

CAHA, Vladimir, inz.

Cooperation between Czechoslovakia and the German Democratic Republic  
in the research on communications. Cs spoje 7 no.3:2 Mr '62.

1. Vyzkumny ustav spoju.

L 1034-66

ACCESSION NR: AP5025947

CZ/0039/65/026/005/0286/0290

AUTHOR: Caha, Vladimir (Engineer)

TITLE: Problems of unified radio-frequency coaxial cable connectors

SOURCE: Slaboprudy obsor, v. 26, no. 5, 1965, 286-290

TOPIC TAGS: coaxial cable, communication equipment, RF cable

ABSTRACT: The article deals with unified connector elements for coaxial cable lines from the operational, checking and measuring points of view. Shortcomings of individual designs are discussed, and the procedure used in designing the "U" series of connectors is described. Orig. art. has: 5 figures and 1 table.

ASSOCIATION: Vyzkumny ustav spoju, Prague (Communications Research Institute)

SUBMITTED: 30Nov64

ENCL: 00

SUB CODE: EC

NR REF SOV: 000

OTHER: 000

JPRS

Card 1/2mj

CAHA, Zdeněk, inz.

Possibility of using integral optimization methods in electric  
regulating drives. El tech obzor 53 no. 1: 31-35 Ja '64.

1. Ceske vysoke uceni technicke.

L 40863-66

ACC NR: AP6030190

SOURCE CODE: CZ/0017/66/055/004/0177/0182

AUTHOR: Caha, Zdenek (Engineer; Candidate of sciences)

45  
B

ORG: Czech Institute of Technology

TITLE: Electrical DC drive with a most favorably tuned regulator

SOURCE: Elektrotechnicky obzor, v. 55, no. 4, 1966, 177-182

TOPIC TAGS: analog computer, electronic circuit

ABSTRACT:

The paper deals with the application of an integral criterion of optimum adjustment to a DC drive with a regulator consisting of URS elements. It is shown that this method gives satisfactory results even with simple circuits. With a few suitably selected feedbacks it is possible to obtain good results even without taking into consideration nonlinearities of the saturation type, as was found by comparing the results of measurements on an analog computer and on an actual drive. This paper was presented by Engineer K. Mayer. Orig. art. has: 9 figures and 20 formulas. [Orig. art. in Eng.] [JPRS: 36,811]

SUB CODE: 09 / SUBM DATE: 14May65 / ORIG REF: 002 / OTH REF: 006

Card 1/1 *PC*

UDC: 621.34-55

CAHAN, A., Conf.; BERCOVICI, C.; CIHDEI, I.; BALTIEV, A.; JOSUB, C.;  
CORBER, S.

Sensitivity of typhoid bacilli to chloramphenicol and  
nitrofurantoin. Rev. igiena microb. epidem., Bucur. Vol. 4:71-79  
Oct-Dec 55.

1. Lucrare efectuata la institutul de medicina Iasi catedra de  
epidemiologie si la Institutul Cantacuzino, filiala Iasi,  
Sectia cercetari.

(SALMONELLA TYPHOSA, eff. of drugs on  
chloramphenicol & nitrofurantoin, sensitivity tests.

(CHLORAMPHENICOL, eff.  
on Salmonella typhosa, sensitivity tests.

(FURAN DERIVATIVES, eff.  
nitrofurantoin, on Salmonella typhosa, sensitivity tests.

EXCERPTA MEDICA Sec.17 Vol.4/4 Public Health, etc. Apr 58

CAHAN, A.

III. SENSITIVITY OF *S. TYPHOSA* TO CHLORAMPHENICOL AND NITROFURAN - Sensibilitatea bacililor tifici la cloramfenicol și nitrofuran - Cahan A., Bercovici C., Cirdei I., Baltiev A., Iosub C. and Corber S. Inst. de Med. Iași; Cat. de Epidemiol. și Inst. 'Cantacuzino', Iași - MICROBIOL. PARAZITOL. EPIDEMIOLOG. 1956, 1/1 (25-33)  
Tables 5

A study was made of 182 strains of *S. typhosa* isolated between 1952 and 1954: 128 were isolated by haemoculture, 52 by coproculture, 1 by biliculture and 1 by uroculture. The isolation, typifying and preservation of the cultures were effected by the usual methods. The minimal bacteriostatic dose (m. b. d.) was determined in peptonic broth at pH 7.6, with thymol bromine blue. Approximately 1,000 germs were inoculated, antibiotics being added in increasing amounts in geometrical progression at a rate of 2. The results were evaluated after 18 hours' incubation at 37° C. Almost all the strains (99%) were sensitive to a concentration of 0.1-4 μg./ml. of chloramphenicol, i. e. in the blood concentration obtained by usual doses of the antibiotics (5-25 μg./ml.). No differences were observed between germs isolated from the same patient by haemoculture, coproculture, uroculture or biliculture, as regards the year of isolation of the germ, the bacteriophagic type, between germs isolated in different periods of the disease, in the number of cases of relapse due to the same type of germs, in patients previously treated with the same antibiotic in insufficient doses. The study of 84 strains by means of nitrofurantoin led to the same findings, the only difference being that the m. b. d. was between 7 and 8 μg./ml. The effect of chlortetracycline on 70 strains was studied in the same conditions of cultivation as well as in broth at pH 6.5-7, at 25-30° C. In vitro, the germs presented sensitivity to concentrations between 1 and 8 μg./ml. The general conclusion is that forms of germs resistant to the antibiotics tested were not demonstrated.

Nadudvary - Cluj (XVII, 4)

Country : ROMANIA F  
Category : Microbiology - General Microbiology  
Abs. Jour : Ref Zhur - Biol., No.19, 1958, 85892  
Author : Cabane, D.; Volcinschi, L.  
Institut. : Iasi University  
Title : A New Species of Pigment-Forming Cocci  
  
Orig Pub. : An. Stiint. Univ. Iasi, 1956, Sec.2, Vol.2, No.2,  
61-63  
Abstract : no abstract

Card: 1/1

-2-

RUMANIA/Microbiology - Antibiosis and Symbiosis.      F-2  
Antibiotics.

Abs Jour: Ref Zhur - Biol., No 18, 1958, 81428

Author : Cahane, D., Volcinski, L.

Inst : -

Title : A Study of Bacteriostatic Activity of Bacteria  
of the Bacillus Genus.

Orig Pub: An. stiant. Univ. Iasi, 1956, sec. 2, 2, No. 2,  
65-71

Abstract: Upon prolonged cultivation (up to 15-20 days)  
on a solid nutrient medium, 45 of 50 studied  
strains of representative bacillus genuses  
displayed an antagonistic activity toward  
grampositive as well as gramnegative bacteria.  
Substances inhibiting growth of grampositive  
bacteria sometimes appeared in the nutrient

Card 1/2



RUMANIA/Microbiology - Antibiosis and Symbiosis.  
Antibiotics.

F-2

Abs Jour: Ref Zhur - Biol, No 18, 1958, 81428

medium not simultaneously with substances  
inhibiting gramnegative bacteria. In the  
filtrates of culture liquids of the tested  
strains, compounds were found which inhibit  
only grampositive bacteria. -- V.A. Lyashenko

Card 2/2

12

RUMANIA / Organic Chemistry. Synthetic Organic  
Chemistry.

G

Abs Jour : Ref. Zhur.- Khimiya, No. 15, 1958, No. 50312

Author : Arventiev, B.; Strul, M.; Wexler, H.; Cahane, D.

Inst : -

Title : Preparation and Study of Some Aryl Thioureas -  
IV Oxy and methoxy- naphthyl Thioureas.

Orig Pub : Studii si cercetari Stunt. Acad. RPR Fil. Iasi.  
Chim., 1956, 7, #1, 24-30.

