

S/058/62/000/003/008/092
A061/A101

AUTHORS: Veysbrut, A. D., Koltik, Ye. D.

TITLE: The use of Lissajous figures for obtaining out-of-phase voltages

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1962, 12, abstract 3A127 ("Tr. in-tov Kom-ta standartov, mer i izmerit. priborov pri Sov. Min. SSSR, 1961, no. 52(112), 123-127")

TEXT: Voltages of two frequencies - one produced by a generator, and the other reduced by n times with a frequency divider - are fed to an electron oscilloscope. A phase shifter connected to the channel of the latter voltage is capable of shifting its phase from 0° to 360° . Starting from the "open" Lissajous figure, it is possible to establish among the voltages the precisely known phase shift angles, the periodicity of which is $360^\circ/(2n)$. The error of the n-dependent precision exceeds $0^\circ.03$ at $n = 128$. The realization of the method in the practice and actual diagrams of the system components are considered.

K. Shirokov

[Abstracter's note: Complete translation]

Card 1/1 A-U Sci Res Inst Metrology im D. I. Mendeleyev

39057

S/115/62/000/006/005/005
E032/E514

9,4174

AUTHORS: Gravin, O.N., Galakhova, O.P. and Koltik, Ye.D.

TITLE: Application of thermal converters at infra-low frequencies

PERIODICAL: Izmeritel'naya tekhnika, no.6, 1962, 31-34

TEXT: Possible applications of thermoelectric devices at frequencies below 0.5 cps have not been adequately explored. The authors therefore discuss the use of thermal converters at these frequencies. Circuits are suggested for: 1) the determination of a 90° phase difference between two alternating currents, 2) the indication of the fact that two currents are exactly in phase, and 3) determination of the current and voltage amplitudes. These circuits are respectively shown in Figs. 1, 2 and 3. In the first case the signal recorded by [] contains an alternating component whose amplitude is proportional to the difference from the 90° phase-shift between the currents i_1 and i_2 . The analysis is particularly simple when the two converters are identical. When they are not identical, one of them has to be suitably shunted. In the second case the two elements are connected in opposition and

Card 1/3

Application of thermal converters ... S/115/62/000/006/005/005
E032/E514

when the two signals are not exactly in phase the indicator shows a variable reading. In both cases it is important that the volt-ampere characteristics should follow the square law. Finally, Fig. 3 shows an arrangement which may be used to determine the current and voltage amplitudes. In this figure $\phi\beta$ is a phase shifting device, R is a resistor used to adjust the current (voltage) and M is an indicating meter calibrated in the preliminary d.c. experiment. This device was built at VNIIM and is being used as an indicator of the output voltage of infra-low frequency generators. These generators are designed to produce two equal sinusoidal signals shifted by 90° in phase. There are 3 figures.

Card 2/3

KOLTIK, Ye.D.

New method for measuring 90° phase shift. Trudy inst. Kom. stand.
mer. i izm. prib. no. 67:50-56 '62. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni
Mendeleyeva.

KOLTIK, Ye.D.

New application of the Hall effect to semiconductors. Priborostroenie
no.4:4-5 Ap '63.
(Hall effect) (Semiconductors) (MIRA 16:4)

WTI / SWA(h) Petr
AR4046130

Svez72, no. 1, 1982, p. 132

8
13

... zh. Metrologiya i izmeritel'naya tekhnika. Otdel'nyy vypusk, 7.32.342

... K. Ye. D.

2 channel phase calibrating device

... Tr. na-tov Kom-ta standartov i metodicheskikh norm. Sov. Min.

14(34), 1963, 76-89

... gas meter calibration, phase shifter, phase shift error, trigger, phase shift error, discrimination, analysis

... The article describes a device for phase calibration of meters and phase shift frequencies ranging up to 1000 cps at a resolution of the order of 0.1°. It employs a calibrating phase changer in a frequency range of 100-1000 cps, with the phase shift from 0 to 360°, and successive frequency settings by 36 (to 1000 cps). A phase shift by 360° at a frequency of 75 cps corresponds to a 1° shift at 1000 cps. The error in phase shift readings from the period counter value increases to 1/36th. Analysis is made of irregularities in phase characteristics of a rotary rheostat

Ref. AR4046130

and the variation in output amplitude during a power shift. An evaluation is produced by line voltage induction on selective output amplifiers. Detailed are given of the circuitry and construction of devices with output frequencies 1000 cps. Triggers in scaler circuits are used as frequency scalers. Circuits isolating the required frequencies are placed at the signal exit. The results of experimental tests of the instrument.

