

LOJDA, Ladislav

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: Doctor of Veterinary Medicine

Affiliation: Brno

Source: Prague, Veterinarstvi, Vol XI, No 7, 1961, pages 256-261.

Data: "Some Notes on the Prevention and Inhibition of Sterility in Cattle in the South-Moravian Kraj."

GPO 981643

VEZNIK, Zdenek, MVDr. CSc.; LOJDA, Ladislav, MVDr.; NAVRAIL, Stanislav,
MVDr.

Evaluation of some physicochemical criteria of the cervical mucus
in breeding cows. Veter medicina 9 no.5:321-328 0 '64.

1. Department of Physiology and Pathology of Domestic Animal
Breeding of the Research Institute of Veterinary Medicine,
Brno-Medlanky. Head of the Department : [MVDr. CSc.] Zdenek
Veznik. Submitted February 28, 1964.

CZECHOSLOVAKIA/ Human and Animal Morphology - Blood and
Organs of Blood Production

2-4

Abs Jour : Referat Zhur - Biologii, No 16, 1957, 70350

Author : Lojda, Z., Lemez, L.

Title : Embryonic Blood of Chickens, Morpho-Cytochemical Study
of Chicken Embryo Thrombocytes.

Orig Pub : Ceskosl. morfol. 1955, 3, No 4, 317-325

Abstract : Morphology and histochemistry of thromboblats and
thrombocytes of peripheral blood is described in chick
embryos after 1-13 days of incubation, in chicks first
day after hatching, and in the hen. It was established
that the thrombocytes appear in the embryo's blood 2-3
days of incubation. In the cytoplasm of thromboblats
and thrombocytes small black granules can be seen in the
phase-microscope. There are none in erythrocytes. In
the fixed and well stained preparations of thrombocytes
there is a well difined compactly structured nucleus

Card 1/2

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CZECHOSLOVAKIA/ Human and Animal Morphology - Blood and
Organs of Blood Production

2-4

Abs Jour : Referat Zhur - Biologii, No 16, 1957, 70350

and cytoplasm, sometimes containing azurophile granules.
In the protoplasm of the thrombocytes are found muco-
polysaccharides and mucoproteins and small drops of fat.
In erythrocytes reactions for these substances are nega-
tive. Thromboblats and thrombocytes do not contain
hemoglobin. The authors refute the opinion, that chicken
thrombocytes are degenerated erythrocytes.

Card 2/2

- 71 -

SOBEK, Vojtech, Dr.; LOJDA, Zdenek; LUKES, Rudolf; JELINEK, Jiri

Pharmacology of aureomykoin. Cas. lek. cesk. 94 no.51:1396-1404 16 Dec 55.

1. Z katedry farmakologie a pokusne pathologie fakulty detskeho lekarstvi KU v Praze (predn. doc. Dr. H. Raskova) z embryologickeho ustavu lekarske fakulty KU v Praze (predn. prof. Dr. Z. Frankenberger) z Ustavu pro epidemiologii a mikrobiologii (predn. prof. Dr. K. Raska).

(CHLORTETRACYCLINE,
pharmacol. of Czech. prod.)

ology, Fac. of Med., Clinical Univ. Hospital, Gastroenterology
Stratigraph of the growing center
by Peter A. ...

FODOR, J.; LOJDA, Z.

On the relationship of heparinocytes to the transport of fats.
Physiol. bohém. 5 no.3:275-282 1956.

1. Institute of Cardiovascular Diseases, Prague. Institute of
Embryology of the Medical Faculty, Charles University, Prague.
(HEPARIN,
heparinocytes in fat transport in rats)
(FATS, metabolism,
transport by heparinocytes in rats)

FODOR, J.; LOJDA, Z.

Role of heparinocyte in transport of lipids. Cesk. fysiол. 5 no.3:
288-294 1956.

1. Ustav pro choroby obehu krevniho, Praha, Embryologicky ustav
lekarske fakulty, Praha.

(HEPARIN,

liberation from stained heparinocytes in rat mesentery,
eff. of fats (Cz))

(MAST CELLS,

eff. of fats on liberation of heparin from heparinocytes
stained in rat mesentery (Cz))

(FATS, effects,

on heparin liberation from heparinocyte stained in rat
mesentery (Cz))

(LIPIDS, metabolism,

regulation, role of heparin liberation from heparinocyte (Cz))

LOJDA, ZDENEK.

SCIENCE

LOJDA, ZDENEK. Azokopulacni reakce v histochemicken prukazu enzymu.
Praha, Statni zdravotnicke nakl., 1958 116 p. (Babakova sbirka, sv. 7)

DNLM Not in DLC

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5,
May 1959, Unclass.

CZECHOSLOVAKIA / Human and Animal Morphology (Normal and Pathological). Digestive System. S

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 12294

Author : Lojda, Z.; Fodor, J.

Inst : =

Title : The Histochemical Investigation of Mast Cells of a Rat's Mesentery.

Orig Pub : Ceskosl. morfol., 1958, 6, No. 1, 81-85

Abstract : In addition to a review of the basic views of the structure and function of mast cells, the results of a histochemical study of them are cited and deliberations regarding their significance are expressed.

Card 1/1

CZECHOSLOVAKIA / Human and Animal Morphology (Normal
and Pathological). Methods and
Technique of Investigation.

S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16866

Author : Lojda, Zdenek

Inst : Not given

Title : On the Quantitative Determination of Alkali
Phosphatase and Nonspecific Esterase in
Histological Sections

Orig Pub : Ceskosl. morfol., 1958, 6, No 1, 98-102

Abstract : A survey of methods of quantitative
determination of alkali phosphatase in
sections. A description of a method
developed by the author for its determina-
tion, as well as for that of nonspecific
esterase. The results of application of
this method to some tissues are cited.

Card 1/1

5

ZEMPLENVI, T.; LOJDA, Z.; GRAFNETTER, D.

Species variability in lipolytic and esterolytic properties of the aorta.
Cesk. fysiол. 7 no.4:355-356 July 58.

1. Ustav pro choroby obehu krevniho, Praha--Krc; Embryologicky ustav
KU, Praha.

(AORTA, metabolism,
lipolytic & esterolytic properties, in various animals (Cz))

(LIPASES,
in aorta in various animals (Cz))

(ESTERASES,
same)

LOJDA, Z.; ZEMPLENYI, T.

Histochemistry of certain enzymes in experimental atheromatosis in rabbits. Cesk. fysiол. 7 no.5:503-504 Sept 58.

1. Embryologicky ustav lek. fak. KU a Ustav pro choroby obehu krevniho, Praha.

(ENZYMES,

histochem. in exper. arteriosclerosis in rabbits (Cz))

(ARTERIOSCLEROSIS, exper.

enzymatic histochem. (Cz))

1.055A-2
FODOR, J.; ZEMPLENYI, T.; LOJDA, Z.; FELT, VI.

Effect of heparin & protamine sulphate on cholesterol induced atheromatosis in rabbits. Cas. lek. cesk. 97 no.10:316-319 7 Mar 58.