Abstract : Oxy-, methoxy and carboxymethoxy derivatives of  
-naphthyl thiourea (I) were synthesized. The  
toxicity of the prepared substances was studied.  
Heating the solution of 1-amino-2 naphthol-  
chlorohydrate (II) with  $\text{NH}_4\text{NCS}$  (III) in glacial  
 $\text{CH}_3\text{COOH}$  (IV) yielded 2-oxy-I (V). By analogy  
4-oxy-I (VI) was obtained from 1-amino-4-naphthol  
chlorohydrate (VII) and III. Methylation of V

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RUMANIA / Organic Chemistry. Synthetic Organic  
Chemistry.

G

Abs Jour : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50312

in order to obtain 2-methoxy-I (VIII) led to a formation of a previously synthesized 2-amino,  $\beta$ -naphthoxyazole (IX). The latter compound may be also prepared by interaction of V and  $\text{ClCH}_2\text{-COOH}$  in an alkaline medium and by heating of alcoholic solution of V with  $\text{HgO}$ . 4-methoxy chlorohydrate (X) or 2-methoxy-1-naphthylamine chlorohydrate when reacted with III or IV yielded, correspondingly, 4-methoxy-1 (XII) and VIII. Reaction between III, 1-amino-4 naphthoxy acetate (XIII) and IV yielded 1-thiouretidine-4 naphthoxy acetate (XIV), while reaction between  $\alpha$ -naphthylamine chlorohydrate (XV) and III at identical conditions led to I. Heating 4g

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10

RUMANIA / Organic Chemistry. Synthetic Organic  
Chemistry.

G

Abs Jour : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50312

of II with 2 g of III in 20 ml of IV for 4 hours led to V, 45% yield, m.p. 203-205° (from alcohol). By analogy from 1.68 g III and 3.9 g VII in 15 ml IV was obtained (VI) 45% yield, m.p. 216-217° (from IV). Reacting for 24 hours, 2.5 g IV with 2 g  $(\text{CH}_3)_2\text{SO}_4$  in a 3% NaOH solution led to (IX), 70% yield, m.p. 198-199° (from water). IX-chlorohydrate m.p. = 235°. IX may be also obtained by reacting 0.5 g of water solution of  $\text{ClCH}_2\text{COOH}$  with an alkaline solution of 1 g V, and by heating alcoholic solution of 0.5 g V with 0.5 g HgO. Solution of 4 g IX (obtained by reduction of 2-methoxy-1-nitronaphthalene with Zn-dust and HCl) and 2 g III in 20 ml IV was heated for 4 hours (100°C),

Card 3/4

RUMANIA / Organic Chemistry. Synthetic Organic  
Chemistry.

G

Abs Jour : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50312

a little water was added and upon cooling VIII was separated with a 56% yield, m.p. 214-215 (from alcohol). Reaction of 2 g 4-methoxy-1-naphthylamine (obtained by hydrolysis of 4-methoxy-1-acetyl amino naphthalene) with 0.84 g III in 25 ml IV (same conditions as above yielded XII, 53% yield, m.p. 222-223<sup>o</sup> (from IV). By analogy from 2.2 g XIII and 0.84 g III in 13 ml IV, XIV was synthesized, 43% yield, m.p. 189-190, while from 2 g III and 4 g XV in 20 ml IV, I was obtained, 75% yield, m.p. 195<sup>o</sup> (from Alc). Experiments with rats have shown that the most toxic derivative (XI) is 25 times less toxic than I, and that all compounds are much less bitter than I. Article III, see Ref. Zhur. Khim. 1956, 941. -- A. Marin

Card 4/4

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CAHANE, D.

9  
 ✓ Synthesis and study of several arylthiourea compounds.  
 V. Methyl- and halo- $\alpha$ -naphthylthioureas. B. Arventley,  
 M. Strul, H. Wexler, and D. Cahane (Chem. Ind., Brit.  
 Rom. Acad. R.P.R. Iasi, Romania. Acad. rep. populare  
 Romine, Studii cercetari chim. 5, 811-17(1957); cf. CA 53,  
 8083i.—In continuation of previous syntheses of new  
 thioureas in the  $\alpha$ -naphthylthiourea series, addnl.  $\alpha$ -  
 naphthylthioureas were synthesized, with methyl groups  
 and halogens as substituents, in order to study the toxicity  
 of these compds. 4- and 8-Chloro- $\alpha$ -naphthylthiourea and  
 5-bromo- $\alpha$ -naphthylthiourea were prepd. by heating (4  
 hrs. over a water bath) the resp. 4- and 8-chloro- $\alpha$ -naphthyl-  
 amine and 5-bromo- $\alpha$ -naphthylamine with NH<sub>2</sub>CNS in  
 glacial acetic acid. The 4-bromo- $\alpha$ -naphthylthiourea was  
 prepd. by hydrolysis (boiling 20 min. in 5% aq. NaOH)  
 of *N*-benzoyl-*N'*-(4-bromo- $\alpha$ -naphthyl)thiourea, which was  
 prepd. by heating (5 min. over a water bath) 1.2 g. NH<sub>2</sub>-  
 CNS in 6 cc. abs. acetone with 2.1 g. benzoyl chloride,  
 adding 3.3 g. 4-bromo- $\alpha$ -naphthylamine in 7 cc. abs. acetone,  
 and heating (15 min.). 2-Methyl- $\alpha$ -naphthylthiourea was  
 prepd. by heating the HCl salt of 2-methyl- $\alpha$ -naphthyl-  
 amine (prepd. by redn. with Fe and AcOH of 1-nitro-2-  
 methyl-naphthalene) with NH<sub>2</sub>CNS in glacial AcOH.  
 Since  $\alpha$ -naphthylthioureas could be prepd. by heating *N,N'*-  
 di- $\alpha$ -naphthylthioureas with ammonia under certain condi-  
 tions, the *N,N'*-diarylthioureas corresponding to the above  
 thioureas were prepd. *N,N'*-Bis(2-methyl- $\alpha$ -naphthyl)-  
 thiourea was prepd. by treating the HCl salt of 2-methyl-  
 $\alpha$ -naphthylamine with alc. KOH, filtering off the KCl,  
 adding CS<sub>2</sub>, and heating (8 hrs. over a water bath), and

6  
 2-TAT (RB) (NH)  
*N,N'*-bis(8-chloro- $\alpha$ -naphthyl)thiourea by treating 8-chloro-  
 $\alpha$ -naphthylamine in CS<sub>2</sub> with alc. KOH and heating (10  
 hrs. over a water bath). 2-Methyl- $\alpha$ -naphthylthiourea  
 was more toxic (towards white rats), while the chloro-  
 substituted compds. were as toxic and as bitter, the bromo-  
 substituted as toxic (the 4-Br more bitter, the 5-Br less  
 bitter than) as  $\alpha$ -naphthylthiourea itself. 12 references.  
 M. Lapidot

Toxicity study of arylthioureas for white rats. III. Hydroxy- and aminophenylthioureas. B. Arventiev, S. Fisel, I. Sechter, and D. Cabane. *Acad. rep. populare Romane, Filiala Iasi, Stiinta (Iasi)*, 4, No. 1-2, 233-43 (1958). The *m*-(I) and *p*-hydroxyphenylthiourea (II) and *o*-, *m*-, and *p*-aminophenylthiourea derivatives were prepd. and their toxicity to white rats studied. The last 2 deriva. were obtained either from the corresponding diarylthioureas by heating with NH<sub>3</sub> in a sealed tube in an aq. alc. medium or by the action of *m*- or *p*-aminophenol on NH<sub>4</sub>SCN, KSCN, or NaSCN in the presence of glacial AcOH and heat. I has an inferior toxicity to nonsubstituted phenylthiourea; II is somewhat more toxic, but the 2 taste less bitter than phenylthiourea. The bis(*m*-hydroxyphenyl)thiourea and the bis(*p*-hydroxyphenyl)thiourea, prepd. according to the Shebuev method (Russ. 51,571, C.A. 33, 6832<sup>a</sup>) have no toxicity in white rats. The aminophenylthioureas cannot be prepd. by heating the corresponding phenylenediamines with thiocyanates in glacial AcOH followed by acetylation of the NH<sub>2</sub> groups of phenylenediamines. By substitution of the NH<sub>2</sub> group in the ortho and para positions the toxicity was increased and the bitter taste decreased in the compd. whereas a substitution in the meta position diminished its toxicity. The *o*-, *m*-, and *p*-tolylthiourea and the *o*- and *p*-anisylthiourea were obtained by heating the corresponding amines with the thiocyanates in dild. AcOH. The prepn. of these thioureas could not be accomplished by applying glacial AcOH because of acetylation of the NH<sub>2</sub> group of the corresponding amine.