SEE

ENCL: 30

KOLTIK, Ye.D.

Increasing the precision of circular phase shifters. Nov.nauch.-
issl.rab.po metr. VNIIM no.4:15-16 '64.

(MIRA 18:3)

L 4403-66 EXT(d)/EEC(k)-2

ACCESSION NR: AP5024168

UR/0115/65/000/008/0025/0027

621.317.772.029.51

AUTHOR: Koltik, Ye. D.; Taube, R. S.; Kulemin, A. A.

TITLE: The F-200 phasometric device

SOURCE: Izmeritel'naya tekhnika, no. 8, 1965, 25-27

TOPIC TAGS: phase shift analysis, instrument calibration equipment, phase meter

ABSTRACT: Research done at the VNIIM im. D. I. Mendeleyeva on precise methods of reproducing phase shifts between two variables showed that for an accuracy of $\pm (0.1 - 0.05)$ ° the frequency range of phase calibrators with cathode-ray tubes can be expanded to 200-300 kc without frequency conversion. The basic circuit of the proposed F-200 phasometric device is given and its operation is described. The device can be used not only for calibrating or checking phase meters within $\pm 1 - 1.5$ °, but also for testing passive and active electric networks. In the presence of a frequency converter, the input voltages can be converted to an audio frequency range. Orig. art. has: 1 figure.

[08]

ASSOCIATION: none

Card 1/2

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L 4403-66

ACCESSION NR: AP5024168

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4125

Card 2/2

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010011-4"

AP5016737

UR/0296/35/000/010/0043/0049

Ulik, Ye. L.; Kravchenko, S. A.

Phase shifting device for very low frequencies. May 21, No. 171045

Author's izobreteniye i tovarnykh znakov, no. 1, 1975, N° 49
phase shifter, very low frequency

The Author Certificate presents a phase shifting device for very low frequencies. It contains a quartz oscillator, a high frequency square pulse shaping circuit, an amplitude limiter, a circuit for measuring the phase shift, a phase shifter, and output amplifiers (see Fig. 1). In the Enclosure is a sinusoidal form of the output voltage curve, an analog calligraph. It is inserted to perform the function of a very low frequency oscillator. It consists of two integrators and a phase inverter with a feedback loop. It has: 1 diagram.

None

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ENCL: 01

SUBJ CODE: EC

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OTHER: 000

ENCLOSURE: 01

SR: AP5016737

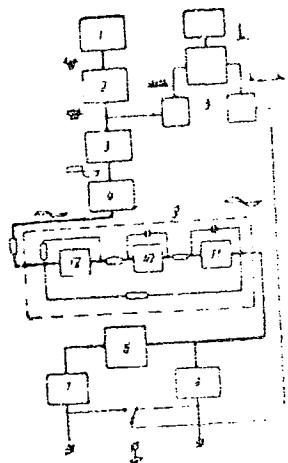


Fig. 1.

1- radio oscillator; 2- high frequency signal source shaper; 3- low frequency circuit; 4- amplitude limiter; 5- circuit for measuring phase shift increment; 6- phase shifter; 7 and 8- output filters; 9- analog calculating circuit; 10 and 11- integrators; 12- phase inverter

KOLTIK, Ye.D.

Two-channel phase calibrator. Trudy inst. Kom. stand., mer. i
izm. prib. no.74:76-89 '63. (MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii
im. D.I.Mendeleyeva.

L 42786-66 JXT(CZ)

ACC NR: AR6017185

SOURCE CODE: UR/0058/65/000/012/A028/A028

28
8

AUTHOR: Koltik, Ye. D.

ORG: none

TITLE: Studies at the VNIIM in the field of phase measurements

SOURCE: Ref. zh. Fizika, Abs. 12A282

REF SOURCE: Tr. in-tov Gos. kom-ta standartov, mer i izmerit. priborov SSSR,
vyp. 76(136), 1965, 83-91

TOPIC TAGS: phase measurement, phase meter, electronic equipment

ABSTRACT: Precise methods and standard equipment are being developed for
checking highly accurate single-phase phase meters at the VNIIM [All-Union
Scientific Research Institute of Metrology]. The development of the first phase
meters is being carried out in two directions: the development of standard units of
measure and of highly accurate phase meters. A method is being developed for

Card 1/2

L 00042-67 EWT(d)/EWT(1)/EEC(k)/-2 IJP(c) CC
 ACC NR: AP6035865 SOURCE CODE: UR/0413/66/000/020/0077/0077

INVENTOR: Gravin, O. N.; Koltik, Ye. D.; Kravchenko, S. A.