1. Ustav pro chorobyobehu krevniho Praha, prednosta prof. Dr Kl. Weber.- Embryologicky ustav lekarske fakulty Praha, prednosta prof. Dr. Z. Frank-enberger. J. F., Praha-Krc, Budejovicka 800.

(ARTERIOSCLEROSIS, exper.

cholesterol induced atheromatosis, eff. of heparin & protamine sulfate in rabbits (Cz))

(CHOLESTEROL, eff.

induction of atheromatosis in rabbits, eff. of heparin & protamine sulfate (Cz))

(HEPARIN, eff.

on cholesterol induced atheromatosis in rabbits (Cz))

(PROTAMINES, eff.

protamine sulfate on cholesterol induced atheromatosis in rabbits (Cz))

FABRY, P.; LOJDA Z.; KUJALOVA, V.

Morphological aspects of intestinal adaptation to interrupted cooling.
Cesk. fysiол. 8 no.3:183-184 Apr 59.

1. Ustav pro vyzkum vyzivy lidu, fysiол. odd. Embryologicky ustav lek.
fak. KU, Praha. Predneseno na III. fysiologickych dnech v Brne dne 14. 1.
1959.

(INTESTINES, physiол.
eff. of hypothermia (Cz))
(HYPOTHERMIA, eff.
on intestines (Cz))

ZEMPLENYI, T.; FODOR, J.; LOJDA, Z.

Histamine in fat cells and absorption of colloidal particles by the vascular epithelium. *Cesk. fysiolog.* 8 no.3:263-264 Apr 59.

1. Ustav pro choroby obehu krevniho Embryologicky ustav KU, Praha.
Predneseno na III. fysiologickych dnech v Brne dne 15. 1. 1959.

(HISTAMINE, eff.

on vasc. absorp. of colloidal fat particles (Cz))

(BLOOD VESSELS, physiol.

absorp. of colloidal fat particles, eff. of histamine (Cz))

(FAT, metab.

vasc. absorp., eff. of histamine (Cz))

FELT, V.; REICHL, D.; GRAFNETTER, D.; ROEHLING, S.; VOHNOUT, S.; LOJDA, Z.

Studies on the effect of certain hormones on experimental atherosclerosis. II. Effect of growth hormone, hydrocortisone and hyaluronidase on certain properties of atheromatous vascular wall in rabbits. Cas. lek. cesk. 98 no.10:294-299 6 Mar 59.

1. Ustav pro choroby obahu krevniho, reditel Prof. MUDr. Kl. Weber, Vyzk. ustav endokrinologicky, reditel doc. MUDr. K. Silink, Embryologicky ustav KY, prednosta prof. MUDr. Z. Frankenberger. V. F., Praha-Krc, Budejovicka 800.

(ARTERIOSCLEROSIS, experimental,
eff. of hyaluronidase, hydrocortisone & somatotropin
on vasc. wall (Cz))

(HYDROCORTISONE, effects,
on exper. arteriosclerosis, on vasc. wall (Cz))

(HYALURONIDASE, effects,
effects)

(SOMATOTROPIN, effects,
same)

LOJDA, Z.

Cytotopochemical study of enzymes in the hypophysis of the rat.
Cs morfologi 8 no.2:148-157 '60. (EEAI 9:8)

1. Embryologicky ustav fakulty vseobecneho lekarstvi Karlovy
university. Prednosta Prof. Dr. Zdenek Frankenberger.

(ENZYMES) (PITUITARY GLAND) (CELLS)
(ADINOSINETRIPHOSPHATASE) (NUCLEOTIDASES)
(ESTERASES) (SUCCINIC DEPHYDROGENASE)
(DIPHOSPHOPYRIDINE NUCLEOTIDE DIAPHORASE)
(TRIPHOSPHOPYRIDING NUCLEOTIDE DIAPHORASE)

JIRASEK, Jan, MUDr; LOJDA, Zd., MUDr; JIRASEK, Jaroslav

Localization of certain enzymes during the development of the urogenital system in man. Cs morfologie 8 no.3:262-273 '60.
(EEAI 9:10)

1. Embryologicky ustav fakulty vseobecneho lekarstvi KU v Praze, prednosta prof. MUDr Zd. Frankenbergger.

(ADINOSINETRIPHOSPHATASE)

(GENITOURINARY ORGANS)

(ESTERASES)

(NUCLEOTIDASES)

(PHOSPHATASES)

VIKTORA, J.; FODOR, J.; GRAFNETTER, D.; HAHN, P.; KOLDOVSKY, O.; LOJDA, Z.

Studies of certain biochemical indices of fat metabolism during the ontogenesis of rats. *Cesk. fysiол.* 9 no.1:63-64 Ja 60.

1. Ustav pro choroby obehu krevniho, Fysiologicky ustav CSAV a Embryologicky ustav lek, fak. KU, Praha,
(FATS metab.)
(GROWTH)

LOJDA, Z.; SCHREIBER, V.; KMENTOVA, V.

Histochemistry of phosphatases in the pituitary in rats in experimental hypothyroidism. *Cesk.fysiol.* 9 no.2:173 Mr '60.

1. Embryologický ústav a Laborator pro endokrinologii a metabolismus při III. interní klinice fak. všeob. lek. KU, Prah.

(PHOSPHATASES metab.)

(PITUITARY GLAND metab)

(HYPOTHYROIDISM exper)

SCHREIBER, V.; KMENTOVA, V.; KRULICH, L.; HOSCHL, M.; LOJDA, Z.

Preliminary experiences with the demonstration of a hypothalamic factor activating TSH secretion in vivo. Cesk. fysiол. 9 no.2: 175-177 Mr '60.

1. Laborator pro endokrinologii a metabolismus pri III. interni klinice, Fysiologicky ustav a Embryologicky ustav fak. vseob. lek. KU, Vyzkumny ustav endokrinologicky, Praha.
(THYROTROPIN physiol)
(HYPOTHALAMUS extract)
(PHOSPHATASES metab)
(PITUITARY GLAND metab)

SCHREIBER, V.; KMENTOVA, V.; LOJDA, Z.

Increased alkaline phosphatase activity in the hypophysis of rats in hypothermia. Cesk.fysiol. 9 no.3:262-263 My '60.

1. Laborator pro endokrinologii a metabolismus pri III interni klinice, Embryologicky ustav, fak. vseob. lek. KU, Praha.

(PITUITARY GLAND metab)

(PHOSPHATASES metab)

(HYPOTHERMIA INDUCED exper)

LOJDA, Z.; SCHREIBER, V.

Cyto-topochemical studies on enzymes of the hypophysis in rats.
Gesk. fysiolo. 9 no.4:377-378 J1 '60.

1. Embryologický ústav, Laborator pro endokrinologii a metabolismus,
fak. všeob. lek. KU, Praha.

(PITUITARY GLAND chem.)

(ENZYMES chem.)

ZEMPLENYI, T.; LOJDA, Z.; GRAFNETTER, D.; FODOR, J.; FELT, V.

Effect of soy oil on experimental atheromatosis of the aorta and on certain enzymes in the vascular wall in rabbits. Cas.lek.cesk. 99 no.42:1346-1351 14 0 '60.

