

CADEK, Josef, prof. inz. DrSc.

Fireproof metallic materials in power engineering. Tech praca  
16 no. 9: 648-650 S '64

1. Research Institute of Iron Metallurgy, Prague.

L 34431-66 I/EWP(t)/ETI IJP(c) JD  
ACC NR: AP6026199

SOURCE CODE: CZ/0034/65/000/011/0796/0800

AUTHOR: Freiwillig, Rudolf--Freyvillig, R.; Cadek, Josef--Chadek, I.; Tykal, Kamil 26  
ORG: Research Institute of Ferrous Metallurgy, Prague (Vyzkumny ustav hutnictvi  
zeleza) B

TITLE: Recrystallization of selected grades of Czechoslovak steels. I. Recrystallization diagrams of steels CSN 17021 and CSN 17041

SOURCE: Hutnické listy, no. 11, 1965, 796-800

TOPIC TAGS: metal recrystallization, steel, cold rolling/CSN 17021 steel,  
CSN 17041 steel

ABSTRACT: Recrystallization kinetics was investigated in cold rolled CSN 17021 and CSN 17041 steels on specimens with 5-8% reduction in the 650-750°C temperature range and with 30 sec.-2 hrs. annealing times. The results were plotted on thermokinetic diagrams from which the relations of the main parameters of the process annealing can readily be determined, that is, the relations of the annealing temperature and time and the degree of reduction. Suitable combination of those basic parameters makes possible the optimum technique of heat treatment for the grades considered. Orig. art. has: 6 figures and 2 tables. [Based on authors' Eng. abstract]  
[JPRS: 33,732]

SUB CODE: 11, 13 / SUBM DATE: none / SOV REF: 006 / OTH REF: 005

UDC: 620.192.4: 669.1.017

Card 1/1 JPS

09/16 1747

PONDELIK, Alois; KALOUS, Jan, inz.; CADEK, Karel

Strength tests of fillet welds. Zvaranie 13 no.5/6:157-  
164 My-Je '64.

1. Zavody V.I. Lenina National Enterprise, Plzen.

S/273/63/000/002/002/010  
A052/A126

AUTHORS: Krívan, Zdeněk, Čadek, Otto, Kratochvil, Maximilian, Kliment, Vladimír, Svátek, Jiří, Janutka, Josef, Ostrouchov, Mikuláš

TITLE: Internal combustion engine with supercharged turbocharger

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, 39. Dvigateli vnutrennego sgoraniya, no. 2, 1963, 11 - 12, abstract 2.39.77 P (Czech. pat., cl. 46f, 5/03, 46f, 8/02, no. 98178, January 15, 1961)

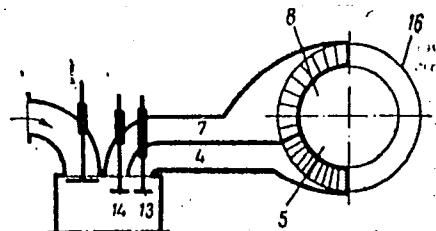
TEXT: To better utilize the energy of exhaust gases it is proposed to supply them in two streams 4 and 7 (see Fig.) to the guiding apparatus of the gas turbine 16, the blades of which have such a form in each of two sections 5 and 8 that the circumferential components of gas velocities are equal.. In a 4-cycle engine 2 exhaust valves 13 and 14 are mounted; the valve 14 opens later than the valve 13. A variant of an engine with an outlet slide valve instead of two valves is described as well as a variant of a 2-cycle engine with two channels connected to the outlet ports. There are 2 figures.

Card 1/2

Internal combustion engine with supercharged ....

S/273/63/000/002/002/010  
A052/A126

Figure



A. Zhukov

[Abstracter's note: Complete translation]

Card 2/2

GAERTNER, Henryk; CAEN, Jacques

Functional relation between erythroplastin (erythrocyte coagulant factor) and plasma factors: proaccelerin (V), proconvertin (VII) and Stuart factor (X). Acta physiol. Pol. 15 no.2:237-243  
Mr-Ap '64.

1. Z Pracowni Hemostatycznej (Kierownik: doc. dr H. Gaertner, III Kliniki Chorob Wewnętrznych Akademii Medycznej w Krakowie (Kierownik: prof. dr J. Aleksandrowicz) i z Pracowni Hemostatycznej Instytutu Hematologicznego Uniwersytetu w Paryżu (Kierownik: prof. dr J. Bernard).

PETRESCU, Al.; ATHANASIU, Pierrette; SURDAN, C.; CAJAL, N.;  
SARATEANU, D.; avec la collaboration de VELCIU, V.  
MARIN, D.; CADERE, N.

Viral etiology of ulcerous disease II. Rev. sci. med. 8  
no. 1/2:75-77 '63.

1. Membre de l'Academie de la Republique Populaire Roumaine  
(for Nicolau).  
(PEPTIC ULCER) (VIRUS DISEASES) (RICKETTSIAL DISEASES)

CADERE, R., conf. ing.; SIMIONESCU, N., ing.

Use of the electromagnetic method for groundwater research.  
Meterologia hidrol gosp 8 no.1:3-6 '63.

NICOLAU, St. S.; SURDAN, C.; SARATEANU, D.; ATHANASIU, Pierrette;  
SORODOC, G.; POPESCU-DANESCU, Georgeta; BABES, V.;  
STEFANESCU, I.; ILIESCU, C.; RADESCU, R.; MALITCHI, E.;  
CADERE, T.; FLORIAN, I.; PARASCHIVESCU, N.; SETLACEK, D.;  
DUMITRESCU, St.; SILVIU DAN, S.

A study concerning the rickettsial or pararickettsial etiology  
of some cardiovascular diseases. Rev. sci. med. 8 no.3/4:  
151-158 '63.

1. Member of the Academy of the R.P.R. (for Nicolau).  
(RICKETTSIAL DISEASES) (ANTIBODIES)  
(CARDIOVASCULAR DISEASES) (ENDOCARDITIS)  
(PERICARDITIS) (HEART BLOCK) (CORONARY DISEASE)  
(THROMBOPHLEBITIS)

CZECHOSLOVAKIA

MASEK, Josef, Graduate Chemist, HAIS, Karel, Dr of Veterinary Medicine, in cooperation with CADERSKA, Libuse and BOCHORAKOVA, Jitka, Biochemical Department (Biochemicke oddeleni) of the Veterinary Medicine Research Institute (Vyzkumny ustav veterinarniho lekarstvi), Brno, Karel HAIS, Dr of Veterinary Medicine, director.

"Negative Effect of Industrial Exhalations on Cattle"

Prague, Veterinarni Medicina, Vol 8, XXXVI), No 5, October 1963, pp 341-348.

Abstract [Authors' English summary, modified]: A report is made on the negative effect of industrial exhalations on the health condition and productivity of cattle in the Ostrava area. An outline is presented of the present and future research on this subject in Czechoslovakia. The purpose is to develop a system of indicators for establishing objective data on the damage and losses caused to livestock (an estimate loss of 160 to 180 million koruny per year), discovering the mechanism of the effect on organisms, and taking appropriate preventive measures. Forty-two references, including 15 Czech and 1 Russian.

CADERSKY, Ivan; NOVAK, Karel

Rapid semimicrodetermination of sulphidic sulphur in nonpolar  
solutions of dilaurylsulphidodipropionate. Chem zvesti 14  
no.10:552-553 O '64.