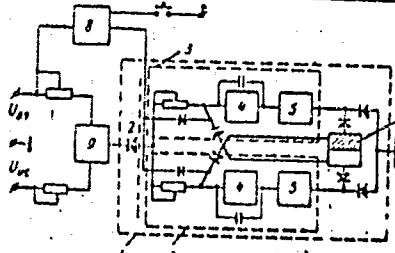
ORG: none

TITLE: Addition and subtraction phasemeter for infrared frequency. Class 21,
 No. 187148 [announced by the All-Union Scientific Research Institute of Metrology
 im. D. I. Mendeleyev (Vsesoyusnyy nauchno-issledovatel'skiy institut metrologii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 77

TOPIC TAGS: phase measurement, electric test equipment

ABSTRACT: An Author Certificate has been issued for an addition and subtraction
 phasemeter for infrared frequency waves which input attenuators for both tested and



Card 1/2

Fig. 1. Infrared phasemeter

1 - Measuring converter; 2 - rectifier diode;
 3 - converter channels; 4 - current integrator;
 5 - threshold elements; 6 - recording device;
 7 - bistable trigger; 8 - measurement time
 controller; 9 - summator; U_{on} - reference
 voltage; $U_{in'}$ - tested voltage

UDC: 621.317.772

L 09942-67
ACC NR: AP6035865

reference voltage. The attenuators are connected at the summator input, and the summator output is coupled to a measuring converter which in turns is loaded by a recording unit. To increase accuracy and to reduce measurement time, the circuit shown in Fig. 1 is proposed. Orig. art. has 1 figure.

SUB CODE: 14 / SUBM DATE: 27Aug65 / ATD PRESS: 5105

Card 2/2

ACC NR: AP7000326

(A)

SOURCE CODE: UR/0413/66/000/022/0066/0066

INVENTOR: Koltik, Ye. D.; Kravchenko, S. A.

ORG: none

TITLE: Phase-shift calibrator for extremely low frequencies. Class 21, No. 188584.
 [announced by All-Union Scientific Research Institute of Metrology im. D. I. Mendeleyev. (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 66

TOPIC TAGS: phase measurement, instrument calibration equipment

ABSTRACT: An Author Certificate has been issued for a phase-shift calibrator for extremely low frequencies. The device includes an extremely low-frequency oscillator with two phase shifters and an indicator of phase-shift increment. To increase

Card 1/2

UDC: 621.317.727

ACC NR: AP7000326

APPROVED FOR RELEASE: 06/13/2000

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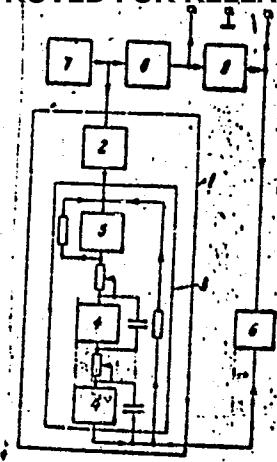


Fig. 1. Calibrator

- 1 - Extremely low-frequency multiplier;
- 2 - amplitude limiter; 3 - multiplying circuit; 4 - quadrature amplifier;
- 5 - phase-inverting stage; 6 - phase-shift increment indicator; 7 - extremely low frequency oscillator; 8 - auxiliary phase shifter; 9 - base phase shifter.

accuracy at a given phase shift, the circuit shown in Fig. 1 is proposed. Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 16Jul65/ ATD PRESS: 5108

Card 2/2

ACC NR: AR7000830

SOURCE CODE: UR/0272/66/000/010/0123/0123

AUTHOR: Koltik, Ye. D.; Kravchenko, S. A.

