

HUNGARY

DUCHON, Jenó, Dr, MIRISZLAI, Erno, Dr; Medical University of Pecs, Ear-Nose-Throat Clinic (Pecsi Orvostudományi Egyetem, Ful-Orr-Gegeklínika).

"Syndroms Imitating Peritonsillar Abscesses."

Budapest, Orvosi Hetilap, Vol 104, No 27, 7 July 1963, pages 1279-1281.

Abstract: [Authors' Hungarian summary] The authors describe a case of strongly vascularized glomus tumor which presented the picture of a peritonsillar abscess. In this connection, the differential diagnosis of disorders which might imitate peritonsillar abscesses is discussed. Through their own experience, the authors recommend the histological examination of a biopsy sample for the diagnosis of all syndroms which might be mistaken for this disease. Extensive hemorrhage can be prevented. The diagnosis of atypically located peritonsillar abscesses is also facilitated by this method. 1 Hungarian, 16 Western references.





Duchon, J.

CZECHOSLOVAKIA/Pharmacology and Toxicology - Agents Affecting Blood V  
Coagulation.

Abs Jour : Ref Zhur - Biol., No2, 1959, 9241

Author : Duchon, J., Kasper, J.

Inst : -

Title : Experience in the Treatment of Coronary Sclerosis with  
Heparin

Orig Pub : Lekar. obzor, 1958, 7, No 2, 112-115

Abstract : No abstract.

Card 1/1

- 15 -

*Duchon, J.*

RICHTER, A.F.; DUCHON, Jiri

Effect of Chloroethanol (ethylenechlorhydrine) on proteins. Cas. lek. cesk. 97 no.6-7:229-232 14 Feb 58.

1. II Ustav pro lekarskou chemii KU, prednosta prof. A. F. Richter.  
(ALCOHOL, ETHYL, related cpds  
2-chloroethanol, eff. on proteins (Cs))  
(PROTEINS, metab.  
eff. of 2-chloroethanol (Cs))

DUCHON, J.; CEJKOVA, B.; RICHTER, A.F.

Effect of chloroethanol on some amino acids and peptides. Acta univ.  
carol. [med.] Suppl. 14:257-263 '61.

1. II. ustav pro lekarsku chemii fakulty vseobecneho lekarstvi  
University Karlovy v Praze, prednosta prof. dr. J. Sula.  
(AMINO ACIDS chem) (PEPTIDES chem)  
(ALCOHOL ETHYL rel cpds)

RICHTER, A.F.; CEJKOVA, B.; DUCHON J.

Effect of trichloroethanol on amino acids and proteins. Acta univ. carol. [med.] Suppl. 14:265-270 '61.

1. II. ustav pro lekarskou chemii fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. J. Sula.

(ALCOHOL ETHYL rel cpds) (AMINO ACIDS chem)

(PROTEINS chem)

DUCHON, J.; GREGORA, Vl.; PECHAN, Zd.

On melanins and melanogenesis. Acta univ. carol. [med.] Suppl. 14:  
279-289 '61.

1. II. ustavu pro lekarskou chemii fakulty vseobecneho lekarstvi  
University Karlovy v Praze, prednosta prof. dr. J. Sula Onkologicky  
ustav v Brne, biochemicke oddeleni vedouci dr. Zb. Brada.  
(MELANIN chem) (MELANOMA chem)



DUCHON, J.

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: Internal Department, Okres Institute of Public Health  
(Interne oddeleni Okresni ustav narodneho zdravia)

Source: Bratislava, Lekarsky Obzor, Vol X, No. 9, 1961, pp 613-630  
Bratislava-okolie (-suburbs)

Data: "Twenty Years of Antibiotic Therapy"

- ✓ DUCHON, J.; MD, Head (prednosta) of above Department
- ✓ KRCNEROVA, H.

RICHTER, A. F.; DOCHON, Jiri; S technickou asistenci M. Dobiasove

On the esterification of amino acids with chloroethanol. Cas.lsk.  
cesk 100 no.14:425-428 7 Ap '61.

1. II. ustav pro lekarskou chemii KU, prednosta prof. dr. A. F.  
Richter, doktor lekarskych ved.

(ALCOHOL ETHYL rel opds) (AMINO ACIDS chem)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420012-6

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411420012-6"

DUCHON, K.

Economical collection of straw following harvesting by combine. p. 277.  
(Mechanisace Zemedelstvi, Vol. 7, no.12, June 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Incl.

DUCHON, M.

Electric heavy-current equipment of film studios. p. 19

CZECHOSLOVAK HEAVY INDUSTRY. (Ceskoslovenska obchodni komora) Prague,  
Czechoslovakia. No. 6, 1959

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





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DUCHOWSKA, Helena; CIOLECKA-TOMASZEWSKA, Krystyna

Tuberculosis of the sternum and of lungs in a 12-year-old girl with rheumatoid arthritis. *Pediat. Pol.* 40 no.3:295-299 Mr '65.