1. Ustav pro choroby obehu krevniho, Praha-Krc, prednosta prof. MUDr. K. Weber - Embryologicky ustav KU v Praze, prednosta prof. MUDr. Z. Frankenberger.

(OILS pharmacol)
(SOY BEANS)
(AORTA dis)
(ENZYMES chem)
(BLOOD VESSELS pharmacol)

SVATY, J.; VAJNORSKY, J.; LOJDA, Z.

Progressive myositis ossificans in an 8-year-old boy. Cesk. pediat.
16 no.7/8:709-714 J1-Ag '61.

1. II detska klinika v Praze, prednosta prof. MUDr. J. Houstek Ustav
embryologie KU v Praze, prednosta prof. MUDr. Z. Frankengerger.

(MYOSITIS OSSIFICANS in inf & child)

LOJDA, Zdenek

The enzyme topochemistry of arterial wall. Os morfologie 10
no.1:46-61 '62.

1. Embryological Institute of the Medical Faculty, Charles
University, Praha.

ZEMPLENYI, T.; GRAFNETTER, D.; LOJDA, Z.; MRNOVA, O.

A study of metabolic factors involved in atherosclerosis. Rev.
czech. M. 8 no.2:124-132 '62..

1. Institute for Cardiovascular Research, Prague; Director: Academician
K. Weber -- Institute of Embryology, Charles University, Prague;
Director: Prof. Z. Frankenberger.

(ARTERIOSCLEROSIS metabolism) (LIPIDS metabolism)

FODOR, J.; ZEMPLENYI, T.; LOJDA, Z.; FABRY, P.

The role of mast cells in lipid metabolism. Rev. czech. M. 8 no.2:
133-136 '62.

1. Institute for Cardiovascular Research, Prague; Director: Academician
K. Weber Embryological Institute, Medical Faculty Charles University,
Prague; Director: Prof. Z. Frankenberger. Institute of Human Nutrition,
Prague-Krc; Director: Prof. Dr. J. Masek.
(MAST CELLS physiology) (LIPIDS metabolism)

LOJDA, Z.; SCHREIBER, V.

Enzymatic activities of the hypothalamus-hypophysial system. Cesk. fysiolog. 11 no.4:314-319 '62.

1. Histochemické oddělení angiologického laboratoru, Laborator pro endokrinologii a metabolismus, Fak. všeob. lek. KU, Praha.
(HYPOTHALAMUS metabolism) (PITUITARY GLAND metabolism)
(ENZYMES metabolism)

LOJDA, Z.

Some remarks on the histochemical detection of the dehydrogenase system. Folia morphol 21 no.3:305-313 '62.

1. Department of Embryology, Medical Faculty, Charles University, Prague.

LOJDA, Z.; SCHREIBER, V.

Cytotopochemical studies on the pituitary gland enzymes
of rat. Folia morphol 21 no.3:331-336 '62.

1. Zaklad Embriologii oraz Laboratorium Endokrynologii i
Metabolizmu, Wydzial Lekarski, Uniwersytet im. Karola, Praga.

*

ZEMPLENYI, T.; KNIZKOVA, I.; LOJDA, Z.; MRHOVA, O.

The group-specific carboxylic esterase activity of aortic tissue.
Cor vasa 5 no.2:107-113 '63.

1. The Institute for Cardiovascular Research, and the Angiological
Laboratory of Charles University, Prague.

(AORTA)	(ESTERASES)	(RATS)	(RABBITS)
(POULTRY)	(METABOLISM)		

SCHUCK, O.; ANDRYSEK, O.; ANDRYSKOVA, J.; LOJDA, Z.

The intrarenal distribution of diodrast¹³¹I. *Physiol. Bohemoslov.* 12 no.4:313-316 '63.

1. First Medical Clinic, Institute of Biophysics, Institute of Histology, Medical Faculty, Charles University, Prague.

(IODOPYRACET) (IODINE) (IODINE ISOTOPES)
(KIDNEY) (RADIOAUTOGRAPHY) (HYPOTENSION)
(METABOLISM)

LOJDA, Z.

CZECHOSLOVAKIA

YRICO, P.; SOBRA, J.; BEDNAR, B., Prof. Dr. Dr. LOJDA, Z.
LEPSIK, J.

1. Second Scientific-Research Laboratory of Gastroenterology of the Faculty of General Medicine of KU (II. vedeckovyzkumne pracoviste pro gastroenterologii Fakulty všeobecného lékařství KU), Prague; 2. Third Internal Medicine Clinics (III. vnitřní klinika), Prague; 3. Main First Pathological Anatomy Institute Hlavav I. patologicko-anatomický ústav (for Bednar).

Prague, Vnitřní lékařství, No 8, 1963, pp 782-788

"Whipple's Disease."

OSLOVSKYMI

REINIS, Z.; WENKE, M., Docent Dr; SOHO, M; LOSDA, Z; KUBAN, K;
VANBOUR, R.

1. Fourth Internal Medicine Clinic (IV. nitri klinika);
2. Pharmacological Institute (Farmakologicky ustav) (for Wenke);
3. Angiological Laboratory (Angiologicka laborator);
4. Second Institute of Pathological Anatomy (II. ustav patolo jickoanatomicky), Prague

Prac. Interni lekarska, 30

"The Influence of Alloxan Diabetes on Experimental Atherosclerosis."

(6)

LOJDA, Z.; PARIZEK, J.

Ontogenetic development and topochemistry of testicular dehydrogenases with special reference to zinc and to cadmium necrosis of the testes. *Physiol. Bohemoslov.* 12 no.6:512-517 '63.

1. Laboratory for Angiology, Faculty of General Medicine, Charles University, and Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

(TESTIS) (ZINC) (CADMIUM)
(OXIDOREDUCTASES) (GROWTH)
(LIPOAMIDE DEHYDROGENASE)
(VITAMIN A)

REINIS,Z.; FUCHMAYER,V.; SULC,M.; LOJDA,Z.; DUBEN,Z.

Role of the gonads in experimental arteriosclerosis in poultry.
Sborn. lek. 66 no.1:6-13 Ja'64

1. IV. interni klinika fakulty vseobecneho lekarstvi Univ.
Karlovy v Praze (prednosta: prof.dr. M.Fucik); Angiologicka
laborator fakulty vseobecneho lekarstvi University Karlovy
v Praze (vedouci:prof.dr.B.Prusik) a Vyzkumna laborator Ve-
terinarni spravy, Havlickuv Brod.

*

LOJDA, Z.; REINIS, Z., prof. dr., DrSc.

Topochemistry of enzymes in the aorta and coronary vessels of the cock with experimental arteriosclerosis. Sborn. Lek. 66 no.5:137-144 Ap '64.

1. Angiologicka laborator fakulty vseobecneho lekarstvi University Karlovy v Praze (reditel prof. dr. Z. Reinis, DrSc.).

LOJDA, Z.

Fixation of histochemistry. Cesk. morf. 13 no.2:65-83 '65

Remarks on histochemical demonstration of dehydrogenases. II.
Intracellular localization. Ibid.:84-96

1. Angiological Laboratory and 1st Institute of Pathology,
Faculty of Medicine, Charles University, Prague.

KUJALOVA, V.; MOSINGER, B.; LOJDA, Z.