TITLE: Precision phase-shifting devices for the extreme l-f range

SOURCE: Ref. zh. Metrologiya i izmeritel'naya tekhnika, Abs. 10. 32. 886

REF SOURCE: Tr. in-tov Gos. kom-ta standartov, mer i izmerit. priborov SSSR,
vyp. 82(142), 1965, 67-82

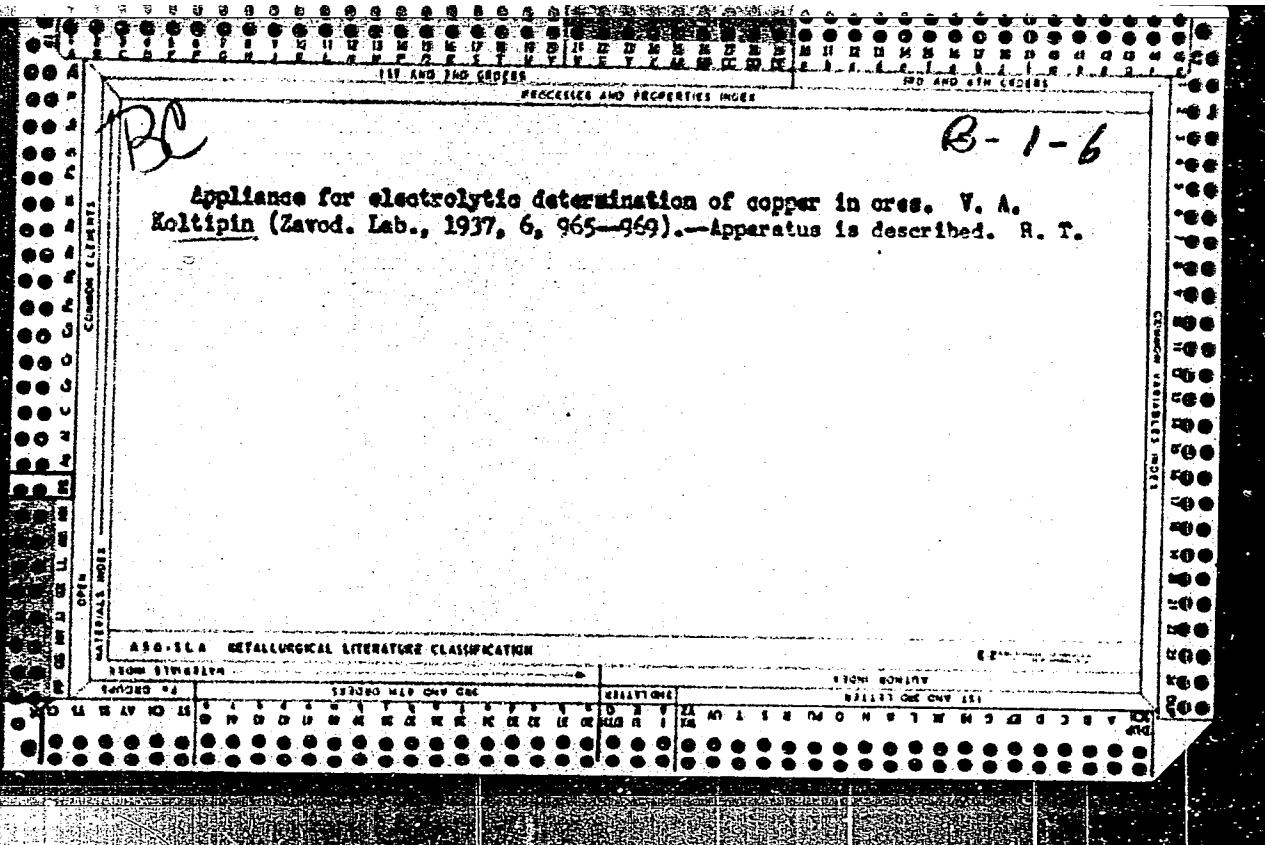
TOPIC TAGS: phase shifter, extreme low frequency, phase shift

ABSTRACT: A method of reproducing the phase shifts between two extreme l-f voltages (0.001—100 cps) with an error of not over a few tenths of one degree is investigated. The theory of the method is explained. Two types of new phase-shifting devices based on the use of electronic and optical-mechanical devices are described. The schematic diagrams of the basic units of the phase-shifting devices and the results of their investigation are given. There are eleven illustrations and a bibliography of 3 titles. P. Agaletskiy. [Translation of abstract] [DW]

SUB CODE: 09/

Card 1/1

UDC: 621. 317. 77. 084



ACC NR:

AM6010598

Monograph

UR/

Koltnov, Valentin Sergeyevich

Kinetics of reduction-oxidation reactions of uranium, neptunium and plutonium in aqueous solution (Kinetika okislitel'no-vosstanovitel'nykh reaktsiy urana, neptuniya, plutoniya v vodnom rastvore) Moscow, Atomizdat, 1965, 318 p. illus., biblio. 2,300 copies printed.