1. Research Institute of Macromolecular Chemistry, Brno.

CADERSKY, Ivan

Determination of *terc*-butylhydroperoxide in presence of phenolic antioxidants and di-n-alkylsulfides. Chem prum 15 no.4:239-240 Ap '65.

1. Research Institute of Macromolecular Chemistry, Brno.  
Submitted July 15, 1964.

L 47409-66 EWP(j) IJP(c) RM

ACC NR: AP6020306 (A) SOURCE CODE: CZ/0009/66/000/006/0348/0354

AUTHOR: Soucek, Jaroslav; Vasatkova, Jirina; Cadersky, Ivan

ORG: Research Institute for Macromolecular Chemistry, Brno (Vyzkumny ustav  
makromolekularni chemie)

TITLE: Identification and determination of mixtures of phenolic antioxidants and  
UV absorbers in polypropylene, by differential spectrophotometry in ultraviolet

SOURCE: Chemicky prumysl, no. 6, 1966, 348-354 and appropriate inserts  
preceding p. 319

TOPIC TAGS: phenolic antioxidant, polypropylene

ABSTRACT: A procedure is reported for spectrophotometric identification and  
determination of small amounts of phenolic antioxidants and UV-absorbing sub-  
stances in polypropylene. An optimal solvent for extraction has been chosen and  
the precision of the direct photometric determination of the ratios of both compo-  
nents contained in the mixture has been evaluated. A suitable chromatographic

UDC: 679.576.32

679.5.04

Card 1/2

L 47409-66

ACC NR: AP6028306

separation procedure has been elaborated for use in cases where the relative error of direct determination is too high. Orig. art. has: 5 figures and 5 tables.  
[Authors' abstract.] [KS]

SUB CODE: 07/ SUBM DATE: 03Aug65/ ORIG REF: 002/ OTH REF: 005/

Card 2/2 vlr

CAPES. 3.

"Oak cells as variable training," p. 212 (SOKOLOV 1957, Vol. 76, no. 5, Sept. 1957,  
Zagreb, Yugoslavia)

%: Monthly List of East European Accessions, Vol. 2, #3, Library of Congress  
Acquisitions, 1952, pno. 1.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307930011-7

CADEZ, Andrej

Internal friction in metals. Obr mat fiz 11 no.2:73-76 1964.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307930011-7"

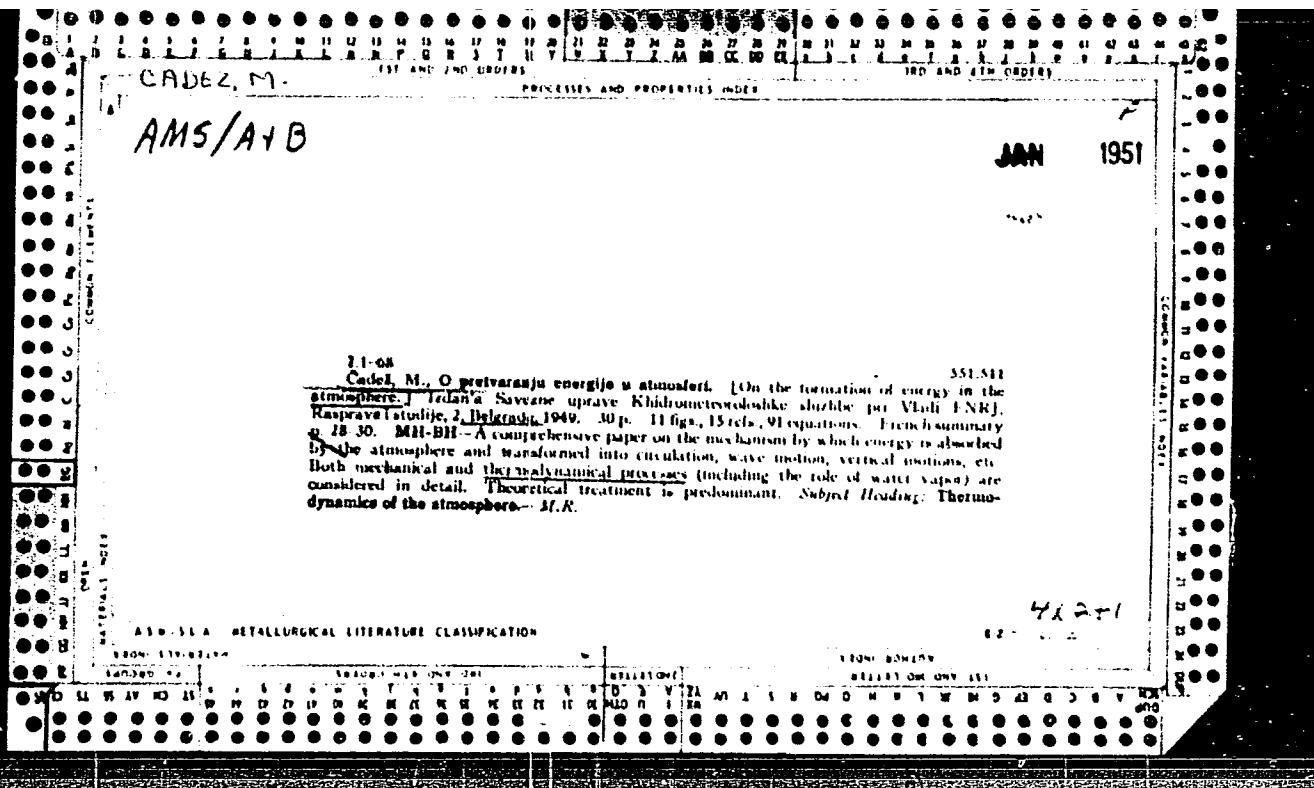
CADEŽ, M.	1ST AND 2ND QUARTER	3RD AND 4TH QUARTER
PROCESSES AND PROPERTIES INDEX		
AMS/AHB		
J		
MAY 1951		
COUPON ELEMENTS	CODED ELEMENTS	
OPEN	CLOSED	
ATTACHMENT INDEX	CLASSIFICATION INDEX	
ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION		
SEARCHED	INDEXED	SERIALIZED
SORTED	FILED	FILED
E-Z FILE INDEX		
TECHNICAL BOUNDARY		
SERIALIZED FILE ONLY LIST		

2.5-108  
551.551.551.524.4  
Cadež, Marjan. Vpliv turbulentce na nastanek in razvoj inverzij na razvoj nizkotopinjakih izoterm. [Induction of turbulence on the origin and development of inversions and the zero isotherm.] *J. Akademije Znanosti in Umjetnosti v Ljubljani, Razprave*, 21(2):481-501, 1942. 3 figs., 29 refs., 19 equations. Italian summary p. 496-500. DWB—The earlier theoretical work of MARILLER, WEISNER, KORNHIMER, LITTAU, FIMBERG, the author and others is reviewed in a systematic manner and applied to the mutual effect of turbulence in lapse rates, cloud formation, surface inversions and finally, the formation of the zero isotherm. The influence of snow falling through turbulent air prevents the formation of a well-defined zero isotherm such as would be found in stable air. Subject Headings: Turbulence, Inversions, Zero isotherm, Change of state.—M.R.

