"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOS, V.; SKAUNIC, V.; NERAD, V.; HRADSKY, M.; FIXA, B.; KOMARKOVA, O.

External pancreatic secretion in relation to age. Cesk. gastroent. vyz. 17 no.7:395-401 N'63

1. I. interni klinika (prednosta doc. dr. F. Cernik) a II. interni klinika (prednosta prof. dr. V.Jurkovic) lekarske fakulty Karlovy University v Hradci Kralove.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

GROH, Jindrich; KVASNICKOVA, Eva; KVASNICKA, Jiri; BARTOS, Vladimir; ERBEN, Josef.

Determination of minerals, proteins and glycogen in muscle. Sborn. ved. prac. lek. fak. Karlov. univ. (Hrad.Kral.) 6 no.5 suppl.:619-621 '63

1. I. interni klinika (prednosta: prof. MUDr. F.Cernik) Karlova universita v Hradci Kralove.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

ERBEN, Josef, GROH, Jindrich, LOMSKY, Radovan; SVAB, Jozef; HEROUT, Vladimir; NOZICKA, Zdenek; KVASNICKA, Jiri; BARTOS, Vladimir; KVASNICKOVA, Eva. Technicka spoluprace :SCHROFLOVA, A.

Primary aldosteronism in adrenal cortex carcinoma. II. Sborn. ved. prac. lek. fak. Karlov. univ. (Hrad. Kral.) 6 no.5: suppl.:601-607 '63

1. I. interni klinika (prednosta: prof. MUDr. F. Cernik); Urologicka klinika (prednosta: doc. MUDr. Jozef Svab); Patologicko-anatomicky ustav (prednosta: DrSc. prof. MUDr. A. Fingerland) Karlova universita v Hradci Kralove.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

JEBAVY, Zdenek; BARTOS, Vladimir; NERAD, Vladimir; SKAUNIC, Vladimir; FIXA, Bohumil; KOMARKOVA, Olga; SAZMOVA, Vera; HRADSKY, Miklas.

Analysis of salivary secretion and some electrolytes in the saliva in relation to age. Sborn. ved. prac. lek. fak. Karlov. univ. (Hrad. Kral.) 6 no.5:suppl.:609-618 '63

1. Stomatologicka klinika (prednosta: prof. MUDr. L.Sazama,CSc.); I. interni klinika (prednosta: prof. MUDr. F.Cernik) a II. interni klinika (prednosta: prof. MUDr. V. Jurkovic), Karlova Universita v Hradci Kralove.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

ERBEN, J.; BELOBRADKOVA, J.; STEFAN, H.; GROH, J.; BARTOS, V.; KRCH, V.; KVASNICKA, J.; NAVRATIL, P. KLAZAROVA, M., technicka spoluprace; SCHROFLOVA, A., technicka spoluprace.

Hemodialysis in the treatment of acute uremia (III)
Cesk pediat 18 no. 3:193-199 '63.

1. Interni, detska, chirurgicka a urologicka klinika lekarske fakulty KU v Hradci Kralove; prednostove: doc. dr. F. Cernik, prof. dr. J. Blecha, prof. dr. J. Prochazka, doc. dr. J. Svab
(UREMIA) (DIALYSIS) (HYPERKALEMIA) (KIDNEY, ARTIFICIAL)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BRZEK, Vladimir; JURIN, Ivan; BARTOS, Vladimir; BOBEK, Vladimir

Determination of the lymph pressure in the thoracic duct. Sborn. ved. prac. lek. fak. Karlov. Univ. 9 no.1:133-138 '64.

1. II.chirurgicka klinika (prednosta: prof. MUDr. J. Prochazka, DrSc.) a I. interna klinika (prednosta: prof. MUDr. F. Cernik) Karlovy University v Hradci Kralove.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

KRCH, Vaclav; ERBEN, Josef; GROH, Jindrich; BARTOS, Vladimir; KVASNICKA, Jiri; BALCAR, Zdenek

The course of hemodialysis in elderly patients with acute renal failure. Sborn. ved. prac. lek. fak. Karlov. Univ. 9 no.1:397-408 '64.

1. I. interni klinika (prednosta: prof. MUDr. F. Cernik), Karlovy University v Hradci Kralove.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

GROH, J., HRZEK, V., BARTOS, V.

I. Medical Clinic and Surgical Clinic of Charles University, Hradec Kralove, Czechoslovakia

Berlin, Acta Biologica et Medica Germanica, No.1, 1966, pp 30-33.

"The Electrolytic Composition in Lymph of the Ductus Thoracicus of Man"

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

KVASNICKA, Jiri; KVASNICKOVA, Eva; GROH, Jindrich; DANICKOVA, Zdena; BARTOS, Vladimir; ERBEN, Josef. Techn. spoluprace VAVROVA, Eva.

Mineral and water changes during the aging process. I. Methods of determination of minerals in erythrocytes. Normal values. Differences between the normal values in women and men. Sborn. ved. prac. lek. fak. Karlov. Univ. 9 no.1:369-374 '64.

Mineral and water changes during the aging process. II. Mineral and water changes in erythrocytes in different age groups. Ibid.:375-381

1. I. interni klinika (prednosta: prof. MUDr. F. Cernik) Karlovy University v Hradci Kralove.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOS, Vladimir

Diagnosis of chronic recurrent pancreatitis. Sborn. ved. prac. lek. fak. Karlov. univ.: Suppl. 8 no.1:27-52 '65.

1. I. interni klinika (prednosta prof. MUDr. F. Cernik).

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOS, Vladimir; BRZEK, Vladimir; GROH, Jindrich

Secretin-induced changes in the amylase level of the thoracic duct depending on age. Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no. 4:467-471 '65

1. I. interni klinika (prednosta: prof. MUDr. F. Cernik) a Chirurgicka klinika (prednosta: prof. MUDr. J. Prochazka, DrSc.).

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

SVATOS, Antonin; BRZEK, Vladimir; BARTOS, Vladimir

Endogenous activator of the lipolytic activity of the blood serum. Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no.4: 473-476 '65.

1. Vyzkumny ustav pro farmacii a biochemii, Praha (reditel: dr. inz. O. Nemecek, DrSc.); Chirurgicke klinika (prednosta: prof. MUDr. J. Prochazka, DrSc.) a I. interni klinika (prednosta: prof. MUDr. F. Cernik), Karlovy University v Hradci Kralove.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOS, V.; SVATOS, A.

Concentration of anticholecystokinin in the serum of healthy and cholecystectomized persons. Cesk. gastroent. vyz. 19 no.6: 331-334 S '65.

1. I. interni klinika lekarske fakulty Karlovy University v Hradci Kralove (prednosta prof. dr. F. Cernik) a Vyzkumny ustav pro farmacii a biochemii v Praze (reditel dr. inz. O. Nemecek, DrSc.).

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOS, Z.

Effect of lowered environmental temperature on the stability of the body temperature of hibernating animals during the summer. Cesk.fysiol. 9 no.3:218-219 My '60.