1. Z Oddziału Dziecięcego Instytutu Reumatologicznego w Warszawie (Kierownik prof. dr. E. Wilkoszewski) i z Kliniki Terapii Chorób Dzieci Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. H. Zapasnik-Kobierska).

BOREJKO, Maria; DUCHOWSKA, Helena

4 cases of peripheral dysostosis occurring in 1 family. Reumatologia (Warsz) 3 no.1:69-74 '65.

1. Z Zakładu Radiologii Instytutu Reumatologicznego w Warszawie (Kierownik: doc. dr. med. J. Zabokrzycki) i z Kliniki Pediatrycznej; Studium Doskonalenia Lekarzy i Oddziału Dziecięcego Instytutu Reumatologicznego w Warszawie (Kierownik: prof. dr. med.) E. Wilkoszewski).

BUCIC, M.

Present achievements and future tasks in the fulfillment of the forestry section of our economic plan for the period 1957-1961; 3d Congress of Forestry and Wood Industry Engineers and Technicians of Yugoslavia. p. 1.

MARGENTI SUDAR. (Društvo šumarskih inženjera i tehničara Bosne i Hercegovine) Sarajevo, Yugoslavia. Vol. 12, no. 1/3, Jan./Mar. 1958.

Monthly list of East European Accessions (EEAI) LC, Vol. 2, no. 8, Aug. 1959.

Encl.

DUCIC, Vojislav, ing., strucni saradnik

Chemical determination of the content of calcium silicate and aluminates  
in clinker cements. Saop Inst isp mat Srb 9 no.15:20-24 JI '61.

DUICIC, Vojislav, ins., saradnik (Bulevar Vojvode Misica 43, Beograd);  
KRASTAVCEVIC, Momcilo, ins., asistent

Direct determination of magnesium content in limestone.  
Tehnika Jug 17 no.6:Suppl.: Hemindustrija 16 no.6:1157-1158  
Je '62.

1. Institut za ispitivanje materijala NR Srbije, Beograd  
(for Ducic). 2. Tehnoloski fakultet Univerziteta u Beogradu  
(for Krastavcevic).

MAKSIMOVIC, Ljubomir, inz., visi strucni saradnik; RATKOVIC, Nada, inz., strucni saradnik; DUGIC, Vojislav, inz., strucni saradnik

Potential reactivity of the aggregate from Gaocici with cement alkalies.  
Saop Inst isp mat Srb 10 no.16:34-39 Mr '62

~~DUGIC, Kotalav, ins.,~~ strucni saradnik; KRSTAVCEVIC, Momcilo, ins.,  
- asistent

Complexometric determination of aluminum in cements. Saop Inst  
isp mat Srb 10 no.18:13-16 S'62.

DUCIC, Vojislav, inz., visji strucni saradnik ; KRSTAVCEVIC, Momcilo, inz.,  
asistent

Content of pussolana and fly ashes in cements. Saop Inst isp mat Srb  
11 no.19:68-72 My '63.

1. Institut za ispitivanje materijala NR Srbije.



DUCIC, Vojislav, inz., visi strucni saradnik; KRSTAVCEVIC, Momcilo, inz, asistent;  
KOLARIK, Jene, inz., asistent

Determination of carbon dioxide in cement. Saop Inst isp  
mat Srb II no.20:66-70 Ag '63.

1. Institut za ispitivanje materijala SR Srbije.

STANKOVIC, Ivan; ĐOČIĆ-PETROVIĆ, Melanija

Role of serum electrophoresis in the diagnosis of uveitis.  
Srpski arh. celok. lek. 90 no.3:237-244 Mr '62.

1. Klinika za bolesti očiju Medicinskog fakulteta Univerziteta  
u Beogradu V. d. upravnika: prof. dr Ivan Stankovic.  
(ELECTROPHORESIS) (BLOOD PROTEINS chem)  
(UVEITIS blood)

S

YUGOSLAVIA

Milenija DUCIC-PETROVIC, Eye Clinic, Medical Faculty, University (Klinika za očne bolesti, Medicinski fakultet Univerziteta); Head (Upravnik)  
Prof Dr Ivan STANKOVIC, Belgrade.

"Trauma in the Course of Terrier's Disease."

Belgrade, Srpski Arhiv za Celokupno Lekarstvo, Vol 90, No 9, Sept 1962;  
pp 867-870.

Abstract [English summary modified]: Detailed description of case. In the presence of this rare ocular syndrome, blunt trauma caused large corneal lesion. Photograph, 7 Western, 2 Yugoslav references.

