of statistical cards of the Hellerith type. Przegl papier 18 no.3:83-84 Mr '62.

1. Instytut Celulozowo-Papierniczy, Lodz.

BIALOBLOCKI, Kornel, inz. (Poznan); ZYWICKA, Teresa, mgr. (Warszawa)

Thirty-second International Poznan Fair. Przegl budowl i
bud mieszk 35 no.10:527-534 O'63.

BIALOBOK, S.

Journal of the Science of
Food and Agriculture
April 1954
Agriculture and Horticulture

(2)

Influence of growth-substances on rooting of soft-wood cuttings
of trees and shrubs. S. Bialobok and L. Jankiewicz (Rocrn. nauk
Roln., 1953 66, A, No. 3, 117—136). Rooting trials with a no. of
plant species, using indolyl-acetic and -butyric acids, naphthylacetic
acid, and 2 : 4-D are recorded. Soft-wood cuttings showing
70—100% rooting without treatment did not respond to the action
of growth-substances. Application of growth-substances in powder
form or in relatively conc. solution was preferable to that in dil.
solution. Conc. aq. 2 : 4-D (50—100 mg./ml.) produced no rooting
response and often damaged the cuttings.   A. G. POLLARD.

4172   634.942

* **Dendrology.** (Collective work edited by S. Bialobok and Z. Hellwig).
„Drzewoznawstwo". (Praca zbiorowa pod red. S. Bialoboka i Z. Hell-
wiga). Warszawa, 1955, PWRiL, 16°, 797 pp. 390 figs.
    Morphological descriptions of trees and shrubs, their use and culti-
vation (roses for green areas; arrangement of trees and shrubs according
to their biological and ecological requirements; trees and shrubs for par-
ticular kinds of green areas; arrangement of trees and shrubs according
to plastic properties; reproduction of trees and shrubs; planting and
cultivation; diseases and pests).

BIALOBOK, S.

>Hungary changes her landscape. p. 21.

>EKOLGIA POLSKA. SERIA B. (Polska Akademia Nauk. Komitet
>Ekologiczny) Warszawa. Vol. 1, no. 1/2, 1955.

POLAND

SOURCE: East European Accessions List LC Vol. 5, no. 7, August 1956.

POLAND / Forestry. Forest Crops.   K-3

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24904.

Author   : Bialobok, Stefan.
Inst   : Not given.
Title   : Problems and Methods of Experimental Work With
           Poplars in the Institute of Dendrology and Pomol-
           ogy in Kornik.

Orig Pub: Arboretum korn., 1956 (1957), 2, 145-174.

Abstract: The subjects of observations and tendencies of
          poplar hybridization are pointed out; basic tasks
          of the work on systematization of the poplar (par-
          ticularly the local species), investigations of
          genetic character, etc., are described.

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                                40

BIALOBOK, S.

Selected problems of the genetics of trees. p. 133.

KOSMOS, SERIA A: BIOLOGIA (Polskie Towarzstwo Przrodnikow im. Kopernika) Warszawa.,
Vol. 8, no. 2, 1959.

Poland

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

Uncl.

BIALOBOK, Stefan, professor

Kornik Arboretum. The History and Work of the Department of Dendrology and Pomology at Kornik. Review Pol Academy 6 no.3:57-59 Jl-S '61.