T. Z. Donesv

NASTASE, Gh., Prof.; SPERANTA, Gh., dr.; CARNIOL, M., dr.; LAZAR, M., dr.;  
CAHANE, G., dr.; MARCULESCU, D., dr.

Studies of some serum antihyaluronidases in skin cancer.  
Med. int., Bucur. 8 no.2:235-240 Apr-May 56.

1. Lucrare facuta in clinica dermato-sifiligrafica, Iasi.  
(HYALURONIDASE, antagonists  
in blood of skin cancer patients)  
(SKIN NEOPLASMS, blood in  
antihyaluronidases)



CAHANE, G.

NAASTASE, Gh.; SPERANJA, Gh.; CARNIOL, M.; LAZAR, M.; CAHANE, G.; MARCULESCU, D.

Investigations on certain seric anti-hyaluronidases during cancer of the skin. Rumanian M. Rev. 1 no.2:73-77 Apr-June 57.

(SKIN NEOPLASMS, blood in  
hyaluronidase antag.)

(HYALURONIDASE, in blood  
antag. in cancer of skin)

CAHANG.

TUDORAN, Gh.;NICULESCU, M.;CAHANG, G.

Anemias, thrombopenias and leukopenias of an immunological nature.  
Med. int., Bucur. 9 no.6:841-846 June 57.

1. Cercetari din Clinica I Medicala, Iasi.

(ANEMIA, immunol.

antibody detection & behavior, diag. & ther. significance)

(BLOOD PLATELETS

thrombopenia, immunol., diag. & ther.)

(LEUKOCYTES

leukopenia, immunol., diag. & ther.)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3e

A-4

Water content of blood, of muscular tissue, and of certain organs after the extirpation of suprarenal capsules in the rat. O. I. PARSON, M. CANARY, and V. MARIAN (Dokl. Akad. Sci. Roumania, 1957, 12, 23-25).—The water content of the blood in the muscular tissue and in certain organs of the rat from which the suprarenal capsules have been removed is greater than that in a normal rat.

A. I. VOHL.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

137 AND 138 ORDERS      139 AND 140 ORDERS

PROCESSING AND PROPERTIES INDEX

BC

Water content of various tissues of animals treated with powdered mammary gland. O. I. PANNOW, M. CARANI, and A. BAZOV (Bull. Acad. Sci. Roumania, 1960, 22, 165-168).—In guinea-pigs treated daily with mammary gland powder there is a very slight increase in the water content of the brain and of liver, whilst other organs suffer a diminution. F. O. HOWITT.

METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

COMMON ELEMENTS

139 AND 140 ORDERS

CA 114

AST AND THE COLLEES PROCESSES AND PROPERTIES INDEX

**Alopecia and decolorization of the hair in rats subjected to thyroid and thyroxine treatment.** M. Cahane. *Bull. soc. romaine neural. psychiat. psychol. Filippinol.* 16, 39-40(1935).—Administration of 3 mg. thyroid prepn. daily to each of 5 black rats (hybrids from white and black) for 10 days or more resulted in alopecia and a general change in the color of the hair to blonde and reddish. Injection of 14 cc. thyroxine prepn. to each of 3 hybrid black rats over 48 days caused partial bleaching of some areas of the hair. Marion Horn

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1st AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

10th AND 4TH ORDERS

CA

115

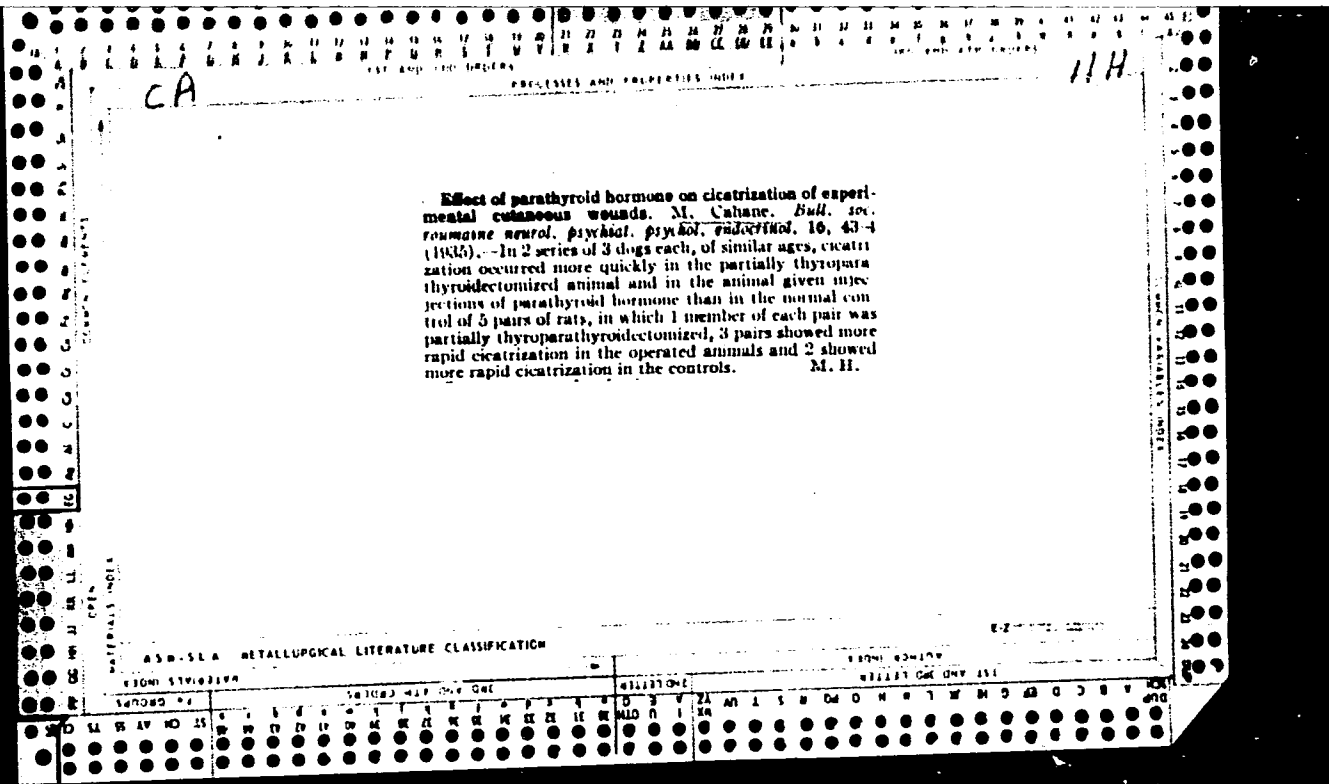
Conditioned reflexes and emotional glucosmia. M. Cabane. *Bull. soc. roumaine neurol. psychiat. psychol. Psychiatr.* 16, 41-2(1935).—An av. elevation of 0.20% in the blood sugar occurred in 3 cats for 5-10 min. after they were frightened by a dog. After the cats were frightened by a dog and a bell was rung simultaneously for 0-7 times, ringing of the bell alone caused an increase in blood sugar of 0.15-0.20% in 1 of the cats; the other 2 gave inconsistent results. Marius Hion

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1st AND 2ND ORDERS

10th AND 4TH ORDERS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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PROCESSES AND PROPERTIES INDEX