①  
Geophys

Meteorological Abst.  
Vol. 4 No. 7  
July 1953  
Aqueous Vapor and  
Hydrometeors

✓ 4.7-152  
Čadež, M. Oblaci severnog vremena u Ljubljani. [Cloud types during northerly weather at Ljubljana.] Yugoslavia. Hidrometeorolska Študia. Hidrometeoroloski Glasnik, 551.576.1:551.556;551.43(497.1) 1(2):110-116, 1948. 12 figs. In Croatian. DWB—Cloud types usually connected with northerly winds passing over the Alps are described in general terms. They are "Ac op" or "Sc" at altitudes between 3 and 4 km above sea level and "Fst" or "Feu" at 2 to 2.5 km. These latter are transformed into "Cu" and "Cb" during the warm season. Photographic samples of some typical clouds are presented. Subject Headings: 1. Cloud types 2. Wind 3. Orographic Influences 4. Alps 5. Ljubljana, Yugoslavia



*Cadez, M.*

✓ 5.4-62

Cadez, M. O tipovima vremena. [Weather types.] Yugoslavia. Hidrometeorologički Glasnik, 2(1-2) 188-96, 1949. 4 figs., 3 refs. In Croatian; Russian and French summaries, p. 98. DWB—Physical definitions of various weather types are based on the horizontal and vertical movement of air masses. Four main types (cyclonic, advective, anticyclonic and convective) and their combinations are discussed. Symbols used on charts to indicate prevailing weather types are presented and their quantitative application explained. Synoptic aspects of various weather types are described. Subject headings: 1. Weather types. 2. Air mass movements. 3. Yugoslavia.—G.T.

CADEZ M.

American Meteorological  
Society

Fog (Clouds)

551.575.36

3.11-186

Cadez, M., Nekoliko statističkih podataka o ljubljanskij magli i periodu 1943-46. (Statistical data on fog at Ljubljana during 1943-46). Yugoslavia. Hidrometeoroloska Sluzba, Hidrometeoroloski Glasnik, 2(1-2):97-103, 1949. In Croatian. DWB-The well known Ljubljana fog" is called" one of the most characteristic weather phenomena" of the region. Definitions of various types of ground and "above ground" fog are given and data on the frequency of each type presented and commented on. Subject Headings: 1. Fog 2. Fog frequencies 3. Ljubljana, Yugoslavia. G.T.

*American Meteorological  
Society  
CADEC, M.*

*Water report (and papers)*

3.11-172

Cades M., O toploti isparavanja. (On the heat of vaporization.)  
Yugoslav, Jidrometeoroloska Sluzba, Hidrometeoroloski Glasnik, 3:19-25  
1950. 5 refs. e.s. I Croatian, French summary p. 25. DWB-The heat  
of vaporization of water is determined from theoretical approach.  
Equations accounting for internal and external heat (the former equivalent  
to the power of cohesion of water molecules, the latter required to create  
an expansion of water under external pressure) necessary to effect evapora-  
tion under a given pressure and temperature are developed and commented on.  
Subject Headings: 1. Evaporation theory 2. Heat of vaporization. U.T.

551.573

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307930011-7

Materials [redacted] Argentines 411-6 ✓

May 27, 1960

Argentine Foreign Minister  
Buenos Aires, Argentina

Argentine Foreign Minister  
Buenos Aires, Argentina

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307930011-7"

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"APPROVED FOR RELEASE: 06/09/2000

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*CODEX MORGAN*

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APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307930011-7"

*10.4-172*

*Cadej, Marjan (Belgrade, Yugoslavia), Transport der inneren und kinetischen Energie  
in der Atmosphäre. [Transport of internal and kinetic energy in the atmosphere.] Germany,  
Deutscher Wetterdienst, Berichte, 5(38):19-21, 1957. 10 refs., 10 figs. DWB, DLC—In the  
atmosphere the internal and kinetic energy is transferred from air particle to air particle with  
the velocity of sound. It is shown by thermodynamic considerations that the propagation  
intensity of kinetic energy is greater than the velocity of sound. The energy equation of an  
open system can be written in the form*

*$\frac{\partial}{\partial t} \int_D (U+P+K) \rho d\tau = \frac{dQ}{dt} + \int_s \rho V_n ds + \int_s (U+P+K)_n V_n ds,$*

*where  $U, P, K$ —internal gravitational kinetic energy of unit mass,  $dQ/dt$ —heat advected to the  
system per unit time,  $V_n$ —normal component of the motion vector upon the surface  $s$  of the  
system (positive when directed internally),  $\rho$  and  $\sigma$ —barometric pressure and air density,  
 $d\tau$ —volume element,  $ds$ —surface element of the system. From this equation it is evident  
that the total change of energy content of the system is equal to the energy flow through the  
surface; namely, radiant and advective heat, internal and kinetic energy with sound velocity  
and internal kinetic and gravitational energy with wind velocity. The energy transformation  
equations.—J.L.D.*

*GW**28**12**August 3, 1959*

CADEZ, M.

SCIENCE

PERIODICALS: ACTA ZOOLOGICA. Vol. 62, No. 3, May/June 1958  
IDOJARAS. Vol. 62, No. 3, May/June 1958

Cadez, M. Internal and external influences on weather development. In English. p.129

Monthly list of East European Accessions (EEA) LC, Vol. 8, No. 2,  
February 1959, Unclass.

CADES, M., professor of meteorology

Thermodynamic diagram for relative humidity. Idojaras 64 no.1:8-12  
Ja-F '60.  
(EEAI 10:1)

1. University of Beograd.  
(Humidity)

CADEZ, M. (Beograd)

On subsidence inversions. Idojaras 64 no.4:199-204 Jl-Ag '60.  
(EEAI 10:2)  
(Atmospheric temperature)

GADEZ, Marijan, dr., prof.; PECZELY, Gyorgy [translator]

Simultaneously advancing cold fronts from various directions  
into the Pannonian Plain. Idojaras 66 no.3:129-134 My-Je '62.

1. Belgradi Egyesem Meteorological Tanszeka (for Gadez).

CADEZ, M., prof. dr. (Beograd)

Air flow in a variable pressure field. Idojaras 66 no.6:  
328-344 N-D '62.

L 31368-66 EWT(d)/FCC IJP(c)  
ACC NR: AP6021119

SOURCE CODE: HU/0033/65/069/04-/0193/0197

AUTHOR: Cadez, Marjan (Professor; Doctor; Belgrade); Ertel, Hans (Professor; Doctor; Berlin)

ORG: Cadez Institute for Meteorology, University of Belgrade, Belgrade; Ertel Institute for Physical Hydrography, DAW, Berlin (Institut für Physikalische Hydrographie der Deutschen Akademie der Wissenschaften)

TITLE: Analogous characterizations of the continuity equation

SOURCE: Idojaras, v. 69, no. 4-5, 1965, 193-197

TOPIC TAGS: Lagrange equation, partial derivative

ABSTRACT: Analogous characterization of the continuity equation was accomplished by combining the local differentiation with respect to time and the Lagrangian equations for continuity. The analogous characterization thus obtained represents material variables, as verified by the rule for the differentiation of determinants together with the commutative property of partial derivatives. Orig. art. has: 22 formulas.  
Orig. art. in German JPRS

SUB CODE: 12 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 006

Card 1/1 1c

L 35969-66 FCC

ACC NR: AP6027386

SOURCE CODE: HU/0033/65/069/006/0327/0331

AUTHOR: Cadez, Marjan (Professor; Doctor; Belgrade); Ertel, Hans (Professor; Doctor; Berlin)