The effect of inhibitors of the lipolytic action of adrenaline on adenosintriphosphatase and hexokinase activities in rat adipose tissue. *Physiol. Bohemoslov.* 14 no.2:160-165 '65.

1. Laboratory of Metabolic Regulations, Institute of Human Nutrition, Laboratory of Angiology, Medical Faculty, Charles University, Prague.

JANATA, J.; STANEK, L.; PELKA, Z.

Deficiency of 17-beta-hydroxysteroid dehydrogenase in androgenic-
active tumor of the ovary. Cas. lek. cesk. 104, no.39:812-816
23 J1 '65.

1. Gynekologicko-porodnicka klinika Ustavu detskeho lekarstvi
v Praze (prednosta doc. dr. A. Cernoch), Vyzkumny ustav endo-
krinologicky v Praze (reditel doc. dr. K. Silink, DrSc.) a
Angiologicka laborator IV. interni kliniky fakulty vseobecneho
lekarstvi Karlovy University v Praze (vedouci prof. dr. E. Peinis).

FUCHMAYER, V.; REINIS, Z.; LOJDA, Z.; SULC, M.; DUBEN, Z.

Effect of estrogenization on experimental arteriosclerosis of roosters. Cas. lek. Cesk. 104 no.49/50:1360-1365 10 b '65.

1. IV. interni klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. M. Fucik), Angiologicka laborator pri IV. interni katedre Fakulty vseobecneho lekarstvi Karlovy University v Praze (vedouc' prof. dr. Z. Reinis) a Ustredni státní veterinární ústav v Praze.

CZECHOSLOVAKIA UDC 616.33-008.337:616.343-008.9(:577.158.42(547.472.3).012)-076

FRIG, P.; LOJDA, Z.; 2nd Scientific and Research Center of Gastroenterology, Faculty of General Medicine, Charles University (II. Vedeckovyzkumne Pracoviste pro Gastroenterologii Fakulty Vseobecneho Lekarstvi KU)., Prague, Head (Vedouci) Prof Dr K. HERFORT; Angiological Laboratory Faculty of General Medicine, Charles University (Angiologicka Laborator Fakulty Vseobecneho Lekarstvi KU), Prague, Head (Vedouci) Prof Dr Z. REINIS; 1st Institute of Pathological Anatomy, Faculty of General Medicine, Charles University (I. Ustav Patologicke Anatomie Fakulty Vseobecneho Lekarstvi KU), Prague, Head (Prednosta) Prof Dr B. BEDNAR.

"Lactate Dehydrogenase Isoenzymes of Jejunal Biopsies in Patients with Malabsorption Syndrome."

Prague, Casopis Lekarů Českých, Vol 105, No 32, 15 Aug 66, pp 860 - 864

Abstract [Authors' English summary modified]: A decrease of LDH5 and an increase in LDH4 and 3, and of H monomers of LDH is found in jejunal biopsies in adults with nontropical sprue, and in children with celiac disease. These changes may be used in diagnosis and in studies of heredity. 3 Figures, 1 Table, 19 Western, 7 Czech references. (Manuscript received Nov 65)
1/1

OSTROWSKI, K.; MOSKALEWSKI, S.; KURNATOWSKI, W.; LOJEK, T.

Organization and activities of the Central Tissue Bank. Pol.
tyg. lek. 20 no.40:1494-1496 4 0 '65.

1. Z Komisji Konserwacji Tkanek Polskiej Akademii Nauk i z
Zakładu Histologii i Embriologii AM w Warszawie (Kierownik:
prof. dr. med. Kazimierz Ostrowski) oraz z Pracowni Konser-
wacji Tkanek 2 Centralnego Szpitala Klinicznego Wojskowej AM.

LOJEWSKI, Stanislaw, mgr inż.

Model calculation of the effectiveness of soil improvements on permanent grassland. Gosp wodna 22 no.8:379-384 '62.

1. Zakład Melioracji, Instytut Melioracji i Użytków Zielonych, Warszawa.

KLEMENCIC, Vladimir, dr.; JERSIC, Matjaz; LOJK, Joze; VOJVODA, Metod;
JELIC, Djoko

Study on the utilization of soil in three villages of
Yugoslavia. Geogr vest 34:61-114 '62[publ.'63].

1. Institut za geografijo Univerze v Ljubljani.
2. Clan Uredniskega odbora, "Geografski vestnik" (for Klemencic).

LOJK, Jozë

Seventh Congress of Yugoslav Geographers in Croatia; September 23-30, 1964. Geogr vest 36:122-125 '64 [publ. '65].

ZERNICER, D.; LOJKASOVA, B.

Qualitative changes in the serum albumin in liver and other diseases. *Čas. lek. česk.* 104, no. 5:25-33 12 F165.

1. Vyzkumny ustav veterinárního lékařství v Brně, oddělení dietetiky a zochyzeny (vedoucí: doc. inz. MVDr. J. Vlček) a Katedra lékařské chemie, fyziky a toxikologie veterinární fakulty VSE v Brně (vedoucí: prof. MVDr. A. Jiráček).

DIENSTBIER, Zd.; VITEK, F.; technicka spoluprace STACHOVA, M.; JIROUNEK, P.
CERNIOVSKA, M.; LOJKOVA, M.

Peripheral blood changes after internal irradiation. II. Effect of
radiogold Au198. Sborn. lek. 64 no.7:193-201 JI '62.

1. Biofyzikalni ustav fakulty vseobecneho lekarstvi University
Karlovy v Praze, prednosta doc. dr. Zd. Dienstbier.
(GOLD radioactive) (RADIATION EFFECTS exper)
(BLOOD CELLS radiation effects)

VOLEK, V.; DIENSTBIER, Zd.; technicka spoluprace: STACHOVA, M.; PAPEZOVA, R.;
CERNOVSKA, M.; LOJKOVA, M.

Effect of radiations on the level of serum lactic dehydrogenase in
the rat. Acta univ. carol. [med.] Suppl. 14:103-110 '61.

1. I. interni klinika fakulty vseobecneho lekarstvi University Karlovy
v Praze, prednosta prof. dr. V. Hoenig Biofyzikalni ustav fakulty
vseobecneho lekarstvi University Karlovy v Praze, prednosta doc. dr.
Z. Dienstbier.

(LACTIC DEHYDROGENASE blood) (RADIATION INJURY exper)

USSR/Farm Animals - Honeybee

Abs Jour : Ref Zhur - Biol., No 15, 1958, 69423

Author : Zhgenti, S.K., Lekishvili, M.A., Lokabidze, I.M.
Kakabadze, O.Ye.

Inst : Scientific Research Institute of Animal Husbandry of
Georgian SSR

Title : Results of Investigating the Economically Valuable
Properties of Four Basic Populations of Gray High-
Mountain Georgian Honeybees

Orig Pub : Sb. tr. N.-1. in-t zhivotnovodstva. GruzSSR, 1957, 2,
243-257

Abstract : As a result of three-year investigation, it was esta-
blished that the Megrelskaya honeybee has the longest
ligula (7.02 mm), highest productiveness, is less incli-
ned to swarming, is peaceful, but at the same time is

Card 1/2

- 63 -

CZECHOSLOVAKIA

LOKAJ, J.