1/1

STANKOVIC, Miodrag; DUCIC-PETROVIC, Milenija

Clinical aspects of congenital glaucoma. Srpski arh. celok.  
lek. 91 no.7:669-674 J1-Ag'63

1. Klinika za bolesti ociju Medicinskog fakulteta Univerziteta  
u Beogradu. Upravnik: prof.dr. Ivan Stankovic.

\*

DUCINSKAS, Alfredas, agr.; LURIE, U., red.; BANCEVICIUS, P., tekhn.  
red.

[Production and use of corn ensilage; carrying out the resolutions of the January Plenum of the Central Committee of the CPSU] Kukuruzinio siloso gamyba ir panaudojimas; igyvendinant TSKP CK sausio plenumo nutarimus. Vilnius, Valstybine politines ir mokslines literaturos leidykla, 1961. 40 p.  
(Lithuania--Ensilage) (Corn (Maize)) (MIRA 15:3)

"APPROVED FOR RELEASE: 08/25/2000

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CIA-RDP86-00513R000411420012-6"

COUNTRY : HUNGARY  
CATEGORY : Soil Science. Tillage. Improvement. Erosion. J  
ABS. JOUR. : RZhBiol., No. 3 1959, No. 10737  
AUTHOR : Duck, T.  
INST. : -  
TITLE : Control of Soil Erosion.  
ORIG. PUB. : Agrártudomány, 1957, 9, No. 5, 11-16  
ABSTRACT : No abstract.

CARD: 1/1

STEFANOVITS, P.; ~~DUCK, T.~~

Mapping of soil erosion in Hungary. Agrochem talajtan 13 Suppl.:  
175-182 My '64.

1. Research Institute of Soil Science and Agricultural Chemistry  
of the Hungarian Academy of Sciences, Budapest.



16.6500

3702A  
S/035/62/000/005/098/098  
A055/A101AUTHOR: Düick, Werner

TITLE: Estimate of the propagation of the data-inaccuracy in the solution of linear systems of equations and of matrix equations

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 5, 1962, 42, abstract 5G236 ("Magyar tud. akad. Mat. kutató int.közl.", 1961, 6, no. 1-2, 43-60, German; Russian summary)

TEXT: For the error  $\delta x$  of the solution  $x$  of the linear algebraic equation system:

$$x = Ax + a \quad (1)$$

the following estimate is obtained:

$$\|\delta x\| = \max_i |\delta x_i| \leq \frac{\|x\| \|\delta A\| + \|\delta a\|}{1 - \|A\| - \|\delta A\|}$$

where  $\delta A$  is the error of matrix  $A$ , and  $\delta a$  is the error of vector  $a$ ,

$$A = \max_i \sum_{k=1}^n |a_{ik}| < 1, \|A\| + \|\delta A\| < 1.$$

Card 1/2

Estimate of the propagation ...

S/035/62/000/005/098/098  
A055/A101

For the quantity  $\|x\|$ , the following estimates are deduced:

$$\|x\| \leq \frac{\|a\|}{1 - \|A\|}, \quad \|x\| < \|\bar{x}\| + \frac{\|r\|}{1 - \|A\|},$$

where  $r = A\bar{x} + a - \bar{x}$ ;  $\bar{x}$  is the approximate solution of the system (1). The inequalities of the following form are also examined:

$$\|\tilde{x} - \bar{x}\| \leq \|C^{-1}\| \frac{\|\delta C\| \|\bar{x}\| + \|\delta c\| + \|r\|}{1 - \|C^{-1}\| \|\delta C\|},$$

u

where  $\|C^{-1}\| \|\delta C\| < 1$ ;  $\bar{x}$  is the approximate solution of the equation  $Cx = c$ ,  $r = c - C\bar{x}$ ,  $\tilde{x}$  is the solution of the equation:

$$(C - \delta C) \tilde{x} = (c + \delta c).$$

The author deduces also estimates for the norms of inverse matrices  $\|C^{-1}\|$ .

V. Saul'yev

[Abstractor's note: Complete translation]

Card 2/2

DUCK, W.

Eigenvalue problems in relation to differential equations containing a quadratic member in an eigenvalue parameter. Mat lapok 13 no.1/2:197 '62.