1. Zoologicky ustav KU, Praha.
(HIBERNATION physiol)
(BODY TEMPERATURE physiol)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

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2

KEIL, B.; KEILOVA H.; BARTOSEK, I. CSSR

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Science, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 12, 1962, pp 2940-2955

"On Proteins. LXXX. Column Gradient Extraction of Proteins"

3

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

KEIL, B.; KEILOVA, H.; BARTOSEK, I.

On proteins. Part 80: Column extraction of proteins. Coll Cz Chem 27 no.12:2940-2945 D '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

CZECHOSLOVAKIA

CEKAN, Z; TICHA, M; BARTOSEK, I

Research Institute for Natural Drugs, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 5, May 1966, pp 2068-2072

"Hydrolysis of esters of androstane derivatives by rat liver homogenate. Relationship between the rate of hydrolysis and structure"

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

ACC NR: AP7010704 SOURCE CODE: CZ/0038/66/000/010/0386/0388

AUTHOR: Bartosek, Jiri; Jelinek, Vit

ORG: Ustav uzite geofyziky, Brno (Institute of Applied Geophysics)

TITLE: Contribution to the error theory in low activity measurements

SOURCE: Jaderna energie, no. 10, 1966, 386-388

TOPIC TAGS: geophysics, radioactivity measurement, error

SUB CODE: 18,08

ABSTRACT: A formula was obtained for calculating the relative standard error in low-activity measurements. The effect of optimum total measuring time on the specimen and the background measurements was evaluated. Optimum measuring time was found for a series of specimens. Orig. art. has: 1 figure, 24 formulas and 1 table. Paper presented by J. Klumpar. [NA]

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEK, J.

(36)

Prague, Collection of Czechoslovak Chemical Communications, Vol 27, No 4, April 1962 (continued)

9. "Separation Methods for Natural Products. Part II. Enriched Diamond Separation and Double Withdrawal," [illegible], J. PITRA and V. PROCHAZKA, Research Institute of Natural Drugs, Prague; pp 832-842 (English article).

10. "Synthesisation Experiments in the Group of Hypotensive Alkaloids. Part XXXI. The Obtaining of the Alicyclic Component for the Synthesis of the Racemic 19-Methyl Analogue of Deserpidin," J. [illegible], B. KAKAC and L. [illegible], Research Institute of Pharmacy and Biochemistry, Prague; pp 843-855.

11. "Synthesisation Experiments in the Group of Hypotensive Alkaloids. Part XXXII. On the Synthesis of the Racemic 19-Methyl Analogue of Deserpidin," L. [illegible], B. KAKAC and J. [illegible] of the Research Institute of Pharmacy and Biochemistry, Prague; pp 857-871.

12. "Cardiac Glycosides of Asclepias syriaca L. Part I. Isolation of the Cardiotonic Glycosides," L. [illegible], S. BAUER, O. BAUEROVA and D. SIKL of the Chemical Institute at the Slovak Academy of Sciences, Bratislava; pp [illegible].

13. "On Proteins. Part LXVIII. Structure of Peptides Obtained by Peptic Hydrolysis of Chymotrypsinogen," V. KOSTKA, B. [illegible], J. [illegible] and F. SORM of the Institute of Organic Chemistry and Biochemistry, Prague; pp 882-894 (English article).

14. "Cardiac Glycosides of Asclepias syriaca L. Part II. The Structure of Syriogenin and of Its Glycosides," L. [illegible], S. BAUER, O. BAUEROVA and D. SIKL of the Department of the Biochemistry of Saccharides, Chemical Institute of the Slovak Academy of Sciences, Bratislava; pp 895-902.

15. "Nucleic Acid Components and Their Analogues. Part XVIII. Synthesis of Anomeric 9-(2-Deoxy-1-d-Glucosyl)adenines and of Their Anhydroderivatives," J. J. K. NOVAK and F. SORM of the Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 902-915 (English article)

15. "A Note on the Investigation of the Antimicrobial Activity of 9-(Deoxy-1-d-Glucosyl)adenine," J. [illegible], J. [illegible] and F. SORM, Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 906-907 (English article).

17. "Study of the Decomposition of Sodium Ferrate Solutions," J. [illegible] of the Slovak Institute of Technology, Bratislava; pp [illegible]

2/[illegible]

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEK,V.

"Reactor analysis" by R.V.Meghreblian and D.K.Holmes. Reviewed by V.Bartosek. Jaderna energie 8 no.2:72 F '62

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

REHOR, Jan; BARTOS, Vladimir; FIEDLEROVA, Dagmar

Electrocardiographic changes in acute and chronic recurrent pancreatitis. Cas.lek.cesk 100 no.4:119-[illegible] 27 Ja '61.

1. I.interni klinika lekarske fakulty KU v Hradci Kralove, prednosta prof. MUDr. Jan Rehor.

(PANCREATITIS diag) (ELECTROCARDIOGRAPHY)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

MOZES, G. (Bucuresti); LAPEDATU, E. (Bucuresti); ZAHARIA, C. (Bucuresti, FRIEDMANN, A. (Bucuresti); ARABIAN, L. (Bucuresti); RADU, C. (Bucuresti); BARTOS, V. (Bucuresti); DEDULESCU, L. (Bucuresti)

New types of selenium rectifying cells. Electrotehnica 10 no.2/3:72-86 F-Mr '62.