Microbiological Institute of the Medical Faculty
UJEvP (Mikrobiologický ústav lékařské
fakulty UJEvP), Brno

Prague, Rozhledy v tuberkulóze, No 4, 1963, pp
250-257

"Differentiation of Mycobacteria by Microbiological
Demonstration of Isonicotinic Acid."

LOKAJICEK, MILCS

8
(3) - RMF

Isotopic spin of elementary particles. Václav Votruba
 and Milos Lokajicek (Charles Univ., Prague). *Czechoslov. J. Phys.* **2**, 1-12 (1953) (in English); cf. C.A. 46, 5979b. —
 Math. It is shown how elementary particles can be grouped
 in terms of their ordinary and isotopic spins. The lepton,
 with ordinary spin $1/2$ and isotopic spin 1, has 3 charge states,
 the electron, the positron, and the Majorana neutrino. The
 pion, with ordinary spin 0 and isotopic spin 1, also has 3
 charge states, π^+ , π^0 , and π^- mesons. The nucleon, with
 ordinary spin $1/2$ and isotopic spin $1/2$, has 4 states, proton,
 neutron, anti-proton, and anti-neutron. Interactions of
 the lepton field and of the pion field with the electromag-
 netic and the nucleon fields are considered. The theory is
 shown to be independent of the representation of the isotopic
 spin operators. J. J. Mitchell

11-23-54
RMF

LOKAJICEK, MILOS

9
② -RMZ

Scattering of pions by nucleons. Milos Lokajicek (Charles
University, Prague). *Czechoslov. J. Phys.* 2, 15-17 (1953) (in
English).—The mesons π^+ , π^- , π^0 , and π' (π' represents a
neutral meson with isotopic spin 0) are assumed to be
charge states of a single pion which may have isotopic spin 1
or 0. The fundamental equations for the interaction of the
pion field with the electromagnetic and nucleon fields are
formulated. The pion-nucleon scattering matrix is calculated.
J. J. Mitchell

11-23-59
RMZ

NK
 Votruba, Václav, and Lokajšček, Miloš, Nucleon isobars and pion scattering, Czechoslovak J. Phys. 4, 1-13 (1954). (Russian summary) *1 - F/W*

IRML

On the basis of the apparent occurrence of an isobaric state of the nucleon in recent pion-nucleon scattering experiments, the authors assume that the nucleon is a Dirac particle, the isotopic spin vector of which can have two different lengths, 1/2 and 3/2. A convenient set of matrices is introduced to describe this situation and the algebraic relations between them are given. They are further investigated in the paper reviewed hereafter. The rest of the present paper discusses briefly the coupling between nucleon and pion and its implications for pion-nucleon scattering.
 L. Van Hove (Utrecht).

Votruba, V., and Christov, Christo Jenko, Die Algebra des Isotopen Spins (3, 1/2), Czechoslovak J. Phys. 4, 403-418 (1954). (Russian summary)

All irreducible hermitian matrix representations are determined for a system of relations established previously by Votruba and Lokajšček for special matrices encountered in the combination of representations $D_{1/2}$ and $D_{3/2}$ of the three-dimensional rotation group [see the paper reviewed above].
 L. Van Hove (Utrecht).

2

2

LOKAJICEK, MILOS

11/11/64

Nucleon isobars and pion scattering, Vaclav Votruba and Milos Lokajicek (Charles Univ. Prague) Czechoslovak J. Phys. 4, 4-12 (1959) (in English) - Some properties were found of a new irreducible matrix algebra of degree $2n$, assoc. with the isotopic spin $(3/2, 1/2)$. The application of this algebra to the phenomenological description of the nucleon isobars and the scattering of pions by free nucleons is examd. Assuming the nucleon as a Dirac particle, they obtained for the mean life time of its excited state with isotopic spin $3/2$ a value of the order of magnitude 10^{-19} sec in agreement with Brueckner's estimate (cf. C. A. 46, 6007e) C. J. O'Brien

LOKAJICEK, M.

"Review of the Theory of Radioactivity" P. 50
(ČESKOSLOVENSKY CASOPIS PRO FYSIKU Vol. 4, No. 1, Feb. 1954 - Praha, Czech.)

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

STASEK, Vladimir; LOKAJICEK, Milos; JAKUBKOVA, Jaroslava. Techn.spolupr.:
A.Nebrenska.

Studies on a gonad-dose in roentgeno-therapy of selected non-
neoplastic diseases.Cesk. rentg. 14 no.1:1-4 F '60.

1. Radiologicka klinika EU, prednosta prof. MUDr. V. Svab,
Onkologicka laborator fakulty vseob. lekarstvi, reditel doc. MUDr.
J. Venta.

(RADIOTHERAPY)

(GONADS radiation eff.)

LOKAJICEK, M.

Dosimetry in roentgen therapy. Cesk. rentgenol. 16 no.1:1-7 F '62.

1. Tesla-Pardubice, n.p., Vyzkumny zavod Premysleni u Prahy.
(RADIOMETRY)

LOKAJICEK, M.; JAKOUBKOVA, J.; STASEK, V.; technicka spoluprace:
NEBRZEMSKA, A.

Gonadal dosage in the treatment of non-tumorous diseases with
x-irradiation (Dosimetric study). Cesk. rentgenol. 16 no.1:
30-35 F '62.

1. Vyzkumny zavod Tesla-Premyslenni Radiologicke klinika a onkologicke
laborator FVL KU.
(GONADS radiation effects) (RADIOTHERAPY)

LOKAJICEK, Milos

An apparatus for measuring the low energy beta particles.
Jaderna energie 8 no.9:326-327 S '62.

LOKAJICEK, M.

5

CZECHOSLOVAKIA

STASEK, V., Docent MD; JAKOUBKOVA, J., MD; KOLAR, J., MD;
LOKAJICEK, M., Dr., Radiologist; BRACHFELD, K., MD;
TICHY, S., MD.

1. Oncological Laboratory FVL (Onkologicka laborator FVL), Prague; 2. Radiological Clinic FVL (Radiologicka klinika FVL), Prague (for Lokajicek); 3. Research Institute and Development Institute (Vyzkumny a vyvojovy zavod), Premysleni; 4. Second Pediatrics Clinic, ORL Laboratory CSAV (II. pediatricka klinika, ORL laborator CSAV), Prague

Prague, Prakticky lekar, No 2, 1963, pp 71-73

"The Effect on the Patient of X-Ray Therapy."