TOPIC TAGS:

chemical reaction, oxidation reduction reaction,
uranium, plutonium, neptunium, ion, reaction rate, reaction mechanism

PURPOSE AND COVERAGE: This book reviews works published up through 1964 on the kinetics of reduction-oxidation reactions of uranium, neptunium and plutonium. A description is given of the reactions of these elements with ions of iron, vanadium, titanium, cerium, thallium, tin with oxygen, hydrogen peroxide, hydrazine, nitric and nitrous acid, with persulfate, chlorate and others. Special attention is given to the reaction between similar ions of uranium, plutonium and neptunium including the reaction of disproportionation and reproportionation. Over forty reactions are included. The book also gives data on the sequence of reactions, speed constants, activation energy, as well as on the effect of catalysts, inhibitors and ionic strength upon the speed of reactions. Also, thermodynamic degrees of activation are shown, and more probable mechanisms of reactions are considered. This book can be useful to engineers in atomic industry, to university teachers and

Card 1/2

UDC: 541.8:546.791.3/6.546.799.3/.4

ACC NR:

AM6010598

TABLE OF CONTENTS (abridge):

- Preface -- 3
Ch. I. General reduction-oxidation properties of the ions of U, Np and Pu -- 5
Ch. II. Some reactions of the reduction of Pu(IV) up to the trivalent state -- 18
Ch. III. Disproportionalization of Pu(IV). Oxidation of U(IV) and Np (IV) -- 64
Ch. IV. Reactions reversing the disproportionalization of Np(IV) and Pu (IV) -- 97
Ch. V. Disproportionalization of U (V), Np (V) and Pu (V) -- 117
Ch. VI. Reproportionalization of U (V), Np (V) and Pu (V). Reduction of Pu (VI) and Np (VI) up to the pentavalent state -- 136
Ch. VII. Reduction of the hexa- and pentavalent ions up the quatravalent state -- 173
Ch. VIII. Reactions with oxygen and hydrogen peroxide -- 194
Ch. IX. Oxidation with oxygen acid and halogens -- 221
Ch. X. Comparison of speed and mechanism of reduction-oxidation reactions of U, Np and Pu -- 265
Bibliography --313

SUB CODE: 07 / SUBM DATE: 01Oct65 / ORIG REF: 019 / OTH REF: 122 /

Card 2/2

BAISHEV, Saktagan Baishevich; KOLTOCHNIK, N.I., red.; ALFEROVA, F.F.,
tekhn. red.

[Theoretical and historical studies concerning the triumph of
socialism in Kazakhstan] Pobeda sotsializma v Kazakhstane; ocherki
po teorii i istorii voprosa. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi
SSR, 1961. 325 p. (MIRA 14:12)
(Kazakhstan--Economic conditions) (Communism)

ARYKOVA, Amilya Idrisovna; ZHULAYEV, Rakhat Zhangazovich; KOLTOCH-
NIK, N.I., red.; HOROKINA, Z.P., tekhn.red.

[Improved type of water intake with a screened bottom gallery] Uluchshennyi tip vodozabora s donnoi reshetchatoy gal-
lereei. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1961. 79 p.
(MIRA 14.5)