1. Director of the Department of Dendrology and Pomology, Kornik k/Poznania.
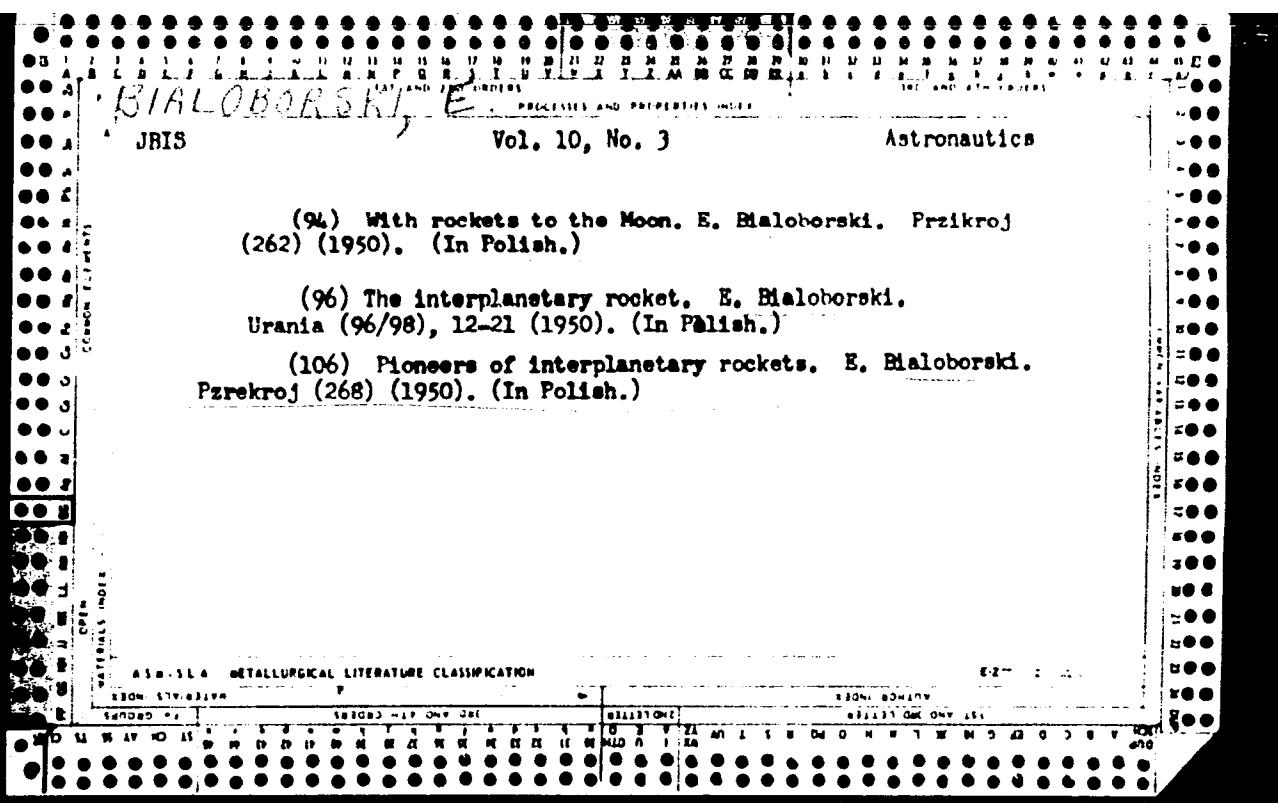
BIALOBOK, Stefan (Kornik)

Achievements of the Kornik Arboretum and the Research Institute on Dendrology of the Polish Academy of Sciences. Wszechswiat no.9:217-222 S '62.

BIALOBOK, Stefan

    International Congress for World Consultation on Forest Genetics
and Tree Improvement. Kosmos biol 13 no.5:558-560 '64.

BIALOBOK, Stefan

Clarence Emmeren Kobuski, American botanist of Polish descent; 1900-
1963. Widdom botan 8 no.3/4:193-194 '64.

BIALOBORSKI, E.

JBIS   Vol. 10, No. 3   Astronautics

(94) With rockets to the Moon. E. Bialoborski. Przikroj
(262) (1950). (In Polish.)

(96) The interplanetary rocket. E. Bialoborski.
Urania (96/98), 12-21 (1950). (In Palish.)

(106) Pioneers of interplanetary rockets. E. Bialoborski.
Pzrekroj (268) (1950). (In Polish.)

BIALOBORSKI, E.

"Interplanetary Inquiry of Skrzydlata Polska," 2. P. 504. (SKRZYDLATA POLSKA, Vol. 10, No. 32, Aug. 1954, Warszawa, Poland)

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

BIALOBORSKI, E.

D. Jarzabek's Loty kosmiczne (Cosmic Flights); a book review. p. 15. (SKRZYDLATA POLSKA, Warszawa, Vol. 11, No. 6, Feb. 1955)

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

BIALOBRZESKA, A.   H-27

POLAND/Chemical Technology, Chemical Products and Their
      Application, Part 3. - Fermentation Industry.

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34138.

Author : U. Wojcicka, H. Duszyk, A. Białobrzeska.
Inst   : Not given.
Title : Study of Determination Methods of Little Methyl Alcohol
         Amounts and Exposure of Its Contents in Raw Materials,
         Half-Products (Alcohols, Fruit Liqueurs) and Vodkas.