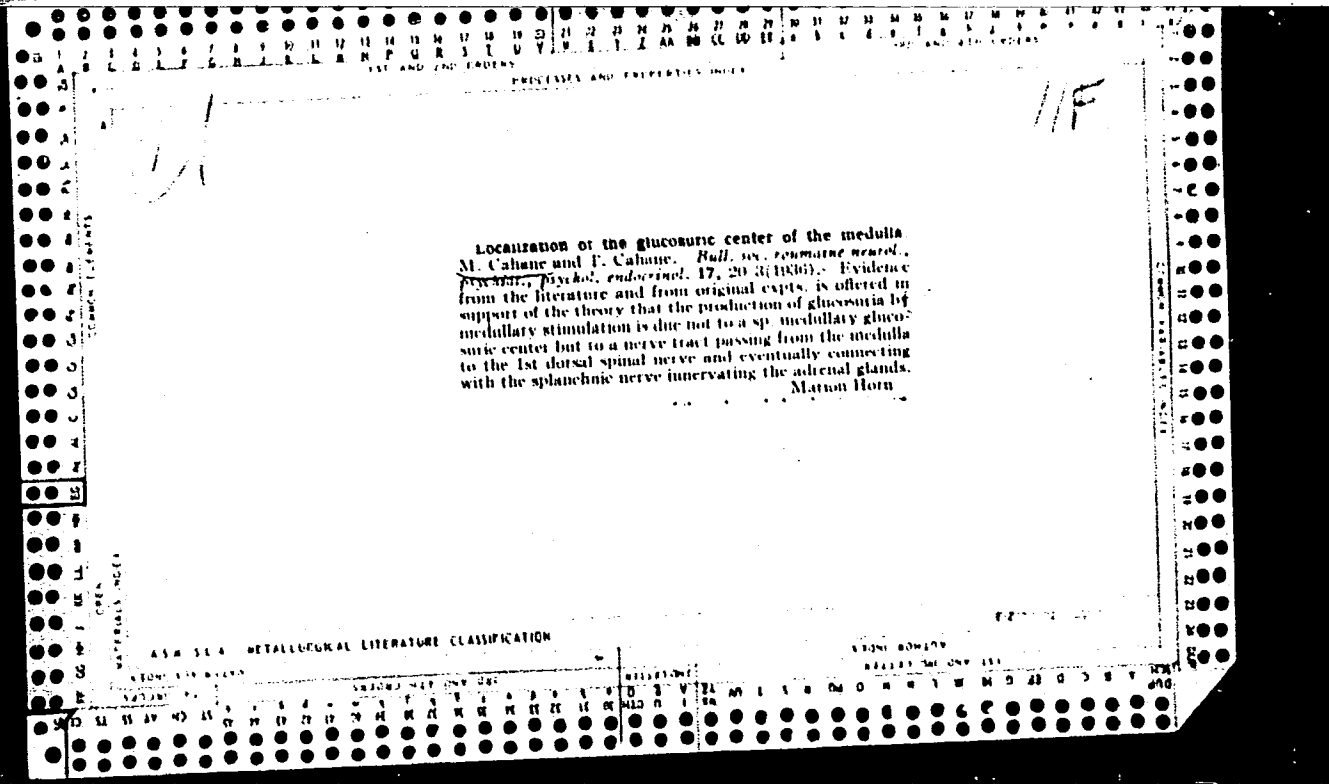
11F

... calcium, magnesium, sodium and potassium in  
 ... and white matter of the brain from the "illkiblo-  
 ... (biology-of-ages) point of view. M. Cahane.  
*Bull. soc. romaine neurol., psychol., psychol. endocrinol.*  
 17, 14-19(1930).—The Ca, Mg, Na and K contents per  
 g. of gray and white matter of the brain were greater in a  
 newborn infant (stillborn) than in a 64-year-old man. In  
 3 men aged 23-46 years (psychotics dying of pneumonia,  
 tuberculosis, etc.) the above values were generally inter-  
 mediate between those of the infant and those of the 64-  
 year-old man. In 4 young dogs the water contents of the  
 gray and white matters, resp., were 80.01 and 76.13 g. %,  
 as compared with 77.81 and 76.13 g. % for a 13-year-old  
 dog. The relative amts. of Ca, Mg, Na and K in the  
 brains of the young and old dogs were sometimes in agree-  
 ment and sometimes in disagreement with the results in  
 man. Marion Horn

METALLURGICAL LITERATURE CLASSIFICATION

E2





PERETIANU, J., Dr.; HEILPERN, J., dr.; CAHANE, M., dr.

Effect of salicylic acid on growth of white rats, on the coefficient of digestive utilization of casein and on regeneration of hepatic proteins. Rev. igiena microb. epidem., Bucur. Vol.3:47-59 July-Sept 55.

1. Sectia de igiena alimentatiei de igiena al R. P. R.
  - (GROWTH, eff. of drugs on salicylic acid, in rats.
  - (CASEIN, metab. eff. of salicylic acid, in rats.
  - (PROTEINS, determination in liver of rats, eff. of salicylic acid admin.
  - (SALICYLIC ACID, eff. on growth, casein metab. & regen. of hepatic proteins, in white rats.
  - (LIVER, metab. proteins, eff. of salicylic acid, in rats.

BOGDAN, R.C., conferentiar; PELECUDI, Chr.; CAIMACIUC, L.; ANTONESCU, Gr.

Studies on the speed in plane mechanisms, based on the mecano-electronic principles. Studii cerc mec apl 13 no.4:971-987 '62.

1. Membru al Comitetului de redactie, "Studii si cercetari de mecanica aplicata", si Conferentiar la Institutul de petrol, gaze si geologie, Bucuresti (for Bogdan).

CAIS, B.

A differential transformer in telecommunication technique.  
p. 77. TECHNICKA PRACA. (Slovenske nakladatelstvo technickej  
literatury) Bratislava. Vol. 8, no. 2, Feb. 1956.

Apparatus for the measurement of angles. Tr. from the  
German. p. 90.

SOURCE: East European Accessions List, (EEAL).  
Library of Congress. Vol. 6, no. 12,  
December 1956.

CAIS, B.

Safety measures on Soviet railroads. p.62.(Železnice. Praha. No. 3, Mar. 1957.)

SO: Monthly List of East European Accessions (EEAL) IC., Vol. 6, no. 7, July 1957. Uncl.

GAIS, B.

Noises in telephone connections and their causes.

P. 115 (Zeleznicni Technika) Vol. 5, No. 5, May. 1957, Czechoslovakia

SO:  
MONTHLY INDEX OF EASTERN EUROPEAN ACCESSIONS (EEAI) LC. - VOL. 7, NO. 1, Jan. 1958

CAIS, B.

Pulse technique in the service of locating breakdowns on telecommunication lines of Czechoslovak railroads. p. 113.

ZELEZNICNI DOPRAVA A TECHNIKA. (Ministerstvo dopravy)  
Praha, Czechoslovakia  
Vol. 7, no. 4, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11.  
Nov. 1959.  
Uncl.

CAIS, B.

Use of radio communications and directional relay communications in the railroad telecommunication network. p.227.

ZELEZNICNI DOPRAVA A TECHNIKA. (Ministerstvo dopravy)  
Praha, Czechoslovakia  
Vol. 7, no. 8, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11.  
Nov. 1959  
Uncl.



CAIS, Bohumil, inz.

Selectors and dispatching systems. Zel dop tech 9 no.9:266-270 '61.

(Railroads)

CAIS, Bohumil, inz.

Quality and trouble-free service of railway telecommunications.  
Zel dop tech 10 no.4:109-111,118-119 '62.

CAIS, Bohumil, inz.

Feed current sources of signalling equipment of the Czechoslovak  
Railroads. Zelez dop tech 10 no.12:363-365 '62.

CAIS, Bohumil, inz.

Broadcasting equipment of the Czechoslovak Railroads. Zel dop tech  
12 no.5:120-123 '64.

CAIS, Leszek

Studies on the composition of food of some species of owls.  
Biologia zesz nauk Poznan no.4:3-21 '63.