*DUCKA, K.*

EXCERPTA MEDICA Sec.6 Vol.11/2 Intern. Med. Mar 57

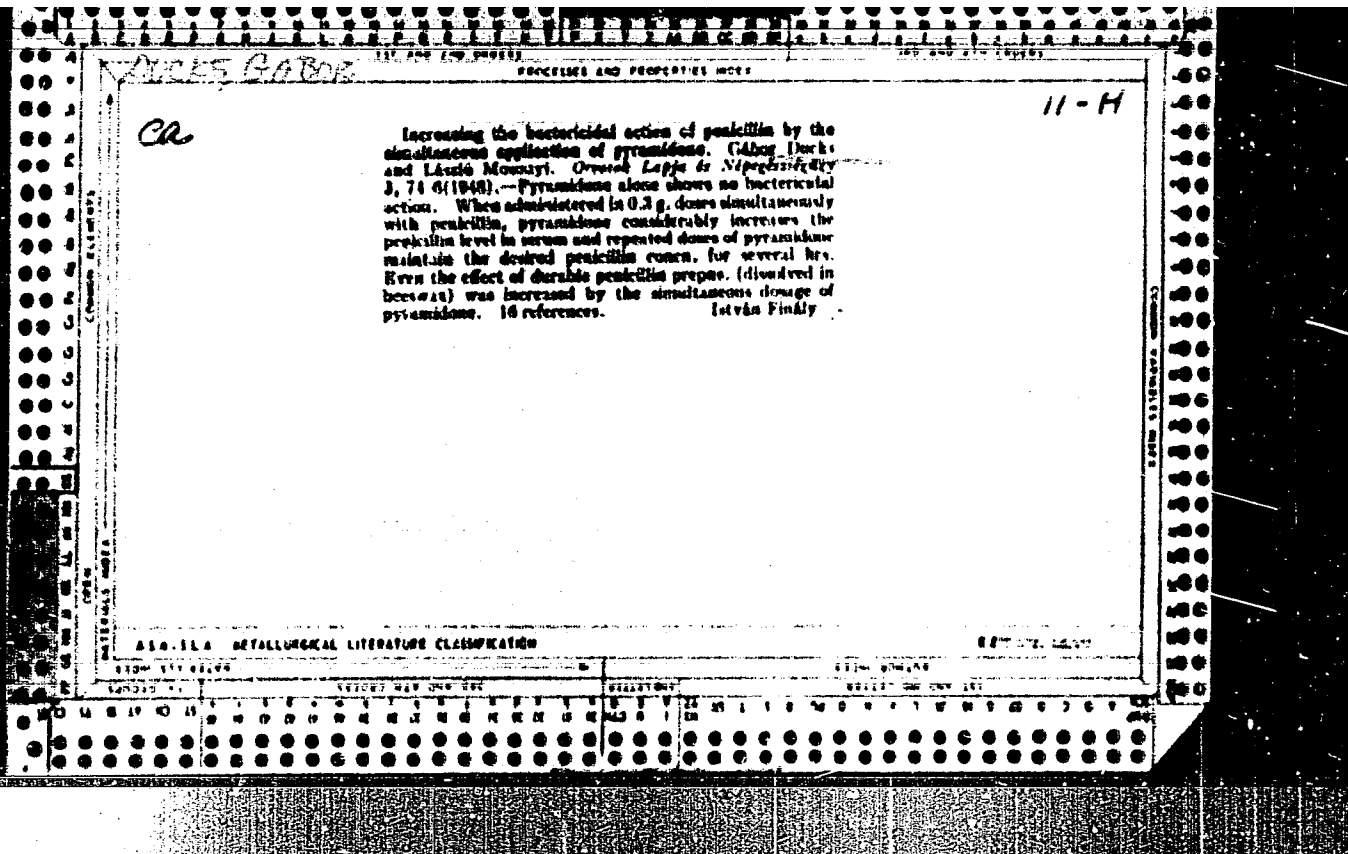
1979. DUCKA K. Zakł. Stomatol. Zachowawczej P.A.M., Szczecin. "Choroby zębów i jamy ustnej w przebiegu cukrzycy. Diseases of teeth and mouth in the course of diabetes POL. ARCH. MED. WEWNĘT. 1956, 26/7 (1153-1157) Tablę 5

The author discusses the results of her studies on the basis of 120 observed diabetic patients in whom the lesions in the oral cavity were found in the form of aggravating caries or paradentosis. The extent of these lesions, their intensity and their character depend on the patient's age, the duration of the disease and the individual traits. In young persons aggravation of the caries process is observed, and in older ones paradentosis, which leads to loss of teeth. In the patients with a tendency to acidosis the most serious lesions were observed in the oral cavity.

**DUCKA-KARSKA, Krystyna**

Some remarks on the article "Our own observations on prosthetics for children and adolescents", by S. Poller-Mlynek, published in "Czasopismo Stomatologiczne", no. 11-12, 1964. Czas. stomat. 18 no.11:1325-1329 N ' 65.

1. Z Kliniki Ortodontji AM w Warszawie (Kierownik: prof. dr. A. Orlik-Grzybowska).



DUCZMAL, Karol

Causes of difficult germination of some seeds in the light of investigations. Postępy nauk roln 8 no.1:59-71 '61.  
(KEAI 10:8)

1. Katedra Fizjologii Roslin Wyższej Szkoły Rolniczej w Szczecinie.  
Kier.: Doc. dr. Jerzy Dąochowski.  
(Seed)

DUCZMAL, M.; UCHMAST, J.

A standing dynamometer. Biuletyn. p. 21.