ORG: [Cadez] Faculty of Applied Mathematics, Instituto of Meteorology, University of Belgrade, Belgrade (Pirodno-Matematički Fakultat Univerziteta u Beogradu, Meteorologiski Zavod); [Ertel] Institute for Physical Hydrography, DAW, Berlin-Friedrichshagen (Institut für Physikalische Hydrographie der DAW zu Berlin) 22  
B

TITLE: Sedimentation in the atmosphere under persistence of the intrinsic sources of the turbulent diffusion stream

SOURCE: Idojaras, v. 69, no. 6, 1965, 327-331

TOPIC TAGS: atmospheric diffusion, meteorology

ABSTRACT: The downward motion of suspended particles in the atmosphere near the ground level was investigated by introducing the principle of persistence for the intrinsic sources of the turbulent diffusion flow. The data calculated on the basis of the considerations discussed correlated well with observed values. Orig. art. has 15 formulas. [Orig. art. in German.] [JPRS: 34,270]

SUB CODE: 04 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 002

*ms*  
Card 1/1

## ROMANIA

CIRONEANU, I., Dr, of the Ministry of Light Industry (Ministerul Industriei Usoare), SIMION, Elena, Veterinarian, of IRIC [unidentified] Bucharest, CADIS, A., Eng, of the IRIC, Cluj, BADEA, Ecaterina, Eng, and CHEBAC, C. of IRIC, Galati.

"Investigations on Cattle Hypodermosis in Rumania."

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 13, No 6, Jun 63, pp 67-74.

Abstract [Authors' English summary modified]: It was found that hypodermosis is most frequent in the sub-Carpathian, hilly and plateau regions, less frequent in the plains, and rare in the Danube lake region. The frequency of hides depreciated by hypodermosis increases rapidly starting in March, reaches its apex in April-May, is still quite high in June-August and then gradually diminishes. Intensity and frequency of affliction is higher for young bulls than for adult cattle, in some areas as much as 2.2 times. Because of their localization in the dorsal region, hypodermoses damage the most valuable part of the hide and thus reduce its value by about 50 percent. Contains 1 table, 2 graphs, 3 figures and 13 Rumanian references.

1/1

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307930011-7

DAVINESCU, D.; DALAS, Melania; NEA, A.

Contributions to the study of alfalfa culture. Studii biol  
agr Iasi 14 no.2;355-362 '63.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307930011-7"

CAESAR, Jan, inz.

New method of welding bottoms of square sectional chambers.  
Stroj vyr 13 no.3:202 Mr '65.

*CAFELIN P.*

CZECHOSLOVAKIA/Analytical Chemistry. Analysis of Organic  
Substances.

E-3

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43101.

Author : Cafelin Pavel, Sittler Eduard.

Inst :

Title : Quantitative Determination of Epsilon-Caprolactam  
in Polymer by the Kjeldahl Method.

Orig Pub: Chem. listy, 1957, 51, No 7, 1320-1322; Collect.  
Czechosl. chem. commun., 1958, 23, No 3, 422-425.

Abstract: For a quantitative determination of epsilon-capro-  
lactam (I) by the Kjeldahl method the sample is  
digested over a small flame with concentrated H<sub>2</sub>SO<sub>4</sub>  
in the presence of 2 g of catalyst consisting of  
90 parts K<sub>2</sub>SO<sub>4</sub> : 5 parts V<sub>2</sub>O<sub>5</sub> : 2 parts Se black  
(other catalysts are not suitable) for 15-45 minutes,

Card : 1/2

23

CZECHOSLOVAKIA / Chemical Technology. High Molecular I  
Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 14, 1959, 52209.

Author : Cafelin, P.; Trekoval, J.; Drbalek, Z.

Inst : Not given.

Title : Specific Gravity Determination of the  $\epsilon$ -Caprolactam Polymerization Products.

Orig Pub: Chem. listy, 1958, 52, No 7, 1243-1248.

Abstract: Dependency of the polymer melt's specific gravity and the degree of polymerization was established. The polymerization was conducted at different temperatures with the monomer content reaching up to 9.7% and the determinations of specific gravity of polymers were made for the temperatures ranging from 50° to 260°. Specific gravity (d) of a polymer depends on its weight fraction (c) and tem-

Card 1/2

H-209; I-1

CZECHOSLOVAKIA / Chemical Technology. High Molecular Chemistry. I

Abs Jour: Ref Zhur Khimiya, No 14, 1959, 52209.

Abstract: perature (t):  $d = 1.0971 - 8.66 \cdot 10^{-4} + (3.00 \cdot 10^{-4}t + 3.31 \cdot 10^{-2})C$ .

At a constant monomer content, specific gravity is the linear function of temperature and does not depend on the degree of polymerization. At the crystallization point and near the melting point ( $135-220^\circ$ ), specific gravity depends on the rate of these processes. The experimentally determined values, for equally rapid changes in state conditions, indicate existence of hysteresis. The dilatometric method is described in detail, together with comments pertaining to possible determination errors.

Card 2/2

CAFFE, G.

TECHNOLOGY

Periodicals: PETROL SI GAZE. Vol. 9, no. 8, Aug. 1958

CAFFE, G. A modification made upon the State standard 407/ 49, 310 mm.  
diameter, fishtail bit. p. 343

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

CAFFE, Colibășan

Construction of the lower part of turbine drilling stems. Petrol si  
gaze 13 no.11:483-488 N '62.

L 33066-66

ACC NR: AP6024219

SOURCE CODE: RU/0007/65/016/010/0547/0552

AUTHOR: Caffe, C.--Kaffe, K. (Engineer)9  
B

ORG: none

TITLE: Ways of increasing the productivity of the drilling cycle in deep drilling

SOURCE: Petrol si gaze, v. 16, no. 10, 1965, 547-552

TOPIC TAGS: well drilling machinery, petroleum industry equipment

ABSTRACT: The author discusses the main problems that must be solved to increase drilling productivity at depths to 15,000 meters. The foremost problem concerns the improvement of the current equipment so as to extend its useful range beyond the current 8,000 meters, as well as the development of entirely new types and the modification of operating procedures to take account of the differing conditions.  
Orig. art. has: 4 figures and 1 formula. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 008

Card 1/1 (da)

UDC: 622.241.505.004.15

0915

1870

BELOIU, Irina, Dr, and CAFFE, Ileana, Dr. Work performed at the Pathogenic Cocci Section (Sectia Coci Patogeni) of the "Dr I. Cantacuzino" Institute (Institutul Dr I. Cantacuzino").

"The Cultivation of Non-Haemolytic Pneumococci and Streptococci in TSIEM Glucose Broth."

Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 8, No 3, May-Jun 63, pp 267-270.

Abstract [Authors' English summary modified]: The TSIEM medium is a 2 percent glucose peptite digestion broth with a high nutritive value. Five and 18-hour cultures of pneumococci and streptococci on TSIEM medium showed 2 to 10 times higher concentrations than were obtained with the commonly recommended media (serum, Truche or glucose broth). The use of TSIEM broth is recommended for the culture of pneumococci, streptococcus viridans, and enterococci. Includes 2 tables and 8 references, of which 4 Western, 1 Russian and 3 Romanian.