ACCESSION NR: AT4049966

Z/2511/61/000/001/041/0416

AUTHOR: Lokajicek, M. (Lokaichek, M.)(Premysleni)

2
26
B+1

TITLE: Detection of low energy beta radiation with the aid of liquid scintillators 19

SOURCE: Prague. Ceske vysoke uceni technicke. Prace. Ser. 6, no. 1, pt. 2, 1961, 415-416

TOPIC TAGS: beta radiation, low energy radiation, liquid scintillator, toluene, carbon 14, radioactive isotope, counting rate, photomultiplier, background radiation, noise background, thermal noise

ABSTRACT: The article describes a low-energy beta radiation detector using liquid scintillators currently being developed at the Vyzkumni zavod Tesla-Premysleni (Tesla Research Factory at Premysleni). The luminescence efficiency of the liquid scintillators, the photomultiplier noise and the effect of temperature, and the detection efficiency for the isotope C^{14} are discussed. Inasmuch as the radiation background is for the most part of a higher energy level than that of the isotope C^{14} , it is possible to considerably reduce it by using a broad-channel pulse analyzer. It was possible to obtain a detection efficiency of 50%, given a background

1/2

L 24690-65

ACCESSION NR: AT4049966

2

not exceeding 40 imp/min, by a suitable choice of both discrimination levels for the three photomultipliers described in text (with very low thermal noise) and a 40 cm³ toluene-base liquid scintillator containing 5 g/l FBD [1,3,4-phenylbiphenyl-yloxadiazoie]. The lead shielding was approximately 5 cm thick. If instead of the broad-channel pulse analyzer only simple discrimination is used, one may expect that with the 61PK611 type photomultiplier used, the background will not be greater than 10-15 imp/min (at normal temperature) for a 5 cm³ liquid scintillator and the same detection efficiency. It is also assumed that only Czech-made parts are used. Orig. art. has: 1 table.

ASSOCIATION: VZ, Premysleni

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 000

OTHER: 000

Card 2/2

LOZAJICEK, MILAN

Scintillation camera, a new equipment for work on the distribution of radioisotopes in a living organism. Internal Security - R. P. 450-452 D 164.

1. Research Plant Tesla, Preradiant.

L 40680-65 EWT(m)/T/EWA(h) LJP(c)

ACCESSION NR: AP5011979

CZ/0038/64/000/012/0450/0452

AUTHOR: Lokajicek, Milos (Prenysleni)

TITLE: Scintillation detector - a new installation for investigation of radioisotope distribution in a living organism

SOURCE: Jaderna energie, no. 12, 1964, 450-452

TOPIC TAGS: radioisotope, scintillation detector, gamma ray, gamma detector

Abstract: Three forms of the scintillation camera or gammagraph are described, all of which are designed to present a pattern on an oscilloscope that represents the distribution of an isotope in a living organism. The first of these is similar in principle to a pinhole camera. In this case the hole is defined by a conical lead shield, and the image is formed on a circular NaI(Tl) crystal. Seven photomultiplier behind the crystal are connected into a matrix from which are taken X and Y signals as well as a Z signal, which goes through a differential analyzer. Along with this, there is sometimes used a positron scintillation camera which depends upon the principle that the two gamma rays emitted in the annihilation of a positron are in coincidence and exactly opposite in directions. The third form of scintillation camera is called the autofluoroscope and uses 293 small NaI crystals connected by light pipes to 35 photomultipliers. Each crystal lies behind its own collimator

Card 1/2

L 40680-65

ACCESSION NR: AP5011979

hole and the output of the photomultipliers emits a signal giving the row and the column locating the origin of a gamma ray as well as its energy. Equations describing the performance of each of the devices are given. Orig. art. has 4 figures.

ASSOCIATION: Vyzkumny zavod Tesla-Premyslani (Tesla Research Plant)

SUBMITTED: 00

ENCL: 00

SUB CODE: NP, LS

NO REF SOV: 000

OTHER: 006

NA

Card 2/2

L 00051-66 EWT(m)/EWA(h)

ACCESSION NR: AP5025464

CZ/0038/65/000/004/0147/0149

AUTHOR: Lokajicek, Milos

TITLE: Influence of the discrimination and dead times on the parameters of coincidence scintillation detector of low-energy beta radiation

SOURCE: Jaderna energie, no. 4, 1965, 117-149

TOPIC TAGS: scintillation detector, beta radiation

ABSTRACT: A mathematical derivation is given for equations relating the signal pulse rate, the noise pulse rate in each branch of the circuit, the resolving time, and the dead time of the circuit to the loss of signal count. Graphical plots of the resulting equations show the dependence of the maximum dead time which can be permitted at given noise levels for counting losses of 1 and 10% respectively. As an example, it is cited that in counting tritium with a coincidence scintillation detector arrangement with a counting efficiency of 40 to 45% at -5 to -10°C the noise level is approximately 10 sup 3 impulses per second. At ordinary temperatures, a noise level an order of magnitude higher is encountered. Orig. art. has 2 figures, 3 graphs, and 4 formulas.

Card 1/2

L 00051-66

ACCESSION NR: AP5025464

ASSOCIATION: Vyzkumny zavod Tesla, Premysleni (Tesla Research Factory)

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 001

OTHER: 000

NA

KC
Card 2/2.

STASFK, V.; JAROUHOVA, J.; ...
JOKALICEK, M.; KALIN, V.; ...

Study of late changes following ... in
the developing organism. ...
165.

1. Onkologická laborator, radiologická klinika fakulty vše-
obecného lékařství Karlovy University v Praze, II. pediatrická
klinika fakulty dětského lékařství Karlovy University v Praze,
Otorinolaringologická laborator Československé akademie věd
v Praze, Vyzkumný ústav n.p. lecin v Prahy a
očkovacích látek v Praze.

ACC NR: AP7005527

(A)

SOURCE CODE: CZ/0038/66/000/011/0429/0431

AUTHOR: Lokajicek, Milos

ORG: Research Institute for Nuclear Engineering Equipment, Premysleni near Prague
(Vyzkumny ustav pristroju jaderne techniky)

TITLE: Some theoretic problems with equipment for determining radioactivity
distribution in living organisms

SOURCE: Jaderna energie, no. 11, 1966, 429-431

TOPIC TAGS: ~~radioactivity effect~~, ~~radiation tolerance~~, human physiology, ~~radio~~
~~activity measurement~~ *radioisotope, diagnostic medicine, tracer study, radiology*

ABSTRACT: In medical diagnostics it is important to trace dynamic processes through isotope concentration and to determine activity distribution in living organs. For such scanning, optimal efficiency is essential in apparatus, particularly as to sensitivity and discriminative capacity. Examples are given in the use of point and plane radiation sources with four types of collimators when the source is placed on or directly in the human organ, and formulas are derived for detector response sensitivity and resolution in relation to depth of the radiation activity within the body. Scintillation chambers and kinetic gamagraphs are compared and formulas are derived for the number of pulses they register with different types of collimeters. The information theory is then applied to determine optimal resolution of successive

616-073.75

Card 1/2

UDC: 539.1.08

ACC NR: AP7005527

scannings. It is concluded that more research will have to be done before exact methods can be developed to register small deviations in activity distribution for application in practical diagnostics. Paper presented by J. Klumpar. Orig. art. has: 15 formulas, 1 table, and 4 figures.

SUB CODE: 06/8/SUBM DATE: 15Feb66/ ORIG REF: 001/ OTH REF: 006

Card 2/2

LOKAJICEK, V.; NADVORNIK, P.

Methodology of the gnoseological evaluation of psychic changes
after stereotaxic operations. *Activ. nerv. sup.* 6 no.1:78-79
'64.

*

KOLOTOV, M.; LOKALENKO, A.