PRZEGLAD GORNICZY. (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Gornictwa) Katowice, Poland, Vol. 15, no. 9, Sept. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.



DUCZMAL, M.

Example set by the Soviet Union. Wiadom gorn 11 no. 7/8:  
226-229 J1-Ag '60.

DUCZMAL, Marian

Mining machinery and devices at the 30th Jubilee International  
Poznan Fair. Wiadom gorn 12 no.7/8:231-237 JI-Ag '61.

DUCZMAL, Marian, mgr ins.; UCHMAST, Jerzy, mgr ins.

Multipiston radial pumps. Przegł gorn 18 no.12:Suppl: Biul  
Główn inst gorn 13 no.3:24-28 '62.

DUCZMAL, Marian, mgr iss.

Polish and foreign-made mining machinery and equipment at the  
32d International Poznan Fair. Wiadom gorn 14 no. 7/8:205-210  
J1-Ag '63.

DUCZMAI, M., mgr inw.

Exhibition of technological progress in the Ostreva-Karvin  
Basin. Wiadom gorn 14 no.11:350-353 N°63.

DUCZMAL, Marian, mgr ins.

The Adimak STH.3K small shaft installation. Wiadom gorn 15  
no.1:2-30 Ja '64.

DUCZMAL, Marian, mgr ins.; LEDMOCH, Zygmunt, mgr ins.

The FDP multiwedgehead loading device. Wiadom gorn 15  
no. 6:200-204 Je '64.

DUCZMAL, Marian, mgr ins.

The coal industry on the 20th anniversary of the Polish People's  
Republic. Prsegl gorn 20 no.9:399-410 9 '64.



DUCZMAL-PACOWSKA, Halina

Anniversaries of deceased amateurs and experts of Polish geological sciences falling in the year 1962. Przegł geol 10 no.11:626-628 N '62.

1. Muzeum Ziemi, Warszawa.

**BIELANSKI, Adam; DUCZYMIŃSKA, Eliza**

Scorption of water vapor by dehydration products of  $\text{CoSO}_4 \cdot 6\text{H}_2\text{O}$ .  
Ceramika no.3:103-110 '99. (KRAI 9:9)

1. Katedra Chemii Nieorganicznej AGH  
(Water) (Bieberite)

KUNZ, Karol, mgr; DUCZYMIŃSKA, Eliza, mgr

Determination of cobalt in copper ores and concentrates. Rudy  
i metale 8 no.8:302-306 Ag '63.

KUNZ, Karol, mgr; DUCZYMINSKA, Eliza, mgr; OSTACHOWSKA, Janina, mgr

Determination of nickel in copper ores and concentrates.  
Rudy i metale 9 no. 1: 35-39 Ja '64.

DUCZYMINSKA, Eliza, mgr.; KUNZ, Karol, mgr.; OSTACHOWSKA, Janina, mg.

Determination of molybdenum in copper ores and concentrates.  
Rudy i metale 10 no.1:28-30 Ja '65.

POPIELARSKA, Aniela; SUFPCZYNSKA-KOTOWSKA, Maria; CABALSKA, Barbara;  
DUCZYNSKA, Nina

The ataxia-telangiectasia syndrome in children. *Pediat. Pol.*  
40 no.3:267-272 Mr '65

1. Z II Kliniki Pediatricznej Akademii Medycznej w Warszawie  
(Kierownik: prof. dr. med. T. Lewenfisz-Wojnarowska) i z  
Kliniki Chorob Metabolicznych Instytutu Matki i Dziecka w  
Warszawie (Kierownik: doc. dr. med. K. Bozkowa; Dyrektor: prof. dr.  
med. B. Gornicki).

1/8 (172)1

01/088/3096

1/2 A.

theory of shallow asymmetric cross-section shells made from materials

Universitat. Vestnik. Seriya I. Matematika. 1964. no. 1,

Consider a shallow sandwich shell of asymmetric cross-section with a constant radius of curvature  $k_1$  ( $1 = 1/k_1$ ). The middle surface of the shell consists of three layers of different materials. The thicknesses of the supporting layers,  $h_1$  and  $h_2$  (see the enclosure);  $a$  - the broken line curve,  $\psi_1$  - the angle between the line normal with angle  $\alpha_1$ . From the geometry of these sections the expressions are derived for the mean surface deflection

$$w_{11}^{1/2} = w_{11}^0 \pm \frac{1+1}{2} w_{11}^0 + \frac{1}{2} w_{11}^0$$

$$w_{11}^0 = \frac{1}{2} (w_{11}^0 + w_{11}^0) + \dots$$

APSC 7231

... according to Hooke's Law

$$\sigma_x = E \epsilon_x + \nu \sigma_y \quad (\sigma_y = 0)$$

$$\sigma_y = \nu \sigma_x \quad (\sigma_x = 0)$$

$$\epsilon_x = \frac{\sigma_x}{E} - \nu \frac{\sigma_y}{E}$$

... results, the following matrix represents the stress-strain relationship for the stress and the moments in the layer:

$$N^x = B^x \epsilon^x, \quad M^x = I_x \kappa^x + m^x$$

$$m^x = D^x \epsilon^x, \quad \kappa^x = \theta^x + \theta^y$$

... the moments acting on the new coordinate system by

$$M^x = \frac{1}{2} (M^x + N^x) - \frac{1}{2} (M^y - N^y) \quad N^x = \nu \sigma_x$$