Material on the fauna of the mammals of the Rzeszow Voivodeship.  
Ibid.:22-40

1. Department and Institute of Systematic Zoology of the Adam  
Mickiewicz University, Poznan.

10.9220

21388  
Z/040/61/000/006/001/003  
D005/D102

AUTHOR: Cais, Oldřich, Engineer  
TITLE: Fatigue of transport aircraft support structure  
PERIODICAL: Letecký obzor, no. 6, 1961, 176-179

TEXT: The article continues with the problems of fatigue tests and fatigue life of aircraft which were discussed in a series of articles previously published in this periodical. It concentrates on the fatigue of aircraft structures with special attention given to fatigue properties of structural materials and the influence of varying stresses during operation on the fatigue of aircraft structures. Due to their high cost, complex equipment, and advanced development, eliminating early obsolescence, modern aircraft are designed for a much longer service life than previously. At present, the average design life of the individual transport types is as follows: (a) air taxi, 6,000 hours; (b) short-haul transport, 15,000 hours; (c) long-haul transport, 30,000 hours; and (d) jet transport, 25,000 hours. The fatigue life of aircraft structure is defined by the

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fatigue life of certain critical parts, i.e., parts whose failure would result in serious consequences, and which have a shorter fatigue life than the rest of the structure. A representative example of such a critical part are the joints of the lower flanges of the spar. Failures of critical parts nearly always originate in cut-outs, or in abrupt changes of the cross section, or in the bolt holes. They usually spread from the surface to the center of the cross section. High finish and corrosion protection of bolts, careful calibration of holes by broaching and use of pressed or conical bolts, tightened by a torque wrench, considerably increase the fatigue life of critical parts. Fatigue life of materials is greatly influenced by corrosion due to both atmospheric influence and friction. The former can be checked by improved surface protection, the latter by a more careful tightening of joints and/or by the use of suitable linings or pastes. Good results have been obtained with the "Molykot" paste ( $\text{MoS}_2$ ). Materials with the lowest notch sensitivity should be used for critical parts, since the speed of fissure spreading is to a great extent determined by notch sensi-

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Fatigue of transport...

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D005/D102

vity. Dural and Al-Zn alloy (US materials 2014 and 7075) have so far produced best results. Also of significance to the fatigue properties of the individual parts are the machining conditions (quality of tool edge, hardness of grinding wheel, machining speeds, etc.); observance of prescribed tolerances; surface finish; proper heat treatment and assembly operations. From among the varying stresses occurring during aircraft operation the greatest influence on aircraft-structure fatigue is exerted by gusts. The effects of gusts can be reduced by decreasing speed, by increasing the altitude, or by taking detours to avoid gust areas. Skilful pilots usually employ a combination of all three means. Although relatively not too numerous, the ground-air-ground cycles exert a great influence on the fatigue life of aircraft structures due to the large stress amplitudes involved. Only limited experience has so far been gained on the fatigue of aircraft structures due to varying stresses during taxiing. These are now being thoroughly investigated. Since no test stand can exactly duplicate the stresses to which aircraft are subjected during operation, designers of novel aircraft structures

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X

Fatigue of transport...

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should call the user's attention to critical points discovered in fatigue tests and suggest adequate inspection periods. As a precaution, they might also recommend more frequent replacement of critical parts than appears necessary from the results of fatigue tests. Finally, extreme care should be exercised by repair crews, since even tiny scratches made on the airframe surface during repairs, may gravely effect the fatigue life of the aircraft. There are 11 figures and 11 references: 3 Soviet-bloc and 8 non-Soviet-bloc. The four most recent references to English-language publications read as follows: A. M. Freudenthal, Fatigue in Aircraft Structures, New York, 1956; The Aeroplane, May 1958; Data Sheets-Fatigue, R. A. S., 1959; British civil airworthiness requirements, Revised, March, 1959.

Card 4/4

KLABOCH, L., inz.; DUFEK, Jaroslav, inz.; HAJEK, E., doc., inz.; REZNICEK, I., inz.; ROD, F., inz.; DRDA, J., inz.; MATOUSEK, B., inz.; KOUSAL, P., inz.; MANDA, V.; CAIS, O., inz.; NOVAK, S.; URBAN, S.; HANKE, M., inz.; VOKURKA, V., inz.; FOGEL, J., inz.; HROMIR, M., inz.; SOLIN, J., prof., inz.; SLEZAK, A., inz.; TITLBACH, Z., inz.; DREXLER, J., inz.; HORNA, O., inz.; KUPEC, J., inz.

Discussion on tensiometry. Zpravodaj VZLU no.2:37-46, 69-80 '62.

1. Vyzkumny a zkusebni letecky ustav (for Dufek, Reznicek, Manda, Cais, Drexler and Kupec). 2. Statni vyzkumny ustav tepelne techniky (for Klaboch, Rod, Drda, Matousek, Titlbach). 3. Ceske vysoke uceni technicke (for Hajek, Solin). 4. Ustav pro vyzkum motorovych vozidel (for Hanke, Vokurka, Fogl, Hromir). 5. Vyzkumny ustav matematickych stroju (for Horna). 6. Moravan, n.p., Otrokovice (for Kousal). 7. Mikrotechna, Holesovice (for Novak). 8. Zavody V.I.Lenina (for Urban). 9. Svermovy zavody, Vyzkumny ustav (for Slezak).

CAIS, S.

Eccentric pressure as observed in the new standards. p. 269. (Inzenyrske Stavby, Vol. 5, No. 5, May 1957, Praha, Czechoslovakia)

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

DIMITRIU, O., ing.; PISLARASU, C., ing.-sef; RILA, C.; CAISAN, V., ing.

Appeal to the designing institutes. Constr Buc 16 no.741:2  
21 Mr'64.

1. Institutul "Proiect-Bucuresti" (for Pislarasu).
2. Director, in Ministerul Economiei Forestiere (for Caisan).

L 13265-63

EWT(d)/FCC(w)/BDS

AFYTC

IJF(C)

S/044/63/000/003/006/047

AUTHOR:

Gaius, Iacob

TITLE:

An approach toward the fundamental biharmonic problem 16

PERIODICAL:

Referativnyy zhurnal, Matematika, No. 3, 1963, 33, Abstract  
3B148 (Commun. Acad. RPR, v. 12, no. 5, 1962, 509-511; Rumanian,  
summaries in Russian and French)

TEXT:

The author considers the boundary value problem for the biharmonic function  $\psi(x, y)$  in the circle  $D(|z| < R)$  with conditions on  $C(|z| = R)$ ,  $\psi = F(x, y)$ ,  $\partial\psi/\partial n = G(x, y)$  (the Lauricella problem). It is assumed that  $F(x, y)$  and  $G(x, y)$  are rational functions of the  $x$  and  $y$ -coordinates without singularities on  $C$ . The solution is constructed in the form

$$\psi(x, y) = A(x, y) + (R - r)B(x, y),$$

where  $A(x, y)$  and  $B(x, y)$  are the real parts of the analytic functions  $\mathcal{A}(z)$  and  $\mathcal{B}(z)$ . The author points out the law of construction for these last functions by the given functions  $F(x, y)$  and  $G(x, y)$ .

[Abstracter's note: Complete translation.]

Card 1/1

~~Jacob, Caius~~

CAIUS, J.