In the interests of technological progress. Sov. profsoiuzy 4 no.9:35-37 S '56. (MIRA 9:10)

1. Ispolnyayushchiy obyazannosti zaveduyushchego otdelom proizvodstvenno-massovoy raboty Bashkirskego sovprofa (for Kolotov) 2. Starshiy instruktor Bashkirskego sovprofa (for Lokalenko). (Bashkiria--Efficiency, Industrial)

25

LOKALOVA, E
ca

Dyeing with sulfur dyes without adding sodium sulfide
 G. Slavina and E. Lokalova *Tekstil. Prom.* 5, No. 11, 12,
 62 (1945). Expts. on the application of S dyes with
 NaOH indicate that if the dye contains sufficient fixed
 NaS, addn. of NaS to the dye bath is not necessary.
 No conclusion can be drawn concerning kinds of dyes with
 which NaS may be omitted, but S khaki 29, S brown 2b
 can partly, and S brown in most cases contain sufficient
 fixed NaS. M. Hoch.

ADD-314 METALLURGICAL LITERATURE CLASSIFICATION

FROM SYNONYMS: FROM SYNONYMS

FROM SYNONYMS: FROM SYNONYMS

MIZYUKOVA, I.G.; LOKANTSEV, D.S.

Comparative evaluation of toxic and antidotal properties of certain mercaptoalkylsulfonate derivatives. Farm.i toks. 23 no.4:355-362
Jl-Ag '60. (MIRA 14:3)

1. Laboratoriya farmakologii (zav. -- prof. N.I.Luganskiy) Ukrainskogo nauchno-issledovatel'skogo sanitarno-khimicheskogo instituta.
(DIMERCAPROL) (SULFONIC ACIDS)

L 9058-00 EWI(m)/EWP(i)/T/EWA(h)/ETC(m)/EWA(l) TW/RM

ACC NR: AP6000975

SOURCE CODE: UR/0286/65/000/022/0057/0057

INVENTOR: ^{44,55} Barkova, M. V.; ^{44,55} Lebedeva, L. V.; ^{44,55} Lokantseva, I. M.; ^{44,55} Zaviralina, T. P.; Chentemirova, L. M.^{44,55}

ORG: none

TITLE: Preparation of heat-resistant¹⁵ epoxy compounds. Class 39, No. 176393

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 57

TOPIC TAGS: epoxy plastic, heat resistance, irradiation resistance, *heat resistant material*

ABSTRACT: An Author Certificate has been issued for a preparative method for heat- and radiation-resistant¹⁵ compounds based on epoxy resin¹⁵ and a curing agent. The method provides for the use 9,10-dihydroanthracene, or the 9,10-endo- α ,8-succinic anhydride [sic], an adduct of maleic anhydride and anthracene. [BO]

SUB CODE: 11, 07/ SUBM DATE: 19Jul63/ ATD PRESS: 4157

PC

Card 1/1

UDC: 678.643.043

/ Development of paper chromatography and its application
in medicine. *Michigan, Lekar. Farm. (about 10, 13) 8*
(1954) - A review of paper chromatography and its applica-
tion in medicine - 37 references. Mihajlov.

1971-1972
1973-1974
1975-1976
1977-1978
1979-1980
1981-1982
1983-1984
1985-1986
1987-1988
1989-1990
1991-1992
1993-1994
1995-1996
1997-1998
1999-2000

LOKAR, Vladimir, ing.

Construction of coaxial cable network in the connection with the
automatization of long-distance telephones. Automatika 2 no.3:
171-172 Ag '61.

(Telephone cables)

LOKAR, Vladimir, inz.

Building of coaxial telephonic system on the line Ljubljana
-Zagreb. PTT zbor 15 no.12:235-237 D '61.

LOKATOSH, B.K., kand. tekhn. nauk; NEKHAMKIN, N.O., kand. tekhn. nauk.

Determining the efficiency of continuous multiple-production lines.
Nauch. trudy Len. lesotekh. akad. no.76:48-56 '57. (MIRA 11:4)
(Woodworking machinery) (Efficiency, Industrial)

LOKAY, A.I. [Lokai, A.I.], klinicheskiy ordinator

Two cases of measles in newborn infants and puerperae. Ped., akush.
i gin. 23 no.6:60-61 '61. (MIRA 15:4)

1. Kafedra infektsionnykh bolezney (zav. - prof. B.Ya.Padalka)
Kiyevskogo meditsinskogo instituta im. akad.Bogomol'tsa (rektor -
dotsent V.D.Bratus').

(MEASLES) (INFANTS (NEWBORN)--DISEASES)

LOKAY, A.I.

Functional state of the adrenal cortex in acute dysentery.
Vrach. delo no.10:97-99 0 '63. (MIRA 17:2)

1. Kafedra infektsionnykh bolezney (zav. - dotsent V.P. Osipov) i kafedra biokhimi (zav. - dotsent Z.Zh. Gude) Ternopol'skogo meditsinskogo instituta.

BEŁAŁSKI, Tadeusz; MAJCHER, Ewa; KADAR, Maria.

Determination of antraquinone compounds in fruits of 20 strains of
Rhamnus l. Acta Pol. pharm. 21 no.2:131-134 '64.

1. Z Katedry Farmakognozji Akademii Medycznej we Wrocławiu
(Kierownik: prof. dr. T. Bełalcki).

ZHIRITSKIY, G.S.; LOKAY, V.I.

Coefficient of heat transfer from gas to turbine blades. Trudy KAI
23:132-142 '49. (MIRA 10:6)

(Gas turbines--Blades)

LOKAY, V.I.

Increasing the power of gas-turbines. Trudy KAI 24:101-115 '50.
(MIRA 10:7)

(Gas-turbines)

LOKAY, V.I.

Heat exchange in hollow blades of gas-turbines. Trudy KAI
25:116-128 '51. (MLRA 10:7)
(Gas-turbines--Blades) (Thermodynamics)

LOKAY, V.I.

Hydrodynamic theory of the heat exchange applied to circular slots.
Trudy KAI 26:73-88 '52. (MLRA 10:6)
(Thermodynamics) (Fluid dynamics)

LOKAI, V. I.

SOV/124-57-3-2954

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 3, p 44 (USSR)

AUTHOR: Lokai, V. I.

TITLE: The Effect of the Radial Clearance Upon the Heat Process of a Gas-turbine Stage Equipped With Elongated Vanes (Vliyanie radial'nogo zazora na teplovoy protsess gazoturbinoi stupeni s dlinnymi lopatkami)

PERIODICAL: Tr. Kazan. aviats. in-ta, 1953, Vol 27, pp 70-90

ABSTRACT: A description is given of the calculation of the gas leakage through the radial clearance of a gas-turbine stage wherein the twist of the vanes varies in accordance with the laws

$$r c_{1u} = \text{const}, \quad c_{1a} = \text{const}$$

$$r c_1 \cos \alpha_1 = \text{const}, \quad \alpha_1 = \text{const}$$

where c_{1u} and c_{1a} are the circumferential and the axial components of the gas velocity at the nozzle exit sections at a given radius r . Use is made of the Bernoulli equation as modified by the introduction

Card 1/2

SOV/124-57-3-2954

The Effect of the Radial Clearance Upon the Heat Process of a Gas-turbine (cont.)

of the coefficients of the velocity losses in the nozzle apparatus and in the rotor vanes. It is assumed that the expansion of the gas in a radial clearance takes place in the axial direction only. Calculation results are given of the effect produced upon the relative internal efficiency of the stage by the deviation of the value of the radial clearance from its design value. The calculations show that a 1% increase in the value of the clearance as compared to the design-clearance value results in an efficiency loss of 1-2%. Bibliography: 6 references.