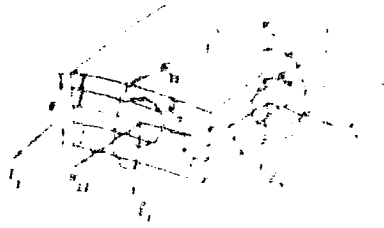
$$M^y = D^y \epsilon^y + D^y \theta^y - D^x \epsilon^x + D^x \theta^x$$





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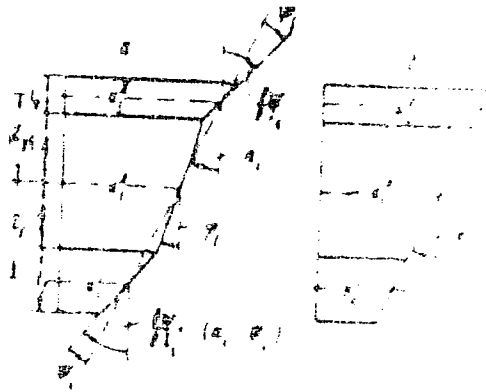


FIG. 2

BALIA, A.; DUDA, N.

Our experience with conservative therapy of luxatio coxae cong.  
Acta chir. orthop. traum. sech. 27 no.1:57-60 F '60  
(HIP fract & disloc.)

KINDERMAY, S.; LANIKOVA, V.; DUDA, E.

Experiences with the surgical treatment of habitual dislocation of the shoulder joint. Acta chir. orthop traum. Cech. 32 no.1: 20-23 F'65.

1. Ortopedická klinika Lekárske fakulty University Komenského v Bratislave (prednosta: akademik Slovenskej akadémie vied J. Cervenansky) a Chirurgické oddelenie Vojenskej nemocnice v Bratislave (veduci: MUDr. Z. Rozhold).

DUDA, Eugeniusz

Scientific cooperation of Poland in Vietnam; construction of the water power plant in Cha-Pa. Nauka polska 10 no.4:183-184 '62.

1. Komisja Międzynarodowego Roku Geofizycznego, Polska Akademia Nauk, Warszawa.

81383

Z/038/60/000/03/06/007

21.5300

AUTHORS: Malý, Břetislav and Duda, František

TITLE: A 160-Channel Time Analyzer 19

PERIODICAL: Jaderná energie, 1960, No. 3, pp. 97 - 98

TEXT: The completion of the first Czechoslovak nuclear reactor in Rež has made it possible to conduct experimental research into nuclear physics in the ČSR. The article describes the time-of-flight method and the equipment used in neutron spectrometry (Ref. 1). The ÚJV designed and built a 160-channel time analyzer for measuring the neutron spectrum by the time-of-flight method. The analyzer is shown in Figure 1, and it operates as follows: Impulses, defining the zero time  $t_0$  are derived from a rotating selector. Impulses, coming from the neutron detector at time  $t_n$  are led to the input of the analyzer and directed into the individual channels corresponding to the time intervals  $t_n - t_0$ . The analysis of impulses is based on the principle of delayed coincidences arranged in matrix form. This principle has previously been described in technical literature (Ref. 2). Impulses in the individual channels are registered without reduction by mechanical counters (Ref. 3) whose number corresponds to that of the channels (160). The counters are symmetrically arranged on either side of the control panel of the analyzer. The

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## A 160-Channel Time Analyzer

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counters 1-80 and 81-60 can be zeroed electrically within 4 seconds. Installed on the control panel of the analyzer, shown in Figure 2, are 2 probes with counters, which can be connected in parallel with any one of the channel counters. One probe can be connected by a switch with any one of the channel counters 1-80, the other with any one of the channel counters 81-160. The purpose of the probes is to check the operation of any chosen counter and to automatically stop further counting when the counter has counted the predetermined number of impulses. The background level is measured by 8 separate channels, each fitted with a mechanical counter. The analyzer has an impulse counter which can count all impulses coming to the analyzer input either during the entire time of operation or only during certain periodic intervals. The width of each channel is adjustable to 1, 2 or 5  $\mu$ sec, thus determining the measured time interval of the analyses as 160, 320 and 800  $\mu$ sec respectively. The beginning of the measured interval can be shifted in relation to the zero time by a maximum of 5,900  $\mu$ sec in 100  $\mu$ sec units with an error of  $\pm 0.5 \mu$ sec. Either half of the analyzer (channels 1-80 and channels 81-160) can operate separately, which is of advantage in measurements with and without a sample. The one half which is just not operating can be zeroed even while the other half is in operation. The insertion of the sample into the neutron beam is controlled from the control desk of the analyzer and so is the selector. The electronic part of the analyzer is installed in the central part of the equipment, the power sources are located under the counters.