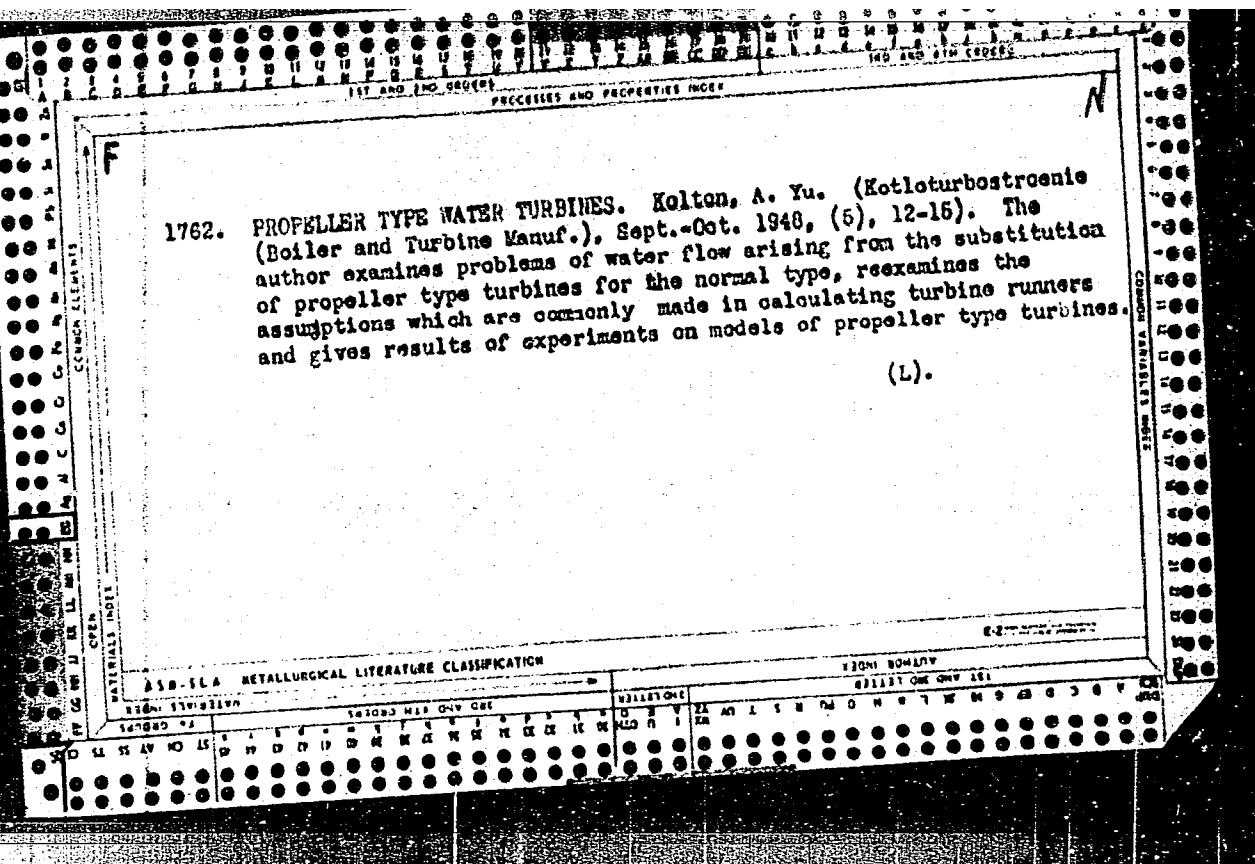
(Water-supply engineering)

CHULANOV, Gabdulla Chulanovich; ISIMUKHAMEDOV, Bukenbay Mergaliyevich;
CHECHELEVA, Tat'yana Vasil'yevna; ZHUBANOVA, Zarya Galimovna;
KOLTOCHNIK, N.I., red.; ROROKINA, Z.P., tekhn. red.

[Studies on the history of the national economy of the Kazakh
S.S.R.] Ocherki istorii narodnogo khoziaistva Kazakhskoi SSR.
[By] G.Ch.Chulanov i dr. Alma-Ata, Izd-vo Akad. nauk Kazakh-
skoi SSR. Vol.2.[From 1928 to June 1941] 1928 god - iyun'
1941 goda. 1962. 374 p. (MIRA 15:8)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut ekonomiki.
(Kazakhstan--Economic conditions)

Cand.
KOLTOMOVA, M. D.: Master Med Sci (diss) -- "The effect of various types of
stimulating therapy on the protein content of blood in chronic malnutrition
disorders of young children". Novosibirsk, 1958. 18 pp (Tomsk State Med Inst),
220 copies (KL, No 1, 1959, 123)



KOITON, A.Yu., kand. tekhn. nauk; ETINBERG, I.E., kand. tekhn. nauk.

Investigation and development of a high-speed adjustable-blade
runner. [Trudy] LMZ no. 45-18 '57. (MIRA 11:4)
(Hydraulic turbines)

124-58-6-6686

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 54 (USSR)

AUTHORS: Kolton, A. Y. U., Kuzminskiy, S. S.