A. G. Ivanishchev

Card 2/2

USSR:

1954. DEPENDENCE OF PROFILE LOSSES IN (GAS TURBINE) BLADING ON ANGLE OF
ATTACK. Lokal. V. I. (Inv. Akad. Nauk USSR, Geol. Vopr. Nauch. Akad.
Sci. U.S.S.R., Sect. Tech. Sci.), June 1954, 47-52. Formulas are derived
from experiments in which air was blown through an adjustable grid of stationary
blades and pressure measurements were made at their surface.

LOKAY, V. I.

"Effect of the Angle of Incidence on the Operation of a Turbine Lattice," by V. I. Lokay, Tr. Kazansk. aviats. in-ta, 30, 1954, pp 135-151 (from Referativnyy Zhurnal--Mekhanika, No 11, Nov 56, Abstract No 7352, by A. I. Borisenko)

"Presents the results of 85 tests of 12 different types of turbine profile lattices at $M \approx 0.7$ and $R \approx 0.5 \times 10^5$. The operation of the lattice was characterized by its efficiency factor, which was determined by the relationship of the kinetic energy of the flow behind the lattice to the presumed energy.

"On the basis of the author's tests, as well as on the tests of other investigators, it is noted that curves $\Delta \eta = f(\alpha)$, where α is the relative angle of incidence (ratio of the angle between the flow velocity vector and the tangent to the center line of the inlet edge profile to the angle between the lattice axis and the tangent to the center line of the inlet edge), while $\Delta \eta$ is the ratio of the difference between the computed maximum and average efficiency factors to the computed (maximum) efficiency factor, are well approximated by the relationship $\Delta \eta = A \alpha^2$, where $A = 0.8 - 1.0$ for $\alpha > 0$ and $A = 0.1 - 0.2$ for $\alpha < 0$.

"Thus, the shape of the profile in the lattice has little effect on the lattice characteristics along the relative angles of incidence.

"The sensitivity to a change in the angle of incidence decreases when lattice density is increased."

Sum 1258

LOKAY, V.I.

Effect of the angle of attack on the performance of turbine cascade
of profiles. Trudy KAI 30:135-151 '55. (MIRA 10:6)
(Gas-turbines--Blades)

L. OKAY, V. I.

24-11-12/31

AUTHOR: Lokay, V. I. (Kazan')

TITLE: Comparison of the cycles of gas turbines with constant combustion pressure and gas turbines with constant combustion volume. (O sravnenii tsiklov gazoturbinnykh ustanovok s postoyannym davleniyem i postoyannym ob'yemom sgoraniya).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1957, No.11, pp.92-98 (USSR)

ABSTRACT: It is shown in the paper that gas turbine equipment with periodic combustion, operating on the principle of a simple cycle, may possess a considerably higher efficiency and specific power than gas turbines with a constant pressure and continuous combustion in the chambers and also operating according to a simple cycle. The cycle characterised by $v = \text{const.}$ (the Stodola cycle) is compared with the cycle characterised by $p = \text{const.}$ On the basis of calculations, which are mentioned but not given in detail, the following conclusions are derived: for an equal temperature of the blades of the first stage the initial temperature in the cycle $v = \text{const.}$ can be made appreciably higher (by 200 to 400°C) than in a cycle with $p = \text{const.}$ The extreme flatness of the efficiency and the specific output curves near the maximum, particularly for high initial temperatures,

Card 1/3

24-11-12/31

Comparison of the cycles of gas turbines with constant combustion pressure and gas turbines with constant combustion volume.

permits choosing considerably lower compression ratios in the compressor than the optimum value in gas turbines with periodic combustion. This brings about not only a decrease in weight of the compressor unit but also a reduction in the temperature of the blades owing to a reduction of the temperature of the blown through air. In the considered gas turbines with periodic combustion, the specific useful power is 2.5 to 2.7 times and the efficiency is 1.3 to 1.4 times as high as in gas turbines with continuous combustion; this can be seen from Fig.7 in which the blade temperature is plotted on the abscissa. Curves 1 and 2 in Fig.7, which pertain to gas turbines with periodic combustion, intersect at the point A and this indicates that, for low temperature cycles with blade temperatures below that corresponding to this intersection point, selection of the pressure ratio of the compressor from the point of view of optimum specific power ensures not only a maximum specific power but also a higher efficiency. This is attributed to the favourable influence of a drop in the air temperature beyond the compressor on the blade temperature. Gas turbines with periodic

Card 2/3

LOKAY, V.I.

Gas screen in gas-turbine units with periodic combustion.

Izv. vys. ucheb. zav.; av.tekh. 2 no.1:74-80 '59.

(MIRA 12:3)

1. Kazanskiy aviatsionnyy institut, Kafedra aviatsionnykh
lopatochnykh mashin.

(Gas turbines)

30246

S/145/60/000/002/014/020
D221/D302

26.1120

AUTHOR: Lokay, V.I., Candidate of Technical Sciences, Docent

TITLE: On the problem of calculating a stage in gas turbine with periodic combustion in chambers

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Mashino-stroyeniye, no. 2, 1960, 145 - 158

TEXT: Gas turbines with periodic combustion may be more advantageous than those with continuous process, provided that the life of the blades is equal in both cases. This deduction is made for the process of instantaneous and complete mixing of combustion products with air. Due to significant thermal drops in the turbine, it is expedient to use a multistage design (Fig. 2). The author indicates features of the calculations and provides preliminary recommendations on the choice of parameters in the pulsating stage. Good scavenging requires that pressure in the downstream of the nozzle in the first pulsating stage p_c , should be less than the pressure of charging p_k . Analytical work is quoted in connection
Card 1/A3

On the problem of calculating a ...

30246
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with selection of the type of nozzle and the inlet angle of rotor blades in the pulsating stage β_{1t} . In the greater part of the first phase, when the outflow from the chamber takes place at a pressure reduced to the value of the downstream pressure in compressor p_k , the inlet angle varies little. During the second phase of the outflow at constant pressure p_k , the above angle changes. It is pointed out that the first phase has a decisive effect on the efficiency of the pulsating stage. The mean efficiency of the pulsating stage depends to a large extent on the ratio of speeds u/c_{10} , where c_{10} is the speed at the outlet of the nozzle in the beginning of the outflow. It is assumed that losses due to friction and ventilation are greater in the pulsating stage as compared with the conventional design. The author elaborates on equations concerning the work in both phases of outflow, and use is made of linear law on heat produced with the time. Calculations carried out for a wide range of changes in the initial parameters ($T_0 = 1200 - 1850^\circ$ absolute) revealed that in the case of tapered nozzles the ratio of speeds is about 0.3 - 0.4, and similar results are

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