2000

Jacob, Caius. On a necessary condition for the transformation into satellites of the planet of bodies projected from a planet. Gaz. Mat., București 54, 192-201 (1949).  
(Romanian)

Source: Mathematical Reviews, *46* Vol 10 No. 8

C. IUS JACOB

Jacob, C. Ius. Recherches sur la théorie des mouvements coniques supersoniques. Acad. Repub. Pop. Roum. Bul. Sti. Sect. Sti. Mat. Fiz. 6, 603-622 (1954). (Romanian. Russian and French summaries). J - P/W

The author has rederived results on the linearized conical flow about a thin delta wing with subsonic leading edges obtained by P. Germain [O.N.E.R.A. Publ. no. 34 (1949); MR 12, 452]. After the usual transformation

$$\zeta = \xi + i\eta = \beta(x + iy) / \{1 + [1 - \beta^2(x^2 + y^2)]^{1/2}\}$$

the velocity component normal to the wing  $v(\xi, \eta) = \partial V(\zeta) / \partial \bar{\zeta}$  for some analytic function  $V(\zeta)$ . For

$$\xi_1 < \xi < \xi_2, \quad v(\xi, \pm 0) = \pm m(\xi) \mp n(\xi);$$

here  $m(\xi)$  and  $n(\xi)$  are determined by the shape of the wing:  $v=0$  on  $|\zeta|=1$ ;  $v$  behaves like  $|\zeta - \xi_k|^{-1/2}$  near the leading edges  $\zeta = \xi_k, k=1, 2$ ; and  $dV/d\zeta = 0$  for  $\zeta = \pm 1$ . Let  $V(\zeta) = \sum_{j=1}^n (v_j + i w_j) \zeta^j = \sum_{j=1}^n V_j(\zeta)$  with the following boundary conditions: On  $\xi_1 < \xi < \xi_2$ ,

$$v_1(\xi, \pm 0) = \pm m(\xi); \quad v_2(\xi, \pm 0) = n(\xi) - \lambda$$

JACOBI, CAIUS

for an appropriately chosen real constant  $\lambda$ ;  $v_1(\xi, \pm 0) = \lambda$ .  
 On  $-1 < \xi < \xi_1$  and  $\xi_2 < \xi < 1$ ,  $v_1(\xi, 0) = v_2'(\xi, 0) = 0$ . On  $|\zeta| = 1$   
 all  $v_j = 0$ . Then all of  $V_j$  can be expressed as definite integrals.  
 The perturbation velocity component  $w = \Re W(\zeta)$  parallel  
 to the undisturbed flow, required for pressure calculations,  
 can be obtained from  $dW/d\zeta = -2i\beta^{-1}\zeta(\zeta^2 - 1)^{-1}dV/d\zeta$ .  
 Alternatively, the part due to angle of attack,

$\frac{2}{2}$

$$w_1 + iw_2' = \Re W_1(\zeta)$$

defined by  $dW_1/d\zeta = -2i\beta^{-1}\zeta(\zeta^2 - 1)^{-1}(dV_1/d\xi + dV_2/d\zeta)$  can  
 be obtained as the solution of the mixed boundary-value  
 problem

$$w_1'(\xi, 0) = -2i\beta^{-1} \int_0^{\xi_1} \xi(\xi^2 - 1)^{-1} (dn/d\xi) d\xi + \text{const.},$$

for  $\xi_1 < \xi < \xi_2$ , and  $w_2 = 0$  on  $|\zeta| = 1$ , of a type discussed by  
 H. Villat [Acta Math. 40, 101-178 (1915)]. The author  
 also applies a suggestion of Germain's to compute the flow  
 over a thin conical fuselage and flat plate delta wing com-  
 bination that is symmetrical with respect to the plane of  
 the wing. Cases of fuselages of circular and elliptical cross  
 sections are worked out in detail.

J. H. Giese.

*JHG*



PHASE I BOOK EXPLOITATION

RUM/5610

Caius, Jacob, Corresponding Member, Academy of Sciences RFR., Professor, Faculty of Mathematical and Physical Sciences of the University "C. I. Parhon" in Bucharest.

Introduction mathématique à la mécanique des fluides (Mathematical Introduction to Fluid Mechanics) Bucharest, Ed. de l'Académie de la République Populaire Roumaine, 1959. 1286 p. Errata slip inserted. No. of copies printed not given.

Preface by: Henri Villat, Member, Academy of Sciences of the French Institute.

**PURPOSE:** This book is intended for students of institutions of higher education and for engineers and scientists working in the field of fluid dynamics.

**COVERAGE:** This is a French translation of a Rumanian textbook. It deals with boundary problems concerning or connected with harmonic functions, problems arising in the study of two-dimensional motions, natural development of theories of compressible and incompressible fluids in transsonic and supersonic flow. This edition is supplemented by new considerations of mixed

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Mathematical Introduction to Fluid Mechanics

RUM/5610

problems and by a critical review of the methods introduced by N. I. Muskhelichvili for their study. Important developments in the field of incompressible fluids are presented on Dirichlet's problem with given singularity and on flow at a constant vortex. New research work on jet wings by Malavard, Kadosh, etc., based on the Zhukovskiy's theory is covered along with approximation methods in the study of transsonic flow (Tricomi's equation). The author thanks the following members of the Chair of Fluid Mechanics of the Bucharest University: S. I. Gheorghitza, Simona Popp, L. Todor, I. Popescu, I. Filimon, L. Dragos, C. Ionescu-Bujor, and D. Draghici. References are found in footnotes.

TABLE OF CONTENTS:

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PART I. SOME PROBLEMS OF LIMITS

Ch. I. Two-Dimensional Problems of Dirichlet and Neumann for the Circle and the Circular Cone	11
1. Dirichlet's problem for the circle	14

Card 2/10

CAIVAS, K.

Cattle stables with regard to the new technology of meat and milk production.

P. 23. (ROLNICKE HLASY) (Praha, Czechoslovakia) Vol. 11, No. 12, Jan. 1958

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

ROMANIA

M. CAJAL, D. RATH, H.M. ALBANDARU, B. CLECIANU, C. SUDAN,  
G. POPESCU-DANESCU, M. SIAGROSTE and G. SOROCOC, Obstetric Home  
(Maternitatea "Coliari" and Institute of Inframicrobiology (Institutul  
de Inframicrobiologie), Bucharest.

"Role of Rickettsia and Pararickettsia in Pathology of Pregnancy. Part  
I. Relationship Between Maternal Infections and Stillbirths."

Bucharest, Studii de Cercetari de Inframicrobiologie, Vol 13, No 6, 1962;  
pp 657-665.

Abstract [English summary modified]: Study related to research started  
by Giroud et al. of the Paris Pasteur Institute, correlating abortion  
to rickettsiosis: serological microagglutination tests to 5 species of  
sera of 14 mothers with abortions or stillbirths or births of non-viable  
infants and those of 14 mothers with healthy normal infants. Eleven of  
the first group were positive compared with 5 of second group. From one  
placenta and 1 stillborn, rickettsia-like organisms were isolated.  
Discussion of Toxoplasma, ornithosis group, cardiovascular trophism.  
Title; 10 French, 1 German, 30 Romanian references.

1/1

SURDAN, C.; CAJAL, M.; ANAGNOSTE, B.; ATHANASIU, Pierrette;  
POPESCU-DANESCU, G.; SORODOC, G.

Research on the role of rickettsias and pararickettsias in  
pregnancy pathology. Rev. sci. med. 8 no. 1/2:15-18 '63.

(PREGNANCY COMPLICATIONS) (RICKETTSIAL DISEASES) (ABORTION)  
(ABNORMALITIES)

CAJAL, N.

IVAN, I.; CAJAL, N.; SPINU, I.

Epidemiology and prevention of viral epidemic hepatitis. Stud.  
cercet.inframicrobiol., Bucur. 5 no.1-2:75-85 Jan-June 54.  
(HEPATITIS, INFECTIOUS,  
epidemiol. & prev. in Rumania)

CAJAL, N.; MATEESCU, S.

Rapid diagnosis of rabies with the aid of the phase-contrast microscope. Stud. cercet. inframicrobiol., Bucur. 6 no.1-2: 35-38 Jan-June 55.

(RABIES, diagnosis  
phase-contrast microscopy, method)  
(MICROSCOPY, PHASE  
in diag. of rabies, method)

SCHWARTZ, J.,; MOSCOVICI, O.,; ADERCA, I.,; DANIELESCU, G.,;  
DUMITRESCU, S.,; BOERU, V.,; CAJAL, N.,; MIHAILEANU, I.

Study of the nonspecific factors which intervene in hemagglutination reactions in epidemic hepatitis. Stud. cercet. inframicrobiol., Bucur. 6 no.1-2:39-50 Jan-June 55.