POZSGI, N.; CIPLA, Al. Gh.; BONA, C.; ANDRESCO-TIGOIU, Viorica; CAFFE,  
Ileana; ARION, R.: Assistente medicale: IUGA, Georgeta

Contribution to the study of the chondriome in experimental  
infection with B. pertussis. Arch. roum. path. exp. microbiol.  
23 no.3:591-596 S'63

1. Travail de l'Institut "Dr. I. Cantacuzino", Bucarest.

NESTORESCO, N.; ALEXENCO, Ecaterina; GEORGESCO, Colette; TUPA, Sanda;  
SZEGLI, Lucia; CAFFE, Ileana

Characteristics of the antibiotic resistance of certain strains of  
Staphylococcus and Salmonella isolated from patients undergoing  
antibiotic treatments. Arch. Roum. path. exp. microbiol. 20 no.3:  
381-385 S '61.

1. Travail de l'Institut "Dr. I.Cantacuzino" Service des  
Enterobacteriacees.  
(STAPHYLOCOCCUS pharmacology) (SALMONELLA pharmacology)  
(ANTIBIOTICS pharmacology)

BALDOVIN-AGAPI, Coralia; BELOIU, Irina; CAFFE, Illeana; PLECEAS, Paula

The species of non-hemolytic streptococci found in subacute endocarditis and their sensitivity to antibiotics. Arch. Roum. path. exp. microbiol. 20 no.3:479-489 S '61.

1. Travail de l'Institut "Dr. I. Cantacuzino" Service des Cacci pathogenes.

(ENDOCARDITIS, SUBACUTE BACTERIAL microbiology)

(STREPTOCOCCUS pharmacology)

(ANTIBIOTICS pharmacology)

CIPLEA, A.Gh.; POZSGI, N.; BONA, C.; ANDREESCO-TIGOIU, Viorica;  
CAFFE, Ileana

Histopathological and histochemical changes in experimental  
infection and immunization with B. pertussis. Pt.l. Arch.  
Roum. path. exp. microbiol. 23 no.4:985-996 D '64.

l. Travail de l'Institut "Dr. I. Cantacuzino", Services  
d'Anatomie Pathologique et de la B. pertussis. Submitted  
June 14, 1964.

CAFFE, L.

Determination of mechanical characteristics of rocks by boring.  
p. 401. PETROL SI GAZE. Bucuresti. Vol. 6, No. 9, Sept. 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307930011-7

UNPUBLISHED, J.

"The educational film, an effective aid in disseminating new progressive work methods."  
Uhli, Praha, Vol 4, No 4, Apr. 1954, p. 105

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

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307930011-7"

HYANEK, J.; CAFOURKHOVA, Z., technicka spoluprace

Contribution to the problem of the trypsin-inhibiting activity  
of the serum in newborn infants. Cesk pediat 18 no. 3:214-219  
'63.

1. Ustredni laborator fakultni polikliniky v Praze, vedouci  
doc. dr. J. Homolka, DrSc.  
(INFANT, NEWBORN) (TRYPSIN)

HYANEK, J.; HYANKOVA, E.; CAFOURKOVA, Z.; VANECKOVA, V.

Our experiences with a screening test for cystinuria and amino-aciduria. Cesk. pediat. 20 no.9:781-784 S '65.

1. Ustredni laborator Fakultni nemocnice 2 a oddeleni klinicke biochemie fakulty vseobecneho lekarstvi Karlovy Universtiyy v Praze (vedouci prof. dr. J. Homolka, DrSc.) a Detske oddeleni Obvodniho ustavu narodniho zdravi v Praze 9 (vedouci MUDr. A. Guttmanova).

HYANEK, J.; CAFOURKOVA, Z.

A simple screening test for detection of increased urinary excretion of amino nitrogen. Cas. lek. cesk. 104 no.19:524-525  
14 My '65.

1. Oddeleni klinicke chemie UNZ NV hl. mestsu Prahy a Ustredni laborator FN (vedouci: prof. dr. J. Homolka, DrSc.).

L 61579-65	
ACCESSION NR: AP5023133	RU/0012/64/000/004/0675/0681 25 B
AUTHOR: Niculescu, Gh. (Colonel, Physician); Giurgiu, T. (Candidate of medical sciences, Major, Physician); Cafrits, A. (Major, Physician); Safta, T. (Major, Veterinary physician)	
TITLE: Experimental studies and therapeutic considerations in the metabolic syndrome following severe burns	
SOURCE: Revisia sanitara militara, no. 4, 1964, 675-681	
TOPIC TAGS: blood, biologic metabolism, injury, dog	
ABSTRACT: Comprehensive study of experimental burns in 20 dogs with special attention to their fluid and electrolyte needs, blood protein fluctuations. Data on dynamics of hematocrit, electrical resistance of plasma, blood urea; plasma cryoscopy; use of THAM buffer amino. Orig. art. has: 6 figures, 5 tables.	
ASSOCIATION: none	
SUBMITTED: 00	ENCL: 00
NR REF Sov: 000	OTHER: 017
Card 1/1	JPRS

L 64725-65

ACCESSION NR: A15023245

RU/0019/65/000/005/0799/0804

AUTHOR: Carrizo, Al. (Doctor, Major); BenAiles, Tr. (Doctor, Lieutenant Colonel)

TITLE: Considerations on five cases of post-surgical acute renal insufficiency

SOURCE: Revista sanitaria militar, no. 3, 1964, 789-804

TOPIC TAGS: drug treatment, therapeutics, nervous system drug, vitamin, internal medicine

ABSTRACT: The authors report the successful treatment of 5 cases of post-operative acute renal insufficiency by the use of conservative treatment plus intensive therapy with hyperosmolar glucose, calcium, vitamins, etc., combined with lumbar novocain infiltration. The case histories are presented.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

NR REF Sov: 001

OTHER: 008

JPRG

1/1 llc

I 64572-65

ACCESSION NR: AP5023479

RW/0012/64/000/006/1009/1013 1  
23 B

AUTHOR: Baciu, L. (Lieutenant Colonel, Doctor); Babolea, C. (Lieutenant Colonel, Doctor); Filip, I. (Major, Doctor); Cafrita, A. (Major, Doctor)

TITLE: Observations on a case of mesenteric adenophlegmon, a rare complication of non-characteristic mesenteric lymphadenitis

SOURCE: Revista sanitara militara, no. 6, 1964, 1009-1013

TOPIC TAGS: surgery, gastroenterology, digestive system, digestive system disease

ABSTRACT: The article describes the symptoms of this affliction, the tests carried out on the patient, the surgery and the post-operative treatment, and discusses the possible causes of this infection.

ASSOCIATION: none

SUBMITTED: 00

ENCL: CO

SUB CODE: LS

NR REF Sov: 000

OTHER: 000

JPRS

Card 1/1

RUMANIA

SUTEU, I., Colonel, Medical Corps; CAFRITA, At., Major, Medical Corps; BANDILA, Tr., Lieutenant-Colonel, Medical Corps; GIURGIU, T., Lieutenant-Colonel, Medical Veterinary Corps; STRIMBEANU, I., Colonel, Medical Corps; IONESCU, P., Major, Medical Veterinary Corps; and VERDES, A., Lieutenant-Major, Medical Corps.