1. Colectiv de la Institutul de Cercetari Electrotehnice (for Mozes, Lapedatu, Zaharia, and Friedmann).

2. Colectiv de la uzinele "Grigore Preoteasa" (for Arabian, Radu, Bartos, and Dedulescu).

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

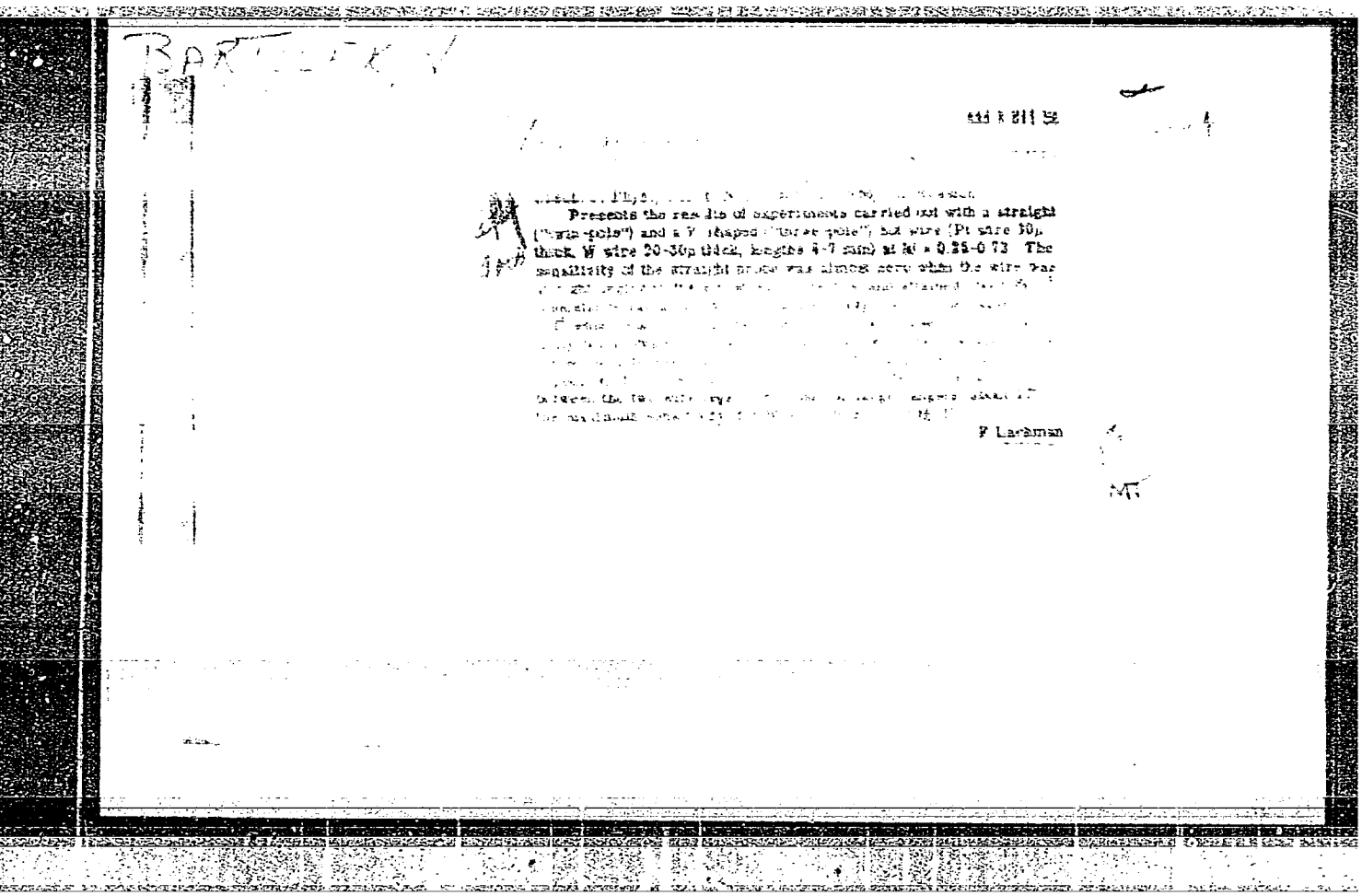
JELINEK, Vit; BARTOSEK, Jiri

Stable single-channel amplitude analyser. Jaderna energie 8 no.7:245-248 Jl '62.

1. Ustav uzite geofyziky, Brno.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3



Presents the results of experiments carried out with a straight ("wire-probe") and a V (shaped "wire probe") Pt wire (Pt wire 50μ thick, W wire 20-30μ thick, lengths 4-7 mm) at Ni = 0.35-0.73. The sensitivity of the straight probe was almost zero when the wire par

P Lavelman

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEK, V.

Experimental basis for measuring the speed and the direction of air flow by a hotwire instrument. p. 529. (CESKOSLOVENSKY CASOPIS PRO FYSIKU, Vol. 6, No. 5, Sept 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEK, V.

SCIENCE

Periodicals: CESKOSLOVENSKY CASOPIS PRO FYSIKU. Vol. 8, No. 4, 1958

BARTOSEK, V. Equation for the colling of a body in a stream of compressible fluid. p. 450.

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

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

CZECHOSLOVAKIA/Nuclear Physics - Nuclear Technology and Power. E

Abs Jour : Ref Zhur Fizika, No 12, 1959, 26975

Author : Rocek, Jindrich; Bartosek, Vaclav

Inst : Institute of Nuclear Physics, Czechoslovak Academy of Sciences

Title : Physical Data for the Design of Homogeneous Reactor with Light and Heavy Water

Orig Pub : Jaderna energie, 1958, 4, No 12, 365-371

Abstract : In connection with the project of a homogeneous ten-megawatt reactor, a theoretical investigation was made of the dependence of the critical parameters of the active zone on the composition of the fuel suspension, and also of the long-term changes in the composition of suspension during the reactor operation.
-- P.P. Sosenko

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

CZECHOSLOVAKIA/Atomic and Molecular Physics. Heat. D

Abs Jour : Ref Zhur Fizika, No 8, 1959, 17650

Author : Bartosek, Vaclav

Inst : Vyzkumny a zkusebni letecky ustav, Prague, Czechoslovakia

Title : Cooling of an Incandescent Wire in a Gas Stream with a Speed Lower Than the Velocity of Sound

Orig Pub : Ceskosl. casop. fys., 1958, 8, No 5, 554-565

Abstract : An experimental investigation was made of the temperature equilibrium of thin tungsten wires, placed in air stream having a velocity V/a = λ (V and a are the velocities of the air stream and of sound respectively), and a ratio $T_p/T_0 = 1 - \ldots\lambda$ is obtained, where the coefficient $\ldots$ depends on the parameter of the wire, T_p is the equilibrium temperature, and T_0 is the temperature of the

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

CZECHOSLOVAKIA/Atomic and Molecular Physics - Heat. I

Abs Jour : Ref Zhur Fizika, No. 8, 1959, 17650

isentropic slowed-down stream. For heat removal from the incandescent wire, the applicability of a modification of the King formula (King, L.V., Philosophical Transactions, Royal Society, London, 1914, A 214, 373) up to speeds of 170 meters per second ($\lambda = 0.53$). Various methods of measuring the speed and fluctuations of the parameters of the air stream with velocity below that of sound are considered.

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTSEK, V.

The P 45 pneumatic jet loom.

p. 698 (Strojirenstvi. Vol. 7, no. 9, Sept. 1957. Praha, Czechoslovakia)

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

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEK, V.

"A. D. Galanin's Theory of Nuclear Reactions with Thermal Neutrons; a book review.

p. 31 (Jaderna Energie, Vol. 4, no. 1, Jan. 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC,Vol. 7, No. 6, June 1958

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

AUTHOR: Bartošek, Václav CZ/37-58-5-6/19

TITLE: Cooling of a Hot Wire in a Subsonic Gas Flow (Ochlazování žhaveného drátku v podzvukovém proudu plynu)

PERIODICAL: Československý časopis pro Fysiku, 1958, Nr 5, pp 554-565 (Czech)

ABSTRACT: The author investigated experimentally the relation between the equilibrium temperature of thin tungsten wires at subsonic speeds of an air stream by means of a test rig, sketches of which are shown in Figs.1-3. It was found that a thin wire exposed to a subsonic air flow will assume an equilibrium temperature which depends on the speed coefficient λ:

$$T_{eq} = T_o (1 - \eta\lambda)$$

whereby the coefficient η depends on the wire diameter, equalling 0.0516 ± 0.0014 for 10μ dia. wire and 0.0857 ± 0.0080 for 20μ dia. wire. The experimentally determined relation for the quantity of heat carried away from the wire per unit of length can be expressed for the range $\lambda = 0.25$ to 0.53 by means of the relation:

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

Cooling of a Hot Wire in a Subsonic Gas Flow

$$Nu = \beta \sqrt{Re} + \gamma;$$

where Nu is the Nusselt number for a cylinder, Re the Reynold number, β and γ are constants. Using the method of the heated wire it is possible by means of Eq.(12), p 562, to determine the temperature fluctuations and by means of Eq.(24), p 564, it is possible to determine the speed. This paper is a part of Candidate Dissertation work carried out at the Aircraft Experimental and Test Institute, Prague. Acknowledgments are made to Dr. Zb. Janour for his useful advice and to the official opponents, Prof. Doctor Engineer V. Smolař and Doc.Dr. M. Brdička for their critical comments. There are 6 figures and 5 references, 2 of which are Czech, 1 Soviet, 1 English, 1 German.