- (HEPATITIS, INFECTIOUS, diagnosis  
serodiag., hemagglut. reaction, eff. of storage &  
ultraviolet light on attenuation of virus)
- (HEMAGGLUTINATION  
test in infect. hepatitis, eff. of storage & ultra-  
violet light on virus attenuation)
- (ULTRAVIOLET RAYS, eff.  
on hemagglut. reaction in epidemic hepatitis)



Cajal, N.

NICOLAU, St.S., academician; CAJAL, N.

Explanation of the plurality of forms of inframicrobial epidemic hepatitis in the light of the spontaneous variability of the viruses. Stud. cercet. inframicrobiol., Bucur. 6 no.3-4:325-340 July-Dec. 1955.

(HEPATITIS, INFECTIOUS

viral, plurality of forms caused by variability of virus, eff. of antibiotics)

(ANTIBIOTICS, eff.

on virus of infectious hepatitis, relation to plurality of forms of dis.)

SCHWARTZ, J.; MOSCOVICI, O.; CAJAL, N.; SAMUEL, J.; UMIRESCU, ;  
ADERCA, I.

Changes in hemagglutinating properties in mortal cases of epidemic hepatitis during the period November 1954-April 1955. Stud.cercet. inframicrobiol., Bucur. 6 no. 3-4:413-418 July-Dec. 1955.

(HEPATITIS, EPIDEMIC, virus

hemagglutinating properties, changes in mortal cases of viral hepatitis during period November 1954-April 1955)

(HEMAGGLUTINATION

inhib. properties of viral hepatitis virus, changes in mortal cases during period November 1954-April 1955)

CAJAL, N.; CEPLEANU, M.

The effect of chicken embryonic fluids on the influenza virus.  
Stud. cercet. inframicrobiol., Bucur. 6 no.3-4:419-428 July-Dec 1955.

(INFLUENZA, experimental

eff. of chick embryo allantoic, amniotic & vitelline fluids  
used as diluents on pathogenicity of influenza virus for mice)

(ALLANTOIS

chick embryo allantoic fluid, eff. on influenza virus  
pathogenicity for mice)

(AMNIOTIC FLUID

chick embryo amniotic fluid, eff. on influenza virus patho-  
genicity for mice)

(VITELLINE FLUID

chick embryo vitelline fluid, eff. on influenza virus  
pathogenicity for mice)

EXCERPTA MEDICA Sec.17 Vol.4/2 Public Health, etc. Feb 58

CAJAL, N.

430. STUDIES ON NEUTRALIZING ANTIBODIES FOR POLIOMYELITIS VIRUS II (LANSING) IN THE SERA OF INHABITANTS OF BUCHAREST. Cercetări asupra anticorpilor seroneutralizanti față de virusul poliomieltic II (Lansing) la locuitori din București. Cajal N. and Lissievici-Opreșcu E1. STUD. CERC. INFRAMICROBIOL. MICROBIOL. PARAZITOL. 1958, 7/1-2 (57-63) Graphs 1

108 inhabitants of Bucharest were examined. Antibodies were found in very high proportions in newborns, disappeared between 6 and 12 months, and then increased, reaching a maximum in persons aged 20-30 yr., and diminished again. The limited number of experiments does not permit the establishment of the origin of these antibodies, but a close correlation was observed between their presence and the susceptibility to poliomyelitis, the morbidity in each age group being proportional to the percentage of negative results.

(L, 17, 4)

CAJAL, N.

U-1

RUMANIA/General Problems of Pathology. Immunity

Abs Jour : Ref Zhur Biol., No 5, 1958, 22823

Author : Cajal, N., Danescu - Popescu, G.

Inst :

Title : Antirabies Immunization of Rabbits Accompanied by Altered Central Nervous System Reactivity.

Orig Pub : Studii si cercetari inframicrobiol., microbiol. si parazitol. Acad. RFR, 1956, 7, No 3-4 311-320

Abstract : Immunization of rabbits with the Fermi vaccine simultaneous with the injection of benzedrine (2 mg/kg intramuscularly) increased specific resistance, but this decreased when Medinal (0.15 g/kg intraperitoneally) was administered. These data, according to the authors, confirm the hypothesis that antirabies vaccination is accompanied by a "mild" disease leading to immunity.

Card 1/1

GAJAL, N.; BABA, C.

Effect of vitamin C in experimental herpetic neuroinfection. Stud.  
cercet. inframicrobiol., Bucur. 8 no.1:23-28 1957.

(HERPES, experimental  
eff. of large & small doses of vitamin C)

(VITAMIN C, effects  
on exper. herpes, eff. of large & small doses)

CAJAL, N.: OPRESCU, El.: POPESCU, G.

Studies of neutralizing antibodies against poliomyelitis, type II.  
Stud. cercet. inframicrobiol., Bucur. 8 no.2:201-206 1957.

1. Comunicare prezentata la Institutul de inframicrobiologie al  
Academiei R.P.R. in sedinta din 3 septembrie 1956.

(POLIOMYELITIS, immunology

neutralizing antibodies against type II, Lansing virus  
in inhabitants of Bucharest)

CAJAL, N.; TUDOR, V.; BABA, C. LITMAN, S.; BOERU, V.

Study of the dynamics of serum aldolase activity in patients of epidemic hepatitis. Stud. cercet. inframicrobiol., Bucur. 8 no.3:335-340 1957.

1. Comunicare prezentata in sedinta Institutului de inframicrobiologie al Academiei R.P.R., din 28 aprilie 1957.

(HEPATITIS, INFECTIOUS, blood in  
aldolase, diag. & progn. value of determ.)

(DESMOLASES, in blood  
aldolase, in infect. hepatitis)



RUMANIA/Pharmacology - Toxicology - Tranquilizers.

v

Abs Jour : Ref Zhur Biol., No 4, 1959, 18536

Author : Cajal, N., Manouliu, N., Draganescu, N.

Inst : -

Title : The Course of Experimental Grippe in Mice, Treated with Largactyl.

Orig Pub : Studii si cercetari inframicrobiol., microbiol. si parazitol., 1957, 8, No 4, 503-506

Abstract : Largactyl, introduced to mice with experimental grippe, prolongs the incubation period of the disease, but only insignificantly reduces the death rate of the animals.  
-- From the author's resume

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EXCERPTA MEDICA Sec. 6 Vol 13/12 Internal med. Dec 59

6951. CLINICALLY INAPPARENT FORMS OF INFECTIOUS HEPATITIS DETECTED BY THE SERUM ALDOLASE TEST - Depistarea formelor inaparente clinic de hepatită epidemică cu ajutorul testului aldolazei serice - Cajal N., Baba C., Tudor V., Litman S. and Boeru V. - COM. ACAD. R. P. R. 1958, 8/9 (967-972) Graphs 2 Tables 1

After a routine and repeated study of all subjects who had been in contact with patients of 2 closed communities (comprising 184 subjects) suffering from infectious hepatitis, it was established that in addition to permitting a certain and extremely early diagnosis, the serum aldolase test makes it possible to detect abortive and atypical forms of infectious hepatitis as well as forms that are inapparent. The hypothesis is advanced that the increased serum aldolase value and the virus excretion correspond.

(L, 6)

~~6952. EPIDEMIOLOGICAL VALUE OF THE ALDOLASE TEST IN INFECTIOUS~~

EXCERPTA MEDICA Sec 7 Vol 13/10 Pediatrics Oct 59

2709. DATA OBTAINED WITH THE ALDOLASE REACTION IN INFECTIOUS HEPATITIS - Date obținute cu ajutorul reacției aldolazei în hepatita epidemică - Cajal N., Boeru V., Baba C., Leonescu M., Tudor V. and Litman S. - STUD. CERCET. INFRAMICROBIOL. 1958, 9/1 (9-14) Graphs 3

Previous results are confirmed. These results indicate increased values for the activity of this enzyme as compared with healthy controls, or with patients suffering from other diseases. Study of the course of aldolase activity showed that a positive reaction is obtained early, and that the highest values occur in the first week of the disease; after this they begin to fall, to return to normal limits usually during convalescence. In view of the evident parallelism between the clinical gravity and the degree of enzymatic activity, the latter presents, in addition to its diagnostic value, the advantage of permitting a prognosis. (L, 6, 7)

CAJAL, N.; MATEESCU, S.; COPELOVICI, Y.