TITLE: On the Selection of Basic Parameters for Curved Draft Tubes
of Variable-pitch-blade Water Turbines (K voprosu o vybere
osnovnykh parametrov izognutikh otsasyvayushchikh trub
povorotnolopastnykh gidroturbin)

PERIODICAL: V sb.: Gidroturbostroyeniye. Vol. 4., Moscow-Leningrad,
Mashgiz, 1957, pp 37-42

ABSTRACT: The results of experiments on a series of turbines of different
specific speeds equipped with geometrically similar draft tubes
of different heights are given. The relationship between the
efficiency of a turbine and its height is determined. A turbine
equipped with a curved draft tube is found to be less efficient
than one equipped with a straight tube. The use of tubes with
a variable angle of divergence appreciably increases the
efficiency of a turbine as compared to tubes with a constant
angle of divergence. This angle must be considerably greater
in the inlet portion of the tube than in the outlet portion.

Practical recommendations are advanced for the construction of
Card 1/1 hydroelectric power plants. B. V. Aronov

1. Turbines--Design 2. Turbines--Performance 3. Turbines--Equipment

KOLTON, A.Ye.

ABROSH, A.Ya., inzh.; KOLTON, A.Yu., kand. tekhn. nauk.

Study of the dynamics of turbine operation during dropping of
screens mounted in the draft tube. [Trudy] Izv no. 4:259-272 '57.
(Hydraulic turbines) (MIRA 11:4)

25(2); 10(4)

PHASE I BOOK EXPLOITATION

SOV/1421

Kolton, Abram Yudovich, and Isaak El'yevich Etinberg

Osnovy teorii i gidrodinamicheskogo rascheta vodyanykh turbin (Principles of Theory and Hydrodynamic Design of Hydraulic Turbines)
Moscow, Mashgiz, 1958. 357 p. 3,000 copies printed.

Reviewer: L.A. Simonov, Doctor of Technical Sciences; Ed.: V.P. Gur'yev, Candidate of Technical Sciences; Ed. of Publishing House: Ye.K. Gofman; Tech. Ed.: R.G. Pol'skaya; Managing Ed. for Literature on the Design and Operation of Machinery (Leningrad Division, Mashgiz): F.I. Fetisov.

PURPOSE: This book is intended for designers and researchers in the field of hydraulic machinery building and may also be used by students specializing in power-machinery building.

COVERAGE: The book deals with problems of hydrodynamics related to hydraulic reaction turbines. Basic theoretical principles and modern methods of hydrodynamic design for various types of turbines are presented. In preparing the material the authors utilized the valuable experience of LMZ (Leningrad Metal Works) and followed,

Card 1/8

Principles of Theory (Cont.)

SOV/1421

in general, the approach developed by I.N. Voznesenskiy, A.F. Lesokhin, and L.A. Simonov. Use was made of experimental work, done by the hydraulic turbine laboratory of the Leningrad Metal Works and research done by VIGM (All-Union Institute of Hydraulic-machinery Building), the Leningrad Polytechnic Institute imeni Kalinin, and the Moscow Higher Technical School imeni N.Ye. Baumana. Chapters I, V, VI, and VIII were written by I.E. Etinberg, and Chapters II, III, IV, VII and IX by A.Yu. Kolton. The authors thank personnel of the design department and laboratory of the Leningrad Metal Works and their supervisor N.N. Kovalev, Corresponding Member of the Academy of Sciences, USSR, for valuable assistance in preparing the book. There are 40 references, 39 of which are Soviet, and 1 English.

TABLE OF CONTENTS:

Foreword	3
Ch. I. Purpose of Hydromechanical Design and Principles for Model Testing Hydraulic Turbines	5
1. General premises	5
Card 2/8	

Principles of Theory (Cont.)

SOV/1421

2. Principles for model testing hydraulic turbines	7
3. Cavitation phenomena in hydraulic turbines and the cavitation coefficient.	15
Ch. II. Hydromechanical Principles of Hydraulic Reaction Turbines	19
4. Basic concepts	19
5. Axially-symmetrical flow	20
6. Graphical-analytical method of plotting meridional axially-symmetrical potential flow	26
7. Basic assumptions on the form of flow in various types of turbines	32
8. The basic turbine equation	34
Ch. III. Application of the Profile-grid Theory to the Design of Axial-flow Turbine Runner Wheels	37
9. Basic concepts	37
10. Zhukovskiy [Joukowski] theorem of lift	41
11. Determination of forces acting on the grid profile during plane-parallel flow of an ideal fluid	43
12. Relationship between circulation and the direction of	

Card 3/8

Principles of Theory (Cont.)