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A 160-Channel Time Analyzer

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Technical data: Number of channels: 160 (80+80); number of background channels: 8; capacity of each channel: 10,000 impulses; channel width: 1, 2 and 5  $\mu$ sec; width of the background channel: 20, 40 and 100  $\mu$ sec; dead time of counter: 10 milliseconds; zeroing of counters: electrical (always 80 counters at a time); resolving power: twice the width of the channel; shifting of the beginning of the measured interval: from 0 to 5,900  $\mu$ sec, in 100  $\mu$ sec units; shift error (in relation to time  $t_0$ ):  $\pm 0.5 \mu$ sec; number of electron valves per channel: 1.9; power input: 2,5 kw. There are 2 photographs and 3 references, 2 of which are Czech and 1 Soviet.

ASSOCIATION: Ústav jaderného výzkumu ČSAV (Institute of Nuclear Research, ČSAV), Prague

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84381

Z/038/60/000/004/005/005  
A201/A026

21.5200

AUTHOR: Duda, František

TITLE: Count Rate Meters, Ionization Vacuum Gage

PERIODICAL: Jaderná energie, 1960, No. 4, p. 128

TEXT: The ÚJV has built two count rate meters and an ionization vacuum gage for its own use. The count rate meter I (Fig. 1) is linear and its integrating range is adjustable in 5 scale ranges. The value measured can either be read from a dial or be recorded by a Metra 5mA register on a 12 cm wide paper tape. The probable measuring error can be set in 4 values, accordingly changing the time constant of the apparatus within a range of 0.1 to 50 sec. Specifications: maximum sensitivity: 0.3 v; integrating scale ranges:  $10^2$ ;  $10^3$ ;  $10^4$ ;  $10^5$ ;  $10^6$  counts/min; time constant: from 0.1 to 50 sec; linearity:  $\pm 3\%$ ; probable measurement error values: 1; 5; 10; 30%; input power: 90 w; operation from grid: 220 v  $\pm 10\%$ . - The count rate meter II is logarithmic with an integrating range of 10 to  $10^6$  counts/min in one scale range. The value measured can either be read from a dial or be recorded on a paper tape by an attached register. Specifications: maximum sensitivity: 0.3 v; integrating range: from 10 to  $10^6$

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Count Rate Meters, Ionization Vacuum Gage

counts/min; measuring accuracy:  $\pm 10\%$ ; time constant: 32 sec; power input 100 w; operation from grid: 220 v  $\pm 10\%$ . - The ionization vacuum gage, shown in Figure 2, can measure high vacuum within a range of  $10^{-3}$  to  $10^{-8}$  mm Hg in several scale ranges. It has a built-in device for controlling the vacuum pump, thus enabling it to maintain the desired vacuum level in the measured equipment (spectrometer, Van de Graaff accelerator, cascade generator valves, etc). Specifications: vacuum measuring range:  $10^{-3}$  to  $10^{-8}$  mm Hg; regulation range of the emission current in the ionization-gage tube: 5 to 10 mA (manual); stabilization of the emission current:  $\pm 2\%$  (at  $\pm 10\%$  change of the grid voltage); power input: 140 w; operation from grid: 220 v  $\pm 10\%$ ; accuracy:  $\pm 3\%$ . There are 2 photographs.

ASSOCIATION: Ústav jaderného výzkumu (Institute of Nuclear Research), Prague

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...  
...  
...  
...  
... authors' Russian research  
... instrument 2011 was  
... The instrument has  
... controlled by a 10 Mc quartz  
... and provisions for presetting  
... purpose devices such as the pulse  
... generator with variable frequency  
... the pulse counter for presetting  
... The measured values are read  
... are 480 by 120 by 330 mm



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F-1

Abs Jour : Ref Zhur - Biol., No 11, 1958, 47871

Author : Duda, J.

Inst : -

Title : Azotobacter Cultures by the Submersed Method.

Orig Pub : Acta Microbiol Polon, 5, No 1-2, 113-115 (1956) (in Polish with an English summary)

Abstract : In submerged cultures (aeration by stirring) the rate of growth of azotobacter is higher than in standard stationary cultures. In the latter case maximum growth is attained after seven days, compared to three days in the case of submerged cultures.

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SCIENCE

Bratislava, Czechoslovakia

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(VITAMINE B12, metabolism,  
leguminous plants (Pol))

(PLANTS, metabolism,  
leguminous, vitamin B12 (Pol))

DUDA, J.; KASZUBIAK, H.