Orig Pub: Przem. spozywczy, 1957, 11, No 8, 361.

Abstract: A more precise method of methanol determination in
         raw materials, half-products and finished products
         of the alcohol industry is recommended in the case,
         if the methanol content converted into water-free
         ethanol was in the range from 0.03 to 2% by volume.
         5 ml of each solution to be analysed and of each typical

Card   : 1/3

20

POLAND/Chemical Technology, Chemical Products and Their   H-27
          Application, Part 3. - Fermentation Industry.

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34138.

          and typical solutions are compared. The methanol
          content in analyzed samples of Polish vodkas was not
          more than 0.25% by volume.

Card   : 3/3

                              2/

BIALOBRZESKI, CZESLAW

Termodynamika. (Wyd. 1.) Warszawa, Panstwowe Wydawn.
Naukowe, 1955. 238 p. (Thermodyamices. 1st ed. diagrs.,
index, tables)

SCIENCE

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 2
Feb. 1956

BIALOBRZE'KI, R.

Remarks on the analysis of prime costs in local construction. p. 31.

BUDOW'ICTW' WIEJSKIE. (Ministerstwo Roinictwa i Ministerstwo Panstwowych Gospodarstw Roinych) Warszawa. Poland. Vol. 11, no. 3, Mar. 1959

Monthly List of East European Accessions ('EA') LC Vol. 8, no. 8, August 1959

Uncl.

BIALOBRZESKI, T.

"Investigating the Relationship of Stresses in the General Work of a Bridge Beam Prestressed by Means of Cable." p. 34 (Inzyniera I Budownictwo, Vol. 11, No. 2, Feb. 1954, Warszawa)

SO: Monthly List of East European Accessions, Vol. 3, No. 6, Library of Congress, June, 1954, Uncl.

BIALOBRZESKI, T.

Testing the strength of a prestressed concrete beam for a road
bridge with a span of 10 m. Biuletyn. p. 1. (Instytut Techniki
Budowlanej) Wzrszawa Vol. 11, no. 2, Feb. 1956
DROGOWNICTWO

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

BIALOSRZESKI, T.

BIALOSRZESKI, T.   Remarks on the progress of Czechoslovak road and bridge building.
p. 208.   Vol. 11, no. 9, Sept. 1956.   DROGOWNICTWO.   Warszawa, Poland.

SOURCE: East European Accessions List (EEAL), Vol. 6, no. 4--April 1957

BIALOSKORSKI, T.

We have fulfilled our yearly supply plan ahead of schedule. p. 4
ROLNIK SPOLDZIELCA, Vol. 9, No. 1, Jan. 1956, Poland

SO: East European Accessions List, Library of Congress, Vol. 5, No. 10,
October 1956.

BIALOBRZESKI, Tadeusz, dr inz.; CZUDEK, Henryk, dr inz.

Use of high-strengrh steels in steel bridge construction.
Inz i bud 21 no.10:347-350 0 '64.

BIALOBZHESKIY, A. V.

1342. Variation in the Fatigue Limits of Aluminum Alloys Under the Influence of Anodic Oxidation. Ob izmenenii predelov ustalosti aliuminievykh splavov pod vliianiem anodnogo oksidirovaniia. (Russian.) A. V. Slezskii, A. V. Bialobzheskii, Z. T. Zaritsenko, and B. V. Serdyuk. Metallovedenie i Obrabotka Metallov, 1956, no. 4, Apr. 1956, p. 14-20.

Chromic-acid anodizing increases endurance and strength limits. Investigation on the effect of sulfuric acid anodizing on fatigue limits, and effect of oxide coating thickness and polishing. Tables, graphs, micrographs, diagrams. 16 ref.

REZNIKOV, L.

"Snow and ice." G.V. Bialobzheskii. Reviewed by L. Reznikov. Fiz. v
shkole 13 no.4:86-87 Jl-Ag '53.
                                                              (MLRA 6:6)
                                    (Frost)   (Bialobzheskii, G.V.)

BRODOWICZ, Kazimierz (Warszawa); BIALOKOZ, Jerzy (Oxford)

Free convection heat transfer from a vertical plate to
Freon 12 near the critical state. Archiw bud masz 10
no. 4: 389-303   '63.