"Pressor Amine Levels in the Regulation of Splanchnic Circulation in Shock"

Bucharest, Revista Sanitara Militara, Vol 16, Special No., 1965; pp 54-57

Abstract: Study of possible shock-preventative or shock-ameliorating role of norepinephrine in dogs; whereas intravenous administration preceding severe experimental hemorrhagic shock was followed by death, intra-aortic administration prevented death and, when combined with administration of a ganglioplegic(hexomethonium)it stabilized blood pressure most impressively. The role of hexomethonium is to mobilize capillary blood, of epinephrine to relax splanchnic vein valves, increasing effective blood volume. Same results in one patient. 4 kymograms, 1 table.

1/1

- 61 -

RUMANIA

NICULESCU, Gh., Colonel, Medical Corps, Dr. in Medical Sciences; FILIP, I., Major, Medical Corps; BACIU, D., Colonel, Medical Corps; and CAFRITA, A., Major, Medical Corps.

"Contribution to Surgical Treatment of Hepatic Trauma"

Bucharest, Revista Sanitara Militara, Vol 62, No. 3, May-June 1966;  
pp 467-483

Abstract: Data on 7 patients treated during the last 6 years for liver wounds: 3 were due to firearms, 3 to traffic accidents, 1 to occupational accident. Very detailed data and discussion on anatomical aspects, therapy with stress on surgical treatment. Two patients succumbed, the other 5 recovered; all 7 were treated surgically. Table, 16 anatomical and surgical diagrams, 1 Soviet, 7 Western, 9 Rumanian references. Manuscript received 7 February 1966.

CAFTANGIOGLU, A.

Aspects of the organization of construction works. p. 398.  
(INDUSTRIA CONSTRUCTILOR SI A MATERIAIELOR DE CONSTRUCTII. No. 7, 1957, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 2, No. 12, Dec. 1957  
Uncl.

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

T

Abs Jour : Ref Zhur Biol., No 6, 1959, 27039

Author : Niks, M., Cagan, S., Gaborik, J.

Inst : -

Title : Conditioned-Reflex Changes to ECG Experimental Animals.

Orig Pub : Bratisl. laskar listy, 1957, 2, No 12, 714-719

Abstract : After 5 combinations of conditioned stimulus with elec-  
troshock in 3 of 4 dogs, change of cardiac rate was ob-  
served, and on ECG - changes of PQ interval, T-wave, ST-  
segment in action of conditioned signal. The obtained  
data proves the presence of central regulation of car-  
diac activity.

Card 1/1

GAGAN, S. [Gagan, S.]

9

Electrocardiographic picture following experimental obstruction of  
the coronary artery in a dog; effect of the position of the fore-  
legs on ECG. Biul.eksp.biol.i med. 48 no.12:37-42 D '59.

(MIRA 13:5)

1. Iz kafedry eksperimental'noy patologii i farmakologii meditsinsko-  
go fakul'teta Universiteta imeni Ya.A. Komenskogo (zav. - prof.  
G. Bardoch), Bratislava. Predstavlena deystvitel'nym chlenom AMN  
SSSR V.V. Parinym.

(EXTREMITIES physiol.)  
(CORONARY VESSELS physiol.)  
(ELECTROCARDIOGRAPHY)

NIKS, Milan; STEFANOVIC, Jan; CAGAN, Stanislav; GABRIK, Jozef; HULIN, Ivan

At attempt to influence certain biological properties of blood cells  
and blood serum by electric shock. Biologia 15 no.6:438-444 '60.  
(EEAI 9:10)

1. Katedra experimentalnej patologie a farmakologie Lekarskej  
fakulty Univerzity Komenskeho, Bratislava.

(ELECTRIC SHOCK)

(BLOOD)

(SERUM)

(PHAGOCYTES)

L 15244-66	EWA(j)/EWA(b)-2	RO
ACC NR: AP6006046	SOURCE CODE: CZ/0053/65/014/004/0296/0296	
AUTHOR: <u>Inczinger, F.</u> ; <u>Caganova, A.</u> ; <u>Zackova, P.</u> ; <u>Kozlovska, J.</u> ; <u>Bozner, A.</u> 32B		
ORG: Department of Pharmacodynamics and Toxicology, Faculty of Pharmacy, Comenius University, Bratislava (Katedra farmakodynamiky a toxikologie Farmaceutickej fak. UK)		
TITLE: Effect of ATP spora on biochemical functional and structural changes in the experimental model of hypertrophied rat myocardium [This paper was presented during the <u>Twelfth Pharmacologic Days</u> , Smolenice, 27 Jan 65.]		
SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 296		
TOPIC TAGS: organic phosphorus compound, heterocyclic base compound, myology, carbohydrate, rat, biochemistry, animal physiology 6		
ABSTRACT: At 0.12 mg /rat s.c., <u>adenosine triphosphate</u> statistically significantly decreases the cardiac hypertrophy brought about by daily swimming with a handicapping weight added of 8% of body weight, for 9 days. Residual and total glycogen increased significantly after ATP. /JPRS/		
SUB CODE: 06 / SUBM DATE: none / OTH REF: 002		
Card 1/1		

CZECHOSLOVAKIA

INCZINGER, F.; CAGANOVA, A.; Chair of Pharmacodynamics and Toxicology, Pharmaceutical Faculty, Comenius University (Katedra Farmakodynamiky a Tokikologie Farmaceutickej Fakulty UK), Bratislava.

"The Effect of ATP Spofa on the Experimental Hypertrophy of the Rat Cardiac Muscle. II. Study of Electrocardiographic Changes."

Prague, Ceskoslovenska Farmacie, Vol 15, No 8, Oct 66, pp 399-402

Abstract /Authors' English summary modified\_7: Changes in electrocardiographs of Wistar strain female rats in whom hypertrophy was induced by daily swimming until exhaustion for 9 weeks were investigated. 0.12 mg of ATP Spofa was administered to one group of the rats. The rats that did not receive the ATP showed a deviation of the electrical axis to the right after 3 weeks, and to the left after 9 weeks. No deviation to the left was found in rats who received ATP. ATP inhibited heart hypertrophy; small doses increased the heart rate. 2 Figures, 1 note Table, 12 Western, 8 Czech, 1 Russian, 4 Hungarian references. (Manuscript received 30 Mar 66).

1/1

Pharmacology and Toxicology

CZECHOSLOVAKIA

ZACKOVA, P.; CAGANOVA, A.; INCZINGER, F.; Chair of Pharmacodynamics and Toxicology, Pharmaceutical Faculty, Comenius University (Katedra Farmakodynamiky a Toxikologie Farmaceutickoj Fakulty UK), Bratislava.

"The Effect of ATP Spofa on the Experimental Hypertrophy of the Rat Cardiac Muscle. III. Investigation of the Levels of Nitrogen, Collagen, and Glycogen."

Prague, Ceskoslovenska Farmacie, Vol 15, No 8. Oct 66, pp 403-405

Abstract /Authors' English summary modified: The effect of administration of ATP Spofa to rats in whom hypertrophy of cardiac muscle was induced by swimming to exhaustion was investigated to find how the total levels of nitrogen, collagen, and glycogen were affected. The only influence of ATP that was found was the heart stimulation, inhibition of its hypertrophy, and an increase in the reserves of energy of the cardiac muscle. 1 figure, 2 Tables, 6 Western, 6 Czech, 1 Hungarian reference. (Manuscript received 30 Mar 66).

ČAGAS, F.