Card 2/2

ASSOCIATION: Výzkumný a zkušební letecký ústav, Praha
(Aircraft Experimental and Test Institute, Prague)
(At present employed by Institute of Nuclear Physics, Czech Ac.Sc., Prague)

SUBMITTED: December 9, 1957

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

CZECHOSLOVAKIA/Atomic and Molecular Physics - Heat.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 12814

Author : Bartosek, Vaclav
Inst :
Title : Equation for Cooling of a Body in a Flow of Compressible Liquid.

Orig Pub : Ceskosl. casop. Fys., 1958, 8, No 4, 450-452.

Abstract : No abstract.

Card 1/1

BARTOSEK, V.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

CZECHOSLOVAKIA/Atomic and Molecular Physics - Heat.

Abs Jour : Ref Zhur Fizika, No 1, 1960, 848

Author : Bartosek, Vaclav
Inst :
Title : The Cooling of an Incandescent Wire in a Stream of Gas with Velocity Below the Velocity of Sound

Orig Pub : Chekhosl. fiz. zh., 1958, 8, No 6, 716-726

Abstract : See Referat Zhur Fizika, 1959, No 8, 17650.

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEK, Vaclav

"The theory of nuclear reaction with thermal neutrons" by A.D. Galanin. Reviewed by Vaclav Bartosek. Jaderna energie 4 no.1:31-32 Ja '58.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEK, V.

"Transformation of atomic nuclei" by V. Gol'danskij and E. Lejkin. Reviewed by V. Bartosek. Jaderna energie 8 no.4:121 Ap '62.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEK, Vaclav

Reactor transient states in exchanging constant speed fuel elements. Jaderna energie 9 no.3:74-77 Mr '63.

1. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Rez.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEK, V.

Symposium on the physics of the graphite moderated reactors.
Jaderna energie 9 no.1:28-31 Ja '63.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEK, Vaclav

Macrocombustion in the system of natural uranium and heavy water. Jaderna energie 9 no.7:234 Jl '63.

1. Ustav jadernehc vyzkumu, Ceskoslovenska akademie ved, Rez u Prahy.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARICHER, V.

L 25121-65 EWT(m)/EPF(c)/EPF(n)-2/EPR Pr-4/Ps-4/Pu-4

ACCESSION NR: AP4047434 Z/0038/64/000/010/0357/0364

AUTHOR: Bartosek, V. (Bartoshek, V.); Hron, M. (Khron, M.); Lelek, V.; Neprasova, M. (Neprashova, M.)

TITLE: Some physical problems in the burn-up of uranium in heavy-water reactors 19

SOURCE: Jaderna energie, no. 10, 1964, 357-364

TOPIC TAGS: uranium burn up, heavy water reactor, fuel element refueling, fuel shuffling, heavy water reactor, multiplication constant, neutron flux

ABSTRACT: This article reports on the investigation of the dependence of the multiplication constant on attainable uranium burn-up under steady-state reactor conditions during the continuous refueling of whole elements and during fuel shuffling in the direction of the axis of three kinds: 1) all fuel moving in one direction, 2) half of the fuel moving in the opposite direction, and 3) back, i.e., the fuel returns after reaching the second base. The results of the calculations are analyzed with the aid of computers, i.e., the local multiplication constant which provides the initial information for the computation of the overall fuel burn-up during operation with continuous refueling of whole elements combined

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

L 25121-65

ACCESSION NR: AP4047434

with fuel shuffling is examined; the most efficient methods for reactor transition from the initial state to the steady state are also described. The technical and economic parameters which find application in the various methods of reactor transition with continuous refueling of elements are investigated. In all, eight transition regimes are discussed. In the analysis the authors limit themselves to the zone in which the neutron flux is unchanging in space, and it is assumed that refueling of an element in one fuel channel causes only a small jump in the reactivity of the whole system. Orig. art. has: 2 figures, 1 table, and 37 formulas.

ASSOCIATION: Ústav jaderného výzkumu ČSAV, Řež (Institute of Nuclear Physics of the Czechoslovak AS)

SUBMITTED: 00 ENCL: 00 SUB CODE: NP

NO REF SOV: 003 OTHER: 003

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEK, Vaclav; LELEK, Vladimir

Burning out of natural uranium during the axial movement of fuel in the reactor. Jaderna energie 10 no.8:291 Ag '64.

1. Institute of Nuclear Research, Czechoslovak Academy of Sciences, Rez.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEK, Vaclav; HRON, Miroslav; LELEK, Vladimir; NEPRASOVA, Marie

Some physical problems of uranium irradiation in heavy water reactors. Jaderna energie 10 no.10:357-364 O '64.

1. Institute of Nuclear Research of the Czechoslovak Academy of Sciences, Rez.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSHEK, V. [Bartosek, V.]; LELEK, V.

Natural uranium burn-up during its axial motion in a reactor.
Atom. energ. 17 no.5:380-384 N '64. (MIRA 17:12)

1. Institut yadernykh issledovaniy Chekhoslovatskoy Akademii nauk, Praga-Rzhezh.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

L 18526-66 EWT(m)/ETC(f)/EWG(m)/EPF(n)-2 WW

ACC NR: AP6010226 SOURCE CODE: CZ/0038/65/000/004/0143/0143

AUTHOR: Bartosek, Vaclav

ORG: Institute of Nuclear Research, CSAV, Rez (Ustav jaderneho vyzkumu CSAV)

TITLE: Transient states of a nuclear reactor during refueling

SOURCE: Jaderna energie, no. 4, 1965, 143

TOPIC TAGS: nuclear reactor, reactor fuel element

ABSTRACT: INR Report No. 1163/64, published in Jaderna Energie only as Czech and English summaries (modified): The article describes analyses of the mutual dependences of individual parameters during refueling from the initial state (when all fuel elements are fresh) to the continuous refueling of exhausted elements (with elements at different stages of burn-up). The following in particular are investigated: 1. The total duration of the transient state of the reactor; 2. The required radiation stability of the elements; 3. The attainable average utilization of fuel; 4. The requisite refueling rate. The article contains a survey of the following transient states: 1. Equilibrium transition; 2.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

L 18526-66
ACC NR: AP6010226

Transition with delayed refueling; 3. Variable refueling period; 4. Combined operation; 5. Transition with constant refueling rate and with reactivity saving; 6. Transition with constant reactivity and reactivity saving; 7. Combined transition with reactivity saving; 8. Transition with quadratic reactivity dependence. [JPRS]

SUB CODE: 18 / SUBM DATE: none

Card 2/2 IC

UDC: 621.039.514.25: 621.039.516.2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEVICH, N.K.; ZHIVAYKIN, L.Ya.