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(SOIL, microbiology,

microorganism count in relation to soil vitamin B<sub>12</sub> content (Pol))

(VITAMIN B<sub>12</sub>, determination

in soil, relation of content to microorganism count in soil (Pol))

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The effect of the insecticides HCH and chlordan on the soil microflora. p. 237

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Poland/

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



Disinfectants in the agglomeration process  
of suspended solids in water. The  
effect of disinfectants on the rate of  
disinfection. The rate of disinfection  
does not increase the degree of disinfection  
quantity of S in the charge, as long as the  
other constituents also influence the  
disinfection. In the presence of the disinfectant  
disinfection occurs. The optimum  
on the properties of the disinfecting agent  
and disinfectants for each case.

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Use of a moist blast in the V. M. Molotov Ironworks at Trinec, p. 342.  
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Uncl.

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18.3200

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AUTHOR: Duda, Josef, Engineer CZECH/34-60-1-4/23  
TITLE: Contribution to the Manufacture of Steel<sup>IV</sup> for Roller Bearings<sup>VI</sup>

PERIODICAL: Hutnické listy, 1960, Nr 1, pp 20 - 25

ABSTRACT: For manufacturing the rollers and races of roller bearings a steel is used, the chemical composition of which is 0.90-1.10% C, 0.30-0.50% Mn, 0.15-0.35% Si, 1.30-1.65% Cr, max 0.027% P, max 0.030% S, max 0.25% Cu, max 0.30% Ni, max 0.50% Cu+Ni. The main metallurgical problem in manufacturing such steel relates to non-metallic inclusions. In order to determine the effect of certain basic factors on the micro-purity of the steel under production conditions prevailing in Czechoslovakia, a detailed analysis was made of 150 heats of a 12-ton basic electric-arc furnace of the 1957-8 campaign. The metallurgical process of the melts was followed in detail and metallographical analyses were carried out on specimens which were subjected to a practically equal degree of reduction. The results were evaluated by statistical methods and attention was paid

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Contribution to the Manufacture of Steel for Roller Bearings

to the possibility of revealing the influence of some individual manufacturing parameters on the micro-purity of steel. Details are given of the smelting process and of the metallurgical and statistical analyses used. Figure 1 shows a dimensional sketch of the ingot mould for casting ingots of 940 kg. The influence of the burning-off of carbon on the micro-purity of the steel is entered in the graph, Figure 8. The influence of the micro-purity of the steel on the decarburisation speed is graphed in Figure 9. The graph, Figure 10, gives the dependence of the micro-purity of steel on the time of holding the steel in the ladle. The graph, Figure 11, gives the influence of the casting time of the ingot on the micro-purity, whilst the graph, Figure 12, gives the influence of the P and S contents on the micro-purity. In the experiments, the micro-purity was determined on the basis of the Jernkontoret scale. Metallographical analysis has shown that the greatest proportion of admixtures is formed by complex iron-base oxides of globular shape. In addition, all the melts contained silicide and

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complex aluminium-silicon inclusions. Aluminium-silicon inclusions form fine rows and, in some spots, these are of considerable length. However, there are large areas which are completely free of such admixtures. In all the samples investigated slag particles were detected. Sulphur inclusions are rare and are predominantly fine in character. Complex sulphur-based inclusions were also found. In a mathematical-statistical study, the influence of metallurgical factors was investigated from the point of view of micro-purity. It has been proved that the degree of burning-off of carbon and the decarburisation speed have a direct influence on the micro-purity. No influence was detected of the duration of the reduction process or of the time of adding FeCr. Also it could not be confirmed that the Mn:Si ratio had any influence. In investigating the effect of the quantity of Al used for final deoxidation, it was found that smaller quantities of Al yield poorer results than larger quantities of Al. 4

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It was established that 4-5 min is the optimum time for holding the steel in the ladle. In investigating the influence of the casting time it was found that fast casting brings about an appreciable improvement in the micro-purity of the steel. It was possible to prove that the P and S contents have an adverse effect on the micro-purity; an increase of the P+S content by 0.05% brings about, on the average, a deterioration in the micro-purity by 0.46. Any reduction in the quantity or dimensions of the inclusions and any improvement in the uniformity of their distribution has a pronounced effect on the improvement of the quality of the steel. The results can be utilised for improving the quality of roller-bearing steel produced in basic electric-arc furnaces.

There are 12 figures, 1 table and 13 references, of which 8 are Soviet, 1 English, 3 Czech and 1 German. ✓

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CZECH/34-60-1-4/23

Contribution to the Manufacture of Steel for Roller Bearings

ASSOCIATION: Železářny a drátovny Bohumín  
(Iron and Wire Works, Bohumin)

SUBMITTED: June 11, 1959

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