Distr: 4E3d

/ Cleavage of paraffinic hydrocarbons by the arc method—  
single step process. František Čagas, Miloslav Štaud  
and Anatolij Lazarev (Ústav pro naftový výzkum, Brno  
Czech.). *Cílem, průmysl* 9, 225-30 (1959).—The author  
calcd. standard isobaric potentials at variable temps. for  
the reactions of heat cleavage of CH<sub>4</sub>. From the dependence  
of these potentials on the temp., the reaction of decompn.  
of C<sub>2</sub>H<sub>6</sub> to C and H was not important up to 1540°K., and  
up to 1940°K. asserted itself not fully; above 1940°K  
CH<sub>4</sub> decompd. mainly to C<sub>2</sub>H<sub>6</sub>. The soots originated there-  
fore mainly by the direct decompn. of CH<sub>4</sub> and only in  
smaller degree by the decompn. of C<sub>2</sub>H<sub>6</sub>. The app. was  
described. P. Čafelin

6  
1-jeř (NB)

CAGAS, F.

Distr: 4E3d

Cracking of paraffin hydrocarbons by the arc method.—  
Two-step process. František Cagáš, Miroslav Štaud, and  
Anatolij Lazarev (Ústav pro naftový výzkum, Brno,  
Czech.). Chem. průmysl 9, 342-7(1959); cf. ibid. 225-30.  
H<sub>2</sub>O was replaced by paraffin hydrocarbons<sup>6</sup> for spray  
cooling of the hot (1600°) gaseous product obtained by crack-  
ing CH<sub>4</sub> to C<sub>2</sub>H<sub>2</sub> and C<sub>4</sub>H<sub>6</sub> in the elec. arc; in this way 10-  
15% of the energy lost in the one-step process is utilized.  
The product gas from the 2-step process is enriched in C<sub>4</sub>H<sub>6</sub>  
and C<sub>2</sub>H<sub>2</sub>, and the energy requirements are lowered by 21%  
when calcd. for C<sub>2</sub>H<sub>2</sub>, and by 35-38% when calcd. for C<sub>4</sub>H<sub>6</sub>  
and C<sub>2</sub>H<sub>2</sub>. Use of gasoline for cooling raises its octane no.;  
the optimum ratio is 1 l. of gasoline/cu.m. of CH<sub>4</sub>. The  
design of an arc app. for a flow rate of 5-10 cu.m./hr. is  
given. The duration of the 2-step cracking reaction is  
10<sup>-4</sup>-10<sup>-1</sup> sec. and is followed by cooling the gas to <200°  
by a H<sub>2</sub>O spray. P. Čeřín

6  
1-jul/NB

GAGAS, Zdenek, inz.

Determining the effectiveness of separation by the graphic calculation methods. Sbornik skol ban 8 no.2:201-212 '62.

1. Katedra upravnictvi, Vysoka skola banská.

CAGEN, J

"Old settlements in the area of Slovenska brana."

KRASY SLOVENSKA, Bratislava, Czechoslovakia, Vol. 36, no. 6, June 1959

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, Sept 59  
Unclassified

Physicochemical study of x-ray screen. Archimiro Oahn.  
Lekarske Listy 4, 200-3(1949).--The S in ZnS-TaS phosphors was partially replaced by Se, and exptl x-ray screens were prepd. Care was taken to prop. all compds. in a standardized manner and to deposit equal thicknesses on each screen. The visible spectrum emitted by each screen when irradiated with x-rays was studied with a spectrograph. It was found that Se produced a shift in the emission max. toward longer wave lengths and a larger total emission in the visible range.

H. Newcombe

GAHA, Archimiro, MUDr, RNDr; PROKES, V., RNDr; DADOK, J., ing.

Scintillation intensimeter and example of its use in the determination  
of isodosic curve of radium applicators. Cesk.rentg. 9 no.3:89-94  
Aug 55.

1. Onkologicky ustan Brno, Fysikalni ustan Vys.skoly stavitelstvi,  
Brno, Vyvojove dily CSAV, Brno  
(RADIMUM, dosage,  
scintillation intensimeter in determ. of isodosic curve  
of radium applicators)

CAHA, Archimiro, MUDr., RNDr.; za spoluprace: SPRINDRICH, J., Dr.

Relative measurement of the brightness of a roentges picture  
with a photo multiplicator. Cas. lek. cesk. 94 no.24;642-646  
10 June 55.

1. Onkologicky ustav Brno, reditel doc. Ing. O. Benese, laborator  
pro zdokonaleni stitiva fotografie, Brno, Ing. F. Dadok, Vyvojove  
dilny CSAV, Brno, RNDr. V. Prokes, fysikalni ustav vysoka skoly  
stavitelske, Brno.

(ROENTGENOGRAMS

picture brightness measurement with photo multiplicator)

CAHA, A., Adr. MUDr.; MAJELIS, H., MUDr.; PUCHEN, V., MUDr.; SIKORA, O., Ing.

Imaging with hard filming technic. Ceak. roentg. II no.1:62-69  
May -7.

L. onkologicky ustan Brno, reditel doc. Dr J. Sprindrich, Fys. ustan  
vysoc. skoly - tevitelskvi, Brno Ustav rty oddeleni statni fakultni  
pracovniho Brno, primar (MUDr. J. Lada).

(IMAGES; radiography  
hard filming technic (Ca))

CAHA, A., Dr.; PROKES, V. Dr.

New methods of determining the course of isodose curves in the region of Ra applicators and the relative composition of doses in the angle of incidence in radiotherapy. Cesk. rentg. 11 no. 3:190-196 Aug 57.

1. Onkologicky ustav, Brno-Zluty kopec, reditel doc. Dr. Sprindrich  
Fysikalni ustav prirodovedecké fakulty MU, Brno.

(RADIOTHERAPY,

dosimetry, quantitative determ. of dosage composition (Cs))

(RADIUM, ther. use

dosimetry, determ. of isodose curves (Cs))

CAHA, A., Dr.; PROKES, V., Dr.; KALLUSCH, K.

Gammagraph for medical use; preliminary report. Cesk. rentg. 11 no.3:  
197-200 Aug 57.

1. Onkologicky ustav v Brne, red doc. Dr. J. Sprindrich. Fysikalni ustav  
prirodovedecke fakulty MU v Brne Prvni Brnenske strojirny, Z, KG.  
(GAMMA RAYS,  
gamma radiography, appar. (Cs))

CAHA, A., Dr.; DOLNCEL, M., Dr.; PROKES, V., Dr.

Dosimetry by means of solid substances. Cesk. rentg. 12 no.2:114-120  
June 58.

1. Onkologicky ustav Brno, red. doc. Dr. J. Sprindrich Fysikalni ustav  
prirodovedecké fakulty MU, Brno. A. C., Brno, Zluty kopec 7.

(ROENTGEN RAYS,  
dosimetry by means of diamonds (Cz))

(CARBON,  
diamonds, use in dosimetry of x-rays (Cz))

KOTAS,J.; CAHA,A.; DOLEZEL,M.

Cancer of the maxilla - therapy by means of the intracavitary applicator. Cesk. rentg. 14 no.3:156-161 Je '60.

1. Onkologicky ustav v Brne, prednosta doc. dr. J. Sprindrich.  
(MAXILLA neopl.)

CAHA, A.; DOLEZEL, M.

A device for the instillation of radioactive solutions. Cesk.  
rentg.15 no.1:25-29 F '61.