Role of cooling elements in the increased operation rate of ovens for pulverizing the roasting of pyrites. Sbor. mat. po obm. opyt. NIUIF no.12:1-7 '59. (MIRA 16:12)

1. Zavod "Maardu" (for Bartosevich). 2. Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut (for Zhivaykin).

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEVICH, N.K.

"Chemistry and technology of selenium and tellurium" by A.A.Kudriavtsev. Reviewed by N.K.Bartosevich. Khim.prom. no.3:227-228 Mr '62. (MIRA 15:4)
(Selenium) (Tellurium) (Kudriavtsev, A.A.)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSEVICH, N.K.; ZHUKOV, P.I.; MOROZOV, I.F.; KUDRYAVTSEV, A.A.

Sulfide method for producing selenium and tellurium. Zhur. VKHO 8 no.5:584 '63. (MIRA 17:1)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

L 17890-63 EWP(q)/EWT(m)/BDS AFFTC RDW/JD
ACCESSION NR: AP3003763 S/0080/63/036/006/1169/1174

AUTHORS: Vol'fkovich, S. I.; Kondrat'yev, N. N.; Bartosevich, N. K.; Morozov, I. P.; Panasova, N. I.

TITLE: Separation of selenium from nitrosylsulfuric acid

SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 6, 1963, 1169-1174

TOPIC TAGS: selenium, nitrosylsulfuric acid, sulfur

ABSTRACT: A number of various methods of analysis have been examined for the determination of selenium in sulfur-selenium concentrate. The extraction of selenium was carried out with sulfur at a temperature of 130C, and the precipitation was always complete. From the laboratory experiments the following conclusions were made: (i) the extraction of selenium by means of elemental sulfur from nitrosylsulfuric acid is complete if the temperature is higher than 120C; (ii) the sulfur-selenium concentrate precipitates and quickly falls to the bottom. The sulfuric acid in this case can be decanted; (iii) when using elemental sulfur in the above precipitation, nitrosylsulfuric acid is not contaminated with impurities as is the case when other reducing agents are used; (iv) with an increase in temperature, the process of reducing selenium compounds increases; (v) for

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

L 17890-63
ACCESSION NR: AP3003763

the separation of selenium from nitrosylsulfuricacid, it is sufficient to add only 0.2-0.3% of sulfur based on the total weight of acid; (vi) the reduction process of selenium compounds and the separation of selenium with natural or "gaseous" sulfur takes place quicker than with pure sulfur. Orig. art. has: 4tables and 1 formula.

ASSOCIATION: Moskovskiy gosudarstvenny*y universitet i Shchelkovskiy khimicheskiy zavod (Moscow State University and Shchelkovo Chemical Works)

SUBMITTED: 03Sep63 DATE ACQ: 07Aug63 ENCL: 00

SUB CODE: CH, EL NO REF SOV: 005 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

L 47747-65 EWT(m)/EWG(m)/EWP(t)/EWP(b) IJP(c) RDW/JD

21
B

ACCESSION NR: AP5010921 UR/0286/65/000/007/0104/0104

AUTHOR: Kudryavtsev, A. A.; Ryabova, R. I.; Ustyugov, G. P.; Bartosevich, N. K.; Morozov, I. F.; Zhukov, P. I.; Gerasimov, V. S.

TITLE: Method of refining tellurium. Class 40, No. 169793

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 104

TOPIC TAGS: tellurium, tellurium refining, high purity tellurium

ABSTRACT: This Author Certificate introduces a method of refining tellurium up to 99.9999% purity. Commercial grade tellurium is purified by distillation, first in hydrogen at 700C and then in a vacuum of 1 mm Hg at a temperature gradually changing from 800C in the still to 500C in the condenser. [AZ]

ASSOCIATION: none

SUBMITTED: 190ct62 ENCL: 00 SUB CODE: MM

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4005

Card 1/1

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

1. BARTOSEVICH, S. S., Eng.

2. USSR (600)

4. Steam Boilers

7. Complicated lifting of a boiler, Elek. sta., 24, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSH, A. (Praga)

Dermatoglyphs on a forearm stump. Ortop., travm. protez. 17 no.5: 23-26 S-O '56. (MLRA 10:1)

1. Okruzhnoy shkol'nyy inspektor

(AMPUTATION STUMPS
dermatoglyph on forearm stumps after intense use in work)
(FINGERPRINTS,
same)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

ISMAILOV, I.M., kand.tekhn.nauk; MAKHMUDOV, A.U., inzh.; KLEPIKOV, V.G., inzh.; Prinimali uchastiye: GORYUNOVA, N.P.; VORONINA, L.D.; BARTOSH, F.K.; SOLDATKIN, P.S.; KORNEYCHUK, G.P.; KHAMIDOV, N.Kh.; SHUL'ZHENKO, I.P.

Method of grist conditioning according to moisture. Masl.-zhir.prom. 28 no.11:37-39 N '62. (MIRA 15:12)

1. Sredneaziatskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta zhirov (for Ismailov, Goryunova, Voronina, Bartosh). 2. Kattakurganskiy maslozhirovoy kombinat (for Makhmudov, Soldatkin, Korneychuk, Khamidov, Shul'zhenko).
(Oils and fats)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

TIKHAVSKIY, I.; BARTOSH, I.

Operations of a Czechoslovakian furniture factory. Der.prom. 8 no.1:29-30 Ja '59. (MIRA 12:1)
(Czechoslovakia--Furniture industry)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSH, N. I.

The employment of motor trucks at loading stations. Moskva, Gos. transp. zhel-dor. izd-vo, 1950. 42 p. (50-55128)

T1223.B3

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

GOKHBOM, Ye.N., kand.tekhn.nauk, dots.; BARTOSH, N.T., inzh.

"Establishing time standards for the mechanical loading and unloading of cars" by A.V.Lenskii. Reviewed by E.N.Gokhbom, N.T. Bartosh. Vest.TSNII MPS 19 no.1:62-63 '60. (MIRA 13:4)

1. Leningradskiy institut inzhenerov zheleznodorozhnogo transporta imeni akad. V.N.Obraztsova i Transportnoye upravleniye Leningradskogo soveta narodnogo khozyaystva.
(Bibliography--Loading and unloading)
(Lenskii, A.V.)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSH, N.T., inzh.; STRUKOV, A.V.

Mechanization of loading and unloading operations in industrial transportation. Mekh.i avtom.proizv. 15 no.8:24-28 Ag '61. (MIRA 14:9)

(Loading and unloading—Technological innovations)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

ANNINSKIY, Boris Aleksandrovich, kand. tekhn. nauk, dots.; SHARANOVICH, Petr Antonovich, inzh.; BARTOSH, N.T., inzh., retsenzent; GERASIMOV, V.G., inzh., red.; VASIL'YEVA, V.P., red. izd-va; PETERSON, M.M., tekhn. red.