KRZYSZKOWSKA, Anna; BIALOKOZ, Michal; CYGANCZUK, Janusz; DUWINSKA-SLIWINSKA,
    Bozena; FIRKO-STEPNIEWSKA, Otylia; GURTAT, Bronislaw; KANDZIORA,
    Stanislaw; KUBIT, Stanislaw; MOKRZYCKI, Mikolaj; POLKOSZEK, Mie-
    czyslaw; ROMANOWSKA, Izabella; WASOWSKA, Janina; WESTRYCH, Feliks;
    WISNIEWSKI, Henryk.

Tuberculin reaction in recruits. Gruzlica 32 no.2:131-139   F'64

1. Z Zakladu Epidemiologii Instytutu Gruzlicy; Kierownik: doc.
dr. med. O.Buraczewski.

*

MICHAL, Eugeniusz; BLAZEK, Jozef

Department of Medicine of the Jagiellonian University during the period of 1918-1939. Pol. tyg. lek. 19 no.8:311-315 17 F '64.

BIALONCZYK, M., Romanski, J.

Corrosive properties of a low-copper manganese brass of the MM47 type. Pt. 1. p. 15.
(PRACE. Vol. 6, no. 4, 1956 (published 1957), Warszawa, Poland)

SO: Monthly list of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
UNCL.

BIAŁOSTOCKA, E. M., BIAŁOSTOCKI, E. M.

"Chrońmy oczy dziecka" (Let's protect the eyes of the child), by E. M.
Białostocka, E. M. Białostocki. Reported in New Books (Nowe Ksiazki), No. 15,
August 1, 1955

L 08248-67   EWP(j)   WW/JW/WE/RM

ACC NR: AT6033380   SOURCE CODE: PO/2521/66/000/028/0089/0098

AUTHOR: Bialostocki, Slawomir (Gdansk); Zielinski, Andrzej (Gdansk)

ORG: none

TITLE: Adiabatic temperature and composition of combustion products for several ordinary fuels with air preheated to higher temperatures

SOURCE: Polska Akademia Nauk. Instytut Maszyn Przeplywowych. Prace, no. 28, 1966, 89-98

TOPIC TAGS: combustion, combustion product, combustion temperature, hydrocarbon, fuel, adiabatic temperature

ABSTRACT: Adiabatic temperature and equilibrium composition of combustion products are given in this paper for selected fuels in reaction with air preheated to 1000C. The calculation, in which full account is taken of dissociation, was made according to Huff method [V. N. Huff, S. Gordon, V. E. Morrell, NACA Report 1037] for the stoichiometric ratio of fuel and air, and for one atm pressure. Results are quoted for several pure hydrocarbon compounds and several ordinary fuel mixtures taken into consideration in the selection of fuel for high-temperature

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L 08248-67

ACC NR: AT6033380

combustion experiments. For a commercial mixture: butane—72%, propane—24%, ethane—4%; results are given for air temperature varying from 18 to 1200C. Orig. art. has: 14 formulas, 8 figures and 2 tables. [Authors' abstract]

SUB CODE: 20, 21/ SUBM DATE: 00Jan65/ SOV REF: 001/ OTH REF: 006/

Card 2/2

BIALOUS, J.

"Flax and Hemp, Precious Raw Materials for the Textile Industry." p. 16
(Plon, Vol. 5, No. 2 Feb. 1954, Warszawa)

SO: Monthly List of Russian Accessions / Library of Congress,   June   1954, Uncl.

BIALOUS, Zbigniew, mgr inz.

New calculation scheme of squirrel-cage induction motors with digital computers. Inst elektrotech prace 10 no.31:13-23 '62.

1. Zaklad Maszyn Elektrycznych, Instytut Elektrotechniki, Warszawa.

BIALCUSO.., J.

BIALUSO.., J. Lniarstwo. 2. wyd. popr. i rozsz. .arszawa, Panstwowe ydawn. Rolnicz i Lesne, 1954. 308 p. (Flax industry. 2d rev. and enl. ed.)

DA   Not in DLC

AGRICULTURE
Poland

So: ast uropean Accession, Vol. 6, No. 5, ay 1957

OLSZEWSKI,Z.; BIALOUSZ,S.; RUSIECKA,D.; SIKORSKA, K.; SKLODOWSKI,P.

Peat soils of the Czarny Dunajec River region. Rocz nauk roln rosl 89 no.1:1-46 '64

1. Department of Soil Science, Technical University, Warsaw.