1. Onkologicky ustav v Brne, reditel doc. dr. Jan Sprindrich.  
(RADIOISOTOPES)

CAHA, A.; PROKES, V.

Gammagraph for medical use. Cesk. rentgen. 18 no.4:271-273  
Jl '64

1. Onkologicky ustav v Brne (reditel: MUDr. D.Kadlecova, CSc.)  
Katedra elektroniky a vakuove fizyki prirodovedecke fakulty  
UJEP [University J.E.Purkyne] v Brne (vedouci: doc. dr.  
V.Trunecek).

KOSINKA, E.; HORN, V.; CAHA, A.

Healing of irradiated bone homografts. Acta chir. orthop. traum.  
Cech. 32 no.5:432-435 O '65.

1. Ortopedicka klinika lekarske fakulty University J.E. Purkyne  
v Brne (prednosta prof. dr. M. Janecek, CSc.) a Onkologicky  
ustav v Brne (reditelka MUDr. D. Kadlecova).

CAHA, S.

Investigating the hardness of metals and the value of comparative tables,  
p. 383, TEHNIKA, (Savez inzenjera i tehnicara Jugoslavije) Beograd,  
Vol. 9, No. 3, 1954

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

CAHA, Milos

Degasification of demineralized water in the condenser of  
turbogenerator in the Opatovice electric power plant.  
Energetika Cz 12 no.10:541 0 '62.

1. Elektrarna Opatovice.

CAHA, Miroslav, inz.

Tower houses built with large panels. Poz stavby 11  
no.11:593-596 '63.

1. Krajsky investrosky utvar Sokolov.

CAHA, S.

Bearing alloys from domestic metals. p. 1430

TEHNIKA, Beograd, Vol 10, No. 9, 1955

SO: KERAL, Vol 5, No. 7, July 1956

PHASE I BOOK EXPLOITATION 803

Caha, Vladimír, Engineer, and Procházka, Miroslav, Engineer

Anteny (Antennas) Prague, SNTL, 1956. 462 p. 3,500 copies printed.

Reviewers: Stránský, Josef, Dr., Engineer, Corresponding Member of the Czechoslovak Academy of Sciences, and Beňa, Josef, Dr., Engineer; Ed.: Major, Rudolf; Tech. Ed.: Appl, Jiří;

PURPOSE: This book is a textbook for institutions of higher learning. It may be used also by technicians in research establishments and in factories of the electrical equipment industry.

COVERAGE: The monograph deals with the theoretical principles of transmitting and receiving antennas and of antenna systems, and discusses several antenna types and constructions from the point of view of practical design, calculation and measurement. The book is based on information acquired in the course of several years experience in the theory and practice of antenna design. For technical reasons it proved necessary to omit any treatment of the following subjects:

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Antennas

803

the fundamental relations of the electromagnetic field and the propagation of an electromagnetic field along a conductor; descriptions of certain types of antennas rarely encountered in practice (for example, polygonal antennas); grounding systems for a symmetrical antennas. In the chapter on impedance relations in antenna conductors, the authors limited themselves to a simple enumeration of current methods of calculation. In composing the book, the authors have tried to include the richest material accessible in the domestic (Czech) and foreign literature on the subject since in Czechoslovakia there has not been enough experience in microwave work. As far as standard symbols are concerned, the designation of time and space vector magnitudes caused typographical difficulties. The time vectors and complex numbers, therefore, are indicated in normal italics. The space vectors are given in half-thick italics. The technical terminology follows the provisional plan for terminology standards worked out by the Ministry of Machine Building. In several cases, where it was found that a given term was already in wide use, this is not so. The author thanks the electrical engineering editorial staff of SNTL for their help in preparing the book for publication. No personalities are mentioned. There are 159 references of which 13 are Czech, 10 Soviet, 19 German, 1 Swedish, 6 French, and 109 English, including 1 translation. In addition, another Soviet source is cited in the preface.

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Antennas 803

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5206 APPLICATION OF THE CIRCLE DIAGRAM FOR DETERMINING THE RADIATION OF TWO-ELEMENT ACTIVE ARRAYS

SYSTEMS

By Captain GREGORY H. S. SIDOROVIC  
Tactical Electronic Warfare Division

THE CIRCLE DIAGRAM IS A PRACTICAL AND APPROPRIATE CALCULATING DEVICE WHICH ALLOWS THE DETERMINATION OF THE RADIATION PATTERN OF AN ACTIVE SYSTEM BY MEANS OF A SIMPLE CALCULATOR AND APPROPRIATE AUXILIARY LINES. THEY CAN BE COMBINED IN A SINGLE PRACTICAL CALCULATOR AND LEAD THEMSELVES TO THE DETERMINATION OF THE RADIATION PATTERNS OR, ALTERNATIVELY, TO THE EVALUATION OF THE ELECTRICAL AND GEOMETRICAL PARAMETERS OF THE SYSTEM TO GIVE A DESIRED RADIATION PATTERN. APPLICATION OF THE CALCULATOR IS ILLUSTRATED IN THIS PRACTICAL WORK (BOTH FOR  $\delta = 0$  AND  $\delta \neq 0$ )

R. S. Sidorovich

BT AMT

1-7810

✓ 1205. GRAPHICAL DETERMINATION OF THE RADIATION OF  
THE AERIAL SYSTEMS COMPOSED OF TWO INDIVIDUAL ACTIVE  
ELEMENTS Y.Caha

Statoptudy Obzor, Vol. 16, No. 3, 1957. In Czech

The aerial is assumed to consist of two simple radiators (e.g. dipoles) which are fed by currents having a phase difference  $\delta$ . The radiation pattern of each radiator is characterized by  $H(\varphi_{11})$ . The total radiation pattern of the system is given by  $F(\varphi_{11}) \times H(\varphi_{11})$ , where  $\varphi = \delta + 2\pi \sin \varphi \sin \chi$ .  $H(\varphi_{11})$  is the so-called compound far group characteristic and is the actual quantity to be determined graphically. The problem is solved in two stages. First, it is assumed that  $\delta = 0$  and  $H(\varphi_{11})$  is found by means of a unit circle diagram. A number of special cases are considered and illustrated by appropriate diagrams. A finite value of  $\delta$  is then employed and the diagram is modified accordingly by adding to it an annulus, which envelopes the unit circle. The final diagram which is applicable to practical calculations.

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6791. AN IMPEDANCE METER FOR THE FREQUENCY BAND  
FROM 100 TO 300 Mc/s. V.Caha.

Slaboproudny Obzor, Vol. 19, No. 6, 1958-8 (1958). In Czech.  
The instrument consists of three segments of a coaxial line  
which form a T-junction. One arm of the junction is terminated  
with its characteristic resistance,  $Z_0$ ; the second arm is used as  
a feeder, while the third arm (opposite the first arm) is terminated  
with the measured impedance (e.g., an aerial),  $Z_x$ . Each arm is  
provided with a slot. The slots are situated at equal distances  
from the centre of the junction. A rectangular inductive loop is  
fitted above the slots. The centre of the loop coincides with the  
centre of the junction and the loop can be rotated. The current in  
the loop is rectified and measured by means of a galvanometer.  
The unknown  $Z_x$  (both modulus and phase) can be determined, in  
terms of  $Z_0$ , by reading the current in four different angular  
positions of the loop.

R.S. Sidorowicz