[Overall mechanization of the unloading of bulk materials; machinery and devices for basic and auxiliary work] Kompleksnaia mekhanizatsiia vygruzki navalochnykh gruzov; mashiny ustroistva dlia osnovnykh i vspomogatel'nykh rabot. Moskva, Mashgiz, 1962. 283 p. (MIRA 15:8)
(Loading and unloading--Equipment and supplies)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSH, N.T.; MOGILEVSKIY, L.D.; SHARANOVICH, P.A.; VOROSHILOV, B.P., inzh., retsenzent; GERASIMOV, V.G., inzh., red.; LEYKINA, T.L., red. izd-va; BARDINA, A.A., tekhn. red.

[Manual for the operator of machinery used in loading and unloading] Spravochnik mekhanizatora pogruzochno-razgruzochnykh rabot. Moskva, Mashgiz, 1963. 419 p. (MIRA 16:8)
(Loading and unloading--Equipment and supplies)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BELOKRINITSKIY, Valeriy Viktorovich; BARTOSH, N.T., red.

[Technological bases for the mechanization and automation of conveying, loading, unloading and warehouse work] Tekhnologicheskie osnovy mekhanizatsii i avtomatizatsii transportnykh, pogruzochno-razgruzochnykh i skladskikh rabot. Leningrad, 1964. 30 p. (MIRA 17:12)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSH, Nikolay Tarasovich; GERASIMOV, V.G., red.

[Organization and mechanization of storeroom operations in machinery plants] Organizatsiia i mekhanizatsiia skladskikh rabot na mashinostroitel'nykh predpriiatiiakh. Leningrad, 1964. 35 p. (MIRA 18:3)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

COUNTRY : USSR
CATEGORY : Plant Diseases - Cultivated Plants

ABS. JOUR. : RZBiol., No. 19 1958, No. 87345

AUTHOR : Zemanek, I.; Bartosh, I.
INST. :
TITLE : New Methods of Control of Barley Smut

ORIG. PUB. : Vestn. s.-kh. nauki, 1958, No 1, 128-133

ABSTRACT : Because of the widespread occurence of barley smut in Czechoslovakia, the Prague Institute of Plant Breeding had conducted during 1955-1956 tests of the action of 34 different chemicals on mycelia of Ustilago-nuda in pure cultures (laboratory experiments) and on seeds infected with the fungus (field tests). No direct correlation could be detected between efficacy of the preparations agains fungus culture and as seed disinfectants. Chloranil was found to be the most effective agent, at a concentration of 0.05%, applied to the seeds over a period of 48 hours, as a solution, at 20-22°. Good results were obtained on steeping the seeds in an

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

Country : USSR
Category : Farm Animals. Q
Cattle.
Abs. Jour : Ref Zhur-Biol., No 21, 1958, 96868

Author : Bartosh, S.; Bulanek, Ya.; Khatleova, A.;*
Institut. :
Title : The Effect of Compulsory Exercise and Pasturage on the Metabolism of Calves.

Orig Pub. : Vestn. s.-kh. nauk, 1958, 2, 110-118

Abstract : Experiments have shown that raising on pasture and compulsory exercise have a favorable effect upon improving the respiratory, cardio-vascular and biochemical systems which are linked to the citric acid cycle.

Card: 1/1

*Kafka, A.

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APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSH, T.

GENERAL

PERIODICALS: VESTIS No. 2, 1958

BARTOSH, T. Reestablishment of paleogegraphical conditions on the example pf Krivo-zhye deposits of lignite. In Russian. 139 p.

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

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSH, YE I HANOV, A.

42546. Organizovat' Rabotu parovozov Po grafiku oborota. Zh-D transport, 1948, No. 11, S. 28-37.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSH, Yevgeniy Tarasovich, kandidat tekhnicheskikh nauk; SALENKO, S.V., redaktor; CHITROV, P.A., tekhnicheskiy redaktor.

[Conical traction of locomotives; basic principles and calculation characteristics] Konusnaia tiaga parovozov; osnovnye printsipy i raschetnye kharakteristiki. Moskva, gos. transp. zhel-dor. izd-vo, 1955. 162 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.107). (MLRA 9:5)

(Locomotives)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSH, Ye.T., kandidat tekhnicheskikh nauk.

In the academic council of the Central Scientific-Research Institute of the Ministry of roads, Railroads and Waterways. Tekh.zhel.dor.15 no.2:31 Mr '56. (MLRA 9:7)
(Locomotives)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSH, Ye.T., kandidat tekhnicheskikh nauk; YEVTUSHENKO, A.M., kandidat tekhnicheskikh nauk; SHEVCHENKO, L.A., inzhener.

Gas turbine locomotive with two-stage fuel combustion. Vest. TSNII MPS 15 no.1:3-8 Ag '56. (MLRA 9:12)

(Gas turbine locomotives)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

BARTOSH, Yevgeniy Tarasovich, kandidat tekhnicheskikh nauk; FREYMAN, V.G., inzhener, redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor

[Gas turbine locomotives] Gazoturbinnye lokomotivy. Moskva, Gos. transp. zhel-dor. izd-vo, 1957. 100 p. (MLRA 10:4)
(Gas turbine locomotives)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

Bartosh, Yevgeniy Tarasovich

PHASE I BOOK EXPLOITATION 323

Glagolev, Nikolay Matveyevich, Professor; Kurits, Aleksandr Ariyevich; Vodolazhchenko, Vitaliy Vasil'yevich; and Bartosh, Yevgeniy Tarasovich, Candidates of Technical Sciences

Teplovoznyye dvigateli i gazovyye turbiny (Diesel and Gas-turbine Locomotive Engines) Moscow, Transzheldorizdat, 1957. 463 p. 10,000 copies printed.

Ed.: Girshberg, N. M., Candidate of Technical Sciences; Tech. Ed.: Bobrova, Ye. N.

PURPOSE: This book is approved by the USSR Ministry of Higher Education as a textbook for institutes of railroad transportation. It may also be useful to engineers specializing in internal combustion engines, and gas turbines.

COVERAGE: The book deals with basic theory and design in the construction of the modern diesel and gas-turbine locomotives. The following subjects are discussed: working processes and cycles, engine dynamics, principle of work, economy and performance characteristics, automation of control systems, engine output control, locomotive operation, and safety. In addition to these topics the author also gives a brief history of the development and uses

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APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730012-3

of internal combustion engines and gas turbines. The author claims that gas-turbine engines require less time to develop full power capacity than steam turbine engines. He also claims that aircraft gas turbines are able to develop full power capacity within 1.5 to 2 minutes, and that gas turbines in the aircraft industry are fully understood and are widely used on many types of aircraft. According to the author, the 1956 statistics show that Soviet gas turbine engines, not considering those used in aircraft, are able to develop power of about one million hp. A special chapter is devoted to discussion of free-piston gasifiers and prospects for their development and use. The author states that the Voroshilov Diesel Engine Locomotive Plant has developed a free piston-and-turbine compound locomotive engine with a capacity of 6,000 hp. and an efficiency of 29.4 percent. The book contains numerous tables, graphs, diagrams and detail drawings of various types of Soviet and foreign internal combustion engines and gas turbines. There are 84 references of which 82 are Soviet and 2 English.