Susceptibility of adult mice to the pathogenic action of coxsackie virus following ionizing irradiation ( $\alpha$  and  $\beta$ ). Acta virol. Engl. Ed., Praha 3(Supplem.):107-112 1959.

1. Institute of Inframicrobiology, Academy of the Rumanian People's Republic, Bucharest.  
(COXSACKIE VIRUS, infect.) (RADIATION EFFECTS, experimental)

NICOLAU, St. S., academician; BIBERI-MOROIANU, S.; CAJAL, N.

Certain statistico-epidemiological data on the evolution of  
inframicrobial epidemic hepatitis in Rumania. Stud. cercet.  
inframicrobiol., Bucur. 10 no. 4: 401-416 '59.  
(HEPATITIS, INFECTIOUS, statistics)

CAJAL, N.; NASTAC, E.

Evolution of the Guerin T8 epithelioma in rats immunized against vaccinia. Stud. cercet. inframicrobiol., Bucur. 10 no.4:417-424 '59.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R., in sedinta din 22 iunie 1959.

(NEOPLASMS, EPITHELIAL, experimental)

(VACCINIA, virology)

(CARCINOMA, EPIDERMOID, experimental)

CAJAL, N.; DANESCU-POPESCU, G.

Research on immunity against rabies in cortisone-treated rabbits vaccinated with the "Flury" strain. Stud. cercet. inframicrobiol., Bucur. 10 no.4:447-453 '59.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R., in sedinta din 16 martie 1959.

(RABIES, immunology)

(CORTISONE, pharmacology)

CAJAL, N., assist. prof.; ADERCA, I.; IANCONESCU, M.; OPRESCU, E.; DANIELESCU, G.;  
with technical assistance of BIRCA, A.

The incidence of poliomyelitis antibodies in children in the R.P.R.  
Rumanian M Rev. no.2:12-14 Ap-Je '60.  
(POLIOMYELITIS immunology)



CAJAL, N.; IANCONESCU, M.; ADERGA, I.; DANIELESCU, G.; BIRCA, A.

Study of the incidence of antipoliomyelitis antibodies of types I, II and III in unvaccinated persons in the rural areas of the R.P.R. Stud. cercet. inframicrobiol., Bucur. 11 no. 1: 21-30 '60.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R. in Sesiunea stiintifica festiva din 17-18 august 1959.

(POLIOMYELITIS, immunology)

CONSTANTINESCU, N.; CAJAL, N.; BIRZU, N.; CEPLEANU, M.; ZAVATE, O.

Experimental rabies infection in the Syrian hamster. Stud.  
cercet. inframicrobiol., Bucur. 11 no. 1: 61-72 '60.

1. Comunicare prezentata la Institutul de Inframicrobiologie al  
Academiei R.P.R. in sedinta din 16 septembrie 1959.  
(RABIES experimental)

CAJAL, N.; HUNG, T.; IONESCU, Val.; MARINESCU, G.; MATEESCU, S.

Electrocardiographic changes in rabbits in experimental herpes.  
Stud. cercet. inframicrobiol., Bucur. 11 no.2:219-227 '60.  
(HERPES exper.)  
(ELECTROCARDIOGRAPHY)

CAJAL, N.; IANCONESCU, M.; ADERCA, I.; OPRESCU, El.; DANIELESCU, G.;  
BIRCA, A.

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(HEPATITIS, INFECTIOUS blood) (ALDOLASE blood)  
(MUSCLES chemistry) (LIVER chemistry)

NICOLAU, St. S., acad.; CAJAL, N.

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(ACADEMY OF THE RUMANIAN PEOPLE'S REPUBLIC)  
--(HEPATITIS, INFECTIOUS)

NICOLAU, St. S., acad.; CONSTANTINESCU, N.; CAJAL, N.; BIRZU, N.; ZAVATE, O.;  
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Variability of the fixed rabic virus. Comparative pathogenic and immunogenic activity of the Pasteur and Babes strains, respectively. Studii cerc inframicrobiol Special issue-supplement to 12:145-155 '61.

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(VIRUSES) (HYDROPHOBIA) (IMMUNITY)

BERLOGEA, I.; STRATI, I.; SCHOENFELD, S.; CAJAL, N.; POPESCU, G.

Rabic infections and antirabic immunity in animals exposed to radiation. Studii cerc inframicrobiol Special issue-supplement to 12: 195-201 '61.

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(HYDROPHOBIA) (IMMUNITY) (RADIATION)



CEPLEANU, M.; CAJAL, N.

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(SKIN) (CHORIOALLANTOIS)

ATHANASIU, Pierette; CAJAL, N.; IALOMITEANU, M.; ANDREESCU, M.; SFERDIAN, I.

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1. Institutul de inframicrobiologie al Academiei R.P.R. 2. Membru al Comitetului de redactie si redactor responsabil adjunct, "Studii si cercetari de inframicrobiologie" (for Calaj).

(HEPATITIS, INFECTIOUS)      (ALDOLASE)

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(HEPATITIS, INFECTIOUS)  
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(IODINE radioactive)



CACAI, H.

SURNAME, Given Names

(1)

Country: Rumania

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(HEPATITIS, INFECTIOUS experimental) (PHOSPHORUS radioactive)  
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CAJAL, N.; DUMITRESCU, S.; CEPLEANU, M.; IONESCU, N.I.

Etiological investigations of human cutaneous reticulosarcoma. II.  
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(SKIN NEOPLASMS experimental) (MICROSCOPY, ELECTRON)

(SARCOMA, RETICULUM CELL experimental)

(FETAL MEMBRANES)

ADERCA, I.; CAJAL, N.; POPESCU, G.; IANCONESCU, M.; DANIELESCU, G.

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(HEPATITIS, INFECTIOUS virology)

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(HEPATITIS, INFECTIOUS experimental) (LIVER pathology)

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(HODGKIN'S DISEASE virology)

NICOLAU, St.S., academician; PETRESCU, Al.; ATHANASIU, Pierrette; SURDAN, C.;  
CAJAL, N.; SARATEANU, D.; in colaborare cu VELCIU, V.

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(PEPTIC ULCER)

(RICKETTSIAL DISEASES)

(RICKETTSIA PROWAZEKII)



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(HODGKIN'S DISEASE)

(TUMOR VIRUSES)

ROMANIA

N. GANAL, G. BARSU and G. MITROIU, Institute of Inframicrobiology  
(Institutul de Inframicrobiologie) and Institute of Medicine and  
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"Incidence of Karaganda AB IV Virus Neutralizing Antibodies in the  
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Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 13, No 6, 1962;  
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Abstract [English summary modified]: Sera of 183 persons were tested for  
neutralizing antibodies to the virus, first isolated in Karaganda in  
USSR from fatal cases of clinical poliomyelitis: 73 sera were positive,  
frequency increasing with age (less than 20% positive at ages below 2,  
over 60% positive in persons older than 6 years) Of the Karaganda  
sera, 9 had no polio antibodies to any of the 4 strains, and 18 sera  
positive to 3 polio strains had no anti-Karaganda antibodies, which  
could suggest that this is an independent group of enteroviruses. Table,  
2 graphs, no references.

1/1

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(HEPATITIS, INFECTIOUS)

(HEPATITIS VIRUSES)

(VIRUS CULTIVATION)

(TISSUE CULTURE)

CAJAL, N.; SCHACHTER, A.; CEPLEANU, M.; SORODOC, Y.; DEMETRESCU, R.;  
~~LOTREANU, V.~~

Adaptation to the white mouse of an inframicrobe isolated from  
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(HODGKIN'S DISEASE)      (TUMOR VIRUSES)