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BARTOSH, YE.T.

AUTHORS: Bartosh, Ye.T., and Meylikhov, M.Ye. (Moscow) 47-4-2/20

TITLE: Construction of Locomotives During the Sixth 5-Year Plan (Lokomotivostroyeniye v shestoy pyatiletke)

PERIODICAL: Fizika v shkole, 1957, No 4, pp 9-28 (USSR)

ABSTRACT: The authors point out that at the beginning of the Sixth 5-Year Plan the freight turnover on the Soviet railroads by means of electric and Diesel locomotives amounted to only 14%. The plan provides for an increase of 40 - 45%. For this purpose the railroads will be supplied with at least 2,000 electric and 2,250 double-section Diesel locomotives during 1956 - 1960. The construction of new powerful gas-turbine locomotives is also planned. They indicate that fuel is the most important component of the net cost of freight transportation. This factor, the kind of fuel and its availability will have to be taken into consideration when comparing the various types of locomotives. After describing in detail the construction, the working process and the economic factors of the locomotives used at present, the authors arrive at the conclusion that the steam engine's efficiency is only 4 - 5%, while that of the Diesel is 4 - 6 times higher. The authors compare the kind of fuel used by these engines and examine the possibility of

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utilizing solid fuel for Diesel locomotives by gasifying it in the locomotives or at gas compressor stations with subsequent delivery to the engines in cylinders. But the efficiency of this type of locomotive is about 22% lower than the normal Diesel engines, and they require considerable investment of capital. Referring to the gas-driven turbine locomotives, of which there are only 30 in the world, the article states that their main advantage is the high specific capacity and the possibility to construct powerful engines of small size. They can work on liquid, solid and gaseous fuel. In 1955, Professor N.I. Belokon' suggested a gas turbine engine with a so-called double-stage fuel burning. His scheme provided a series connection of the air boiler working on solid fuel with the combustion chamber for the liquid fuel. The air, going from the compressor to the gas turbine, is preheated to a temperature of 575 - 600° C in the air tank and is later heated by liquid fuel in the combustion chamber to 720 - 750° C. It enables the economic use of solid fuel and ensures favorable conditions for the turbine blades. The efficiency of turbine locomotives run on liquid fuel is at present 16 - 17%, on solid fuel 14.5 - 15.5% and with the so-called "non-shaft piston gas generators" 28 - 30%. Dealing with electric locomotives the authors state

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that the efficiency is considerably higher if the energy is supplied by hydrostations as compared with energy from heat electric stations. The short analysis shows that the replacement of steam locomotives by electric and gas-driven turbine engines is a natural step in technical progress. The high exploitation qualities of electric locomotives and their remarkable efficiency and capacity places the electrification of railroads in the foreground. It is intended to electrify 8,100 km of railroad lines during the Sixth 5-Year Plan. The following lines will be electrified: Moscow - Kuybyshev - Chelyabinsk, Omsk - Novosibirsk - Irkutsk, Moscow - Khar'kov - Slavyansk, Chelyabinsk - Sverdlovsk, Inskaya - Belovo, Belorechenskaya - Tuapse - Sukhumi, Pyatikhatka - Nizhnedneprovsk - Chaplino - Yasinovataya, and others. Also the suburban lines of the biggest cities - Moscow, Leningrad, Khar'kov, Kiyev, Stalingrad, Baku will be electric. At the same time powerful Diesel engines will be installed on the lines: Penza - Povorino - Valuyki, Dzhusaly - Arys', Karaganda - Mointy, Akmolinsk - Barnaul, Kalinin - Leningrad, and others. The following electric locomotives will be built: "Н8", "ВЛ-22м" and "ВЛ-23" working on direct current, and "НО" running on alternating current. The first three engines work on a voltage of the net

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of 3,300 volt. Table 1 shows the characteristics of these 3 locomotives. The authors deal with the question of changing over to alternating current, considering the direct current to be uneconomical. They describe the difficulty of using one-phase alternating current. On the section Ozherel'ye - Pavelets of the Moscow - Kursk - Donbass RR, alternating current with a tension of 22 kw is already being used. Electric locomotives "HO" (NO), constructed at the Novocherkassk Plant are running there. Figure No 9 shows a basic electric circuit diagram of locomotive "HO". The engines built are freight locomotives. Special passenger locomotives are not at present being constructed, but Soviet designers are working on special passenger locomotives for a speed of over 150 km per hour. For the suburban passenger traffic, electric engines C_3^P have been built which do not satisfy the demand because of slow speed (85 km/h) and poor acceleration (0.45 m/sec^2). The Riga RR Car Construction Plant (Rizhskiy vagonostroitel'nyy zavod) produced recently a 10-car electric train ЭР-1 which proved to be satisfactory. The comparative characteristics of C_3^P and ЭР-1 are indicated on table 2. A considerable number of freight Diesel locomotives ТЭ-1 and ТЭ-2 operate on the USSR railroads. Their efficiency and speed no longer satisfies the

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demand. They will be supplemented by new powerful freight Diesel locomotives ТЭ-3 (Figure 11). They have a 2-cycle, 10-cylinder engine type 2Д-100, without compressor and with opposing pistons. The electric circuit diagram of this engine is shown in Figure 12. Its capacity is 2,000 hp with 850 rpm. The article gives further particulars about the ТЭ-3 Diesel locomotive. The speed is 100 km/h. On the basis of the ТЭ-3 locomotive, the Khar'kov Diesel Locomotive Plant has constructed for experimental purposes, new powerful three-section Diesel freight locomotives of 6,000 hp and two-section passenger locomotives ТЭ-7 of 4,000 hp with a construction speed of 140 km/h. The construction of ТЭ-7 and ТЭ-3 is much alike and makes mass production simple. During recent tests a metal-car passenger train took 5 hours 55 minutes from Moscow to Leningrad. A number of gas generator locomotives ТЭ-4, developed by the All-Union Scientific Research Institute of Railroad Transport (Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta), are already in use. They consist of two sections of Diesel engine ТЭ-2 with a gas generator tender installed between the sections. The Murom Works (Muromskiy zavod) have already constructed new 400-hp Diesel shunting-engines ТГМ ready for testing. In addition to the ТГМ the

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Voroshilovgrad Plant has built experimental 750-hp shunting-engines with hydro-mechanical gear. The Bryansk Plant works on the construction of a Diesel shunting-engine of 1,000 - 1,200 hp. The Kaluga Works of the MPS (Kaluzhskiy zavod MPS) have built a narrow-gage Diesel locomotive TY-2 with a 4-cycle non-compressor, 12 cyclinder, V-like 300-hp Diesel engine. The Kolomna Plant (Kolomenskiy zavod) has started constructing various assemblies of the two-section gas turbine locomotives for heavy liquid fuel (mazut) of 3,740 hp. The Voroshilovgrad Transport Engine Plant (Voroshilovgradskiy zavod transportnogo mashinostroyeniya) is working on the construction of a gas turbine locomotive with a shaftless piston gas generator of 3,000 hp capacity in each section. Figure 16 shows the disposition of this locomotive's equipment. During the next few years the construction of a gas turbine locomotive is planned with two-stage fuel burning, as per a project developed by the TsNII MPS. Figure 17 illustrates the disposition of the locomotive's equipment. The fuel: 20 - 30% liquid and 70 - 80% solid. The principal characteristics of the discussed gas-turbine locomotives are contained in Table 3. The problem of gas-turbine locomotives is of recent origin but wide prospects for their development can be seen already.

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Construction of Locomotives During the Sixth 5-Year Plan 47-4-2/20

There are 11 figures, 1 diagram, 3 tables and 6 photos.

ASSOCIATION: TsNII MPS (Moscow)

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SOV/96-58-6-24/24

AUTHOR: Chirkin, A.P. Dr.Tech.Sci. and Bartosh, Ye.T., Cand.Tech.Sci.

TITLE: Concerning Prof. N.I. Belokon's book "Thermodynamics". (O knige prof. N.I. Belokonya "Termodinamika")

PERIODICAL: Teploenergetika, 1958, No.6. pp. 93-96 (USSR)

ABSTRACT: In Teploenergetika No.9., 1955, G.N. Fuks gave an unfavourable review of the above book. The present contributors consider that the original reviewer did not properly evaluate the book, which is of original outlook and very useful; this is explained at length. There is an editorial note that the matter requires further discussion.

1. Literature--USSR 2. Thermodynamics

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BARTOSH, Ye.T., kand. tekhn. nauk, Shevchenko, L.A., inzh.

Prospects for using gas-turbine locomotives. Zhel. dor. transp. 41 no.4:16-20 Ap '59. (MIRA 12:6)
(Gas-turbine locomotives)

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BARTOSH, YE.T.

PHASE I BOOK EXPLOITATION SOV/45[illegible]

Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta

Voprosy gazoturbovozostroyeniya i transportnoy teploenergetiki; sbornik statey (Problems in Gas-Turbine Locomotive Building and Heat-Power Engineering in Transportation; Collection of Articles) Moscow, Transzheldorizdat, 19[illegible]. 21[illegible] p. (Its: Trudy, vyp. 187) 1,000 copies printed.

Sponsoring Agency: Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta.

Eds. (Title page): Ye. T. Bartosh, Candidate of Technical Sciences, and A.V. Kas'yanov, Candidate of Technical Sciences; Ed. (Inside book): I.K. Petushkova; Tech. Ed.: P.A. Khitrov.

PURPOSE: This book is intended for engineering and technical personnel.

COVERAGE: The book consists of 13 articles on the results of theoretical investigation of gas turbine units with two-stage fuel combustion, and on theoretical and laboratory investigations of air tank units and their components. Special features of variable regimes of locomotive gas turbine engines and problems of fuel economy in locomotive and stationary units are discussed. No personalities are mentioned. References accompany some of the articles.

Bartosh, Ye. T., Candidate of Technical Sciences. Flow Distribution In Clusters of Pipes

Yevtushenko, A.M., Candidate of Technical Sciences. Cutting Pr[illegible] of Self-Sealing, Equal-Section Gasket Rings 85

Kas'yanov, A.V., Candidate of Technical Sciences, Yu. [illegible], Candidate of Technical Sciences, and Ye. P. Khil'[illegible]skaya, [illegible]. Aerodynamic Investigation of Gas Turbine Locomotive Air Tank Eleme[illegible]

Kalagin, L.V., Engineer. Determining Tolerances for the Dimensions of Centrifugal Fuel Swirlers 11[illegible]

Chernomordik, B.M., Engineer, Candidate of Technical Sciences, and K.F. Dobrikov, Engineer. Influence of Generator Gas Composition on the Combustion Process in a Piston Chamber 1[illegible]

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[illegible]ayeva, Ye. M., Engineer. Test Stand Results of a [illegible] Fire Box In the Air Tank of a Gas Turbine Locomotive 190

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BARTOSH, Ye.T., kand.tekhn.nauk

Gas-turbine locomotives (Construction and principles of operation). Elek.i tepl.tiaga 14 no.3:33-37 Mr '60. (MIRA 13:7)

(Gas-turbine locomotives)

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BARTOSH, Ye.T., kand.tekhn.nauk

Traction characteristics of the gas turbine. Vest. TSNII MPS 19 no.5:29-33 '60. (MIRA 13:8)
(Gas turbines)

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Aerodynamic design of contact packings. Trudy TSNII MPS no.214:121-136 '61. (MIRA 14:8)
(Packing (Mechanical engineering))

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BARTOSH, Ye.T., kand.tekhn.nauk

Determining the uniformity of charging of multicylinder engines with air. Trudy TSNII MPS no.214:182-187 '61. (MIRA 14:8)
(Gas and oil engines)

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KUMSKOV, Viktor Timofeyevich, kand. tekhn. nauk; MAKHAN'KO, Mikhail Grigor'yevich; BARTOSH, Ye.T., kand. tekhn. nauk, retsenzent; SMIRNOV, V.A., kand. tekhn. nauk, red.; BOBROV, Ye.N., tekhn. red.

[Fundamentals of heat engineering] Osnovy teplotekhniki. Moskva, Transzheldorizdat, 1962. 231 p. (MIRA 15:6)
(Heat engineering)

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E143/E435

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AUTHOR: Bartosh, Ye.T., Candidate of Technical Sciences

TITLE: Discharge characteristics of a gas turbine

PERIODICAL: Energomashinostroyeniye, no.1, 1962, 1-5

TEXT: Well known analytical expressions representing the relationships between turbine discharge and the variable thermodynamic parameters apply only when the deviations of u/c_o ratio are small, i.e. when variations of efficiency of individual stages and of the turbine as a whole are small. In many cases and particularly when turbines are applied for traction purposes, this condition restricts the possibility of analysing the changing operating regime of the machines. A method of calculating the characteristics of a multistage turbine operating under variable thermodynamic parameters and under variable speed is here presented. For this purpose, Belkon's equation expressing the discharge of gas through the turbine is utilized. Belkon's equation gives similar results to Stodola's and Fluegel's equations when the turbine is regarded as a group of stationary nozzles. When the speed and efficiency change from zero to the design value, it becomes

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necessary to account for rapid increase of heat re very due to increase of gas temperature as a result of irreversible losses across turbine blades and also on account of high exit velocities from the preceding stages. These factors contribute towards an increase of discharge capacity of intermediate stages and of the turbine as a whole. The introduction of a coefficient of increase of the discharge capacity of a stage, which takes into account those factors, permits the study of thermodynamic parameters to be carried out for any operating regime. From expressions derived, it appears that discharge capacity depends mainly on the number of stages and at full braking of the rotor may increase by 30 to 40%. The theoretical results agree reasonably well with the experimental obtained by G.R.Cox. The method described enables the evaluation of discharge, of the thermodynamic parameters and of the heat drop across the stages of a multistage turbine for any operating regime. Further calculations of the variable operating regime reduces to the analysis of the characteristics of separate stages of the turbine. There are 6 figures.

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