SOV/1421

inflow	46
13. Derivation of the relationship between velocities ahead of and behind the grid	48
14. Determination of axial-turbine shaft torque	53
15. The lift method	54
16. Basic methods of calculation for plane potential flow through straight profile grids	57
17. Use of the method of particularities in solving the problem of flow around a body	61
18. Calculation of flow around a thin and slightly-cranked wing	73
19. Lesokhin-Simonov method of designing profile grids of infinitely small thickness at a given distribution of vortices	81
20. Method of calculating a flow around the grids of infinitely thin profiles of a given form	88
21. Electrohydrodynamic analogy method (EGDA)	91
Ch. IV. Spiral Casings	100
22. Form of flow in a spiral casing	100
23. Design of tee cross section spiral casings	103

Card 4/8

Principles of Theory (Cont.)

SOV/1421

24.	Design of circular cross section spiral casings	108
25.	Effect of spiral casing on the general characteristics of a turbine	110
26.	Design of stay-ring profiles	119
Ch. V.	Guide Apparatus	121
27.	Purpose of the guide apparatus	121
28.	Geometric parameters and basic problem of the hydraulics of radial guide apparatus	123
29.	Flow formed by the radial guide apparatus	128
30.	Height and maximum opening of guide apparatus for tur- bines of different speed ratings	133
31.	Head losses in the radial guide apparatus and the effect of vane profile form on the magnitude of losses	135
32.	Determination of hydrodynamic forces acting on guide- apparatus vanes	145
Ch. VI.	The Axial-flow Turbine Runner-wheel	159
33.	Relationship of an axial-flow turbine's handling capa- city to the geometry of the runner wheel and its casing	159

Card 5/8

Principles of Theory (Cont.)

SOV/1421

34.	Twist of flow at the exit of a runner wheel and the axial-flow regime	167
35.	Relationship of angle of attack and lift coefficients to the operating regimes of a turbine	171
36.	Energy losses in a runner wheel and propeller character- istics	173
37.	Analysis of combined characteristics and the relation- ship between axial-flow turbine speeds and the geometry of a runner wheel	176
38.	Twist of axial runner-wheel vanes	181
39.	Type of flow through runner-wheel passages at nonrated regimes	190
40.	Selection of runner-wheel design regimes	195
41.	The axial-flow turbine cavitation coefficient	196
42.	Relationship between the axial-flow turbine cavitation coefficient and the geometric parameters of runner-wheel vanes	202
43.	Relationship between cavitation coefficient and turbine operating regimes	215
44.	Determination of hydrodynamic forces acting on axial	

Card 6/8

Principles of Theory (Cont.)

SOV/1421

54. Experimental modifications of the radial-axial runner-wheel	294
55. Determination of axial forces acting on the runner-wheel of an axial-radial turbine	297
Ch. VIII. Draft Tubes	304
56. Basic information on draft tubes	304
57. Straight draft tubes	312
58. Elbow-type draft tubes	321
Ch. IX. Special Hydrodynamic Features of Axial-flow Reaction Turbines With Axial Guide Apparatus	335
59. Form of flow in axial guide apparatus	335
60. Design of the axial guide apparatus	341
61. Approximate determination of kinematic characteristics of flow in an axial-flow turbine with axial guide apparatus	346
62. Flow around the runner-wheel vanes of an axial-flow turbine (with axial guide apparatus) under propeller and combined regimes	350

Bibliography

AVAILABLE: Library of Congress
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5-8-59

ORG0, V.M., kand.tekhn.nauk; KOLTON, A.Yu., kand.tekhn.nauk

Fields of application and efficient operation of various types
of horizontal hydraulic turbines. Energomashinostroenie 7
no.10:5-9 0 '61. (MIRA 14:10)
(Hydraulic turbines)

KOLYON, A.Yu., kand. tekhn. nauk; UMIKOV, I.N., inzh.; ETINBERG, I.E.,
kand. tekhn. nauk.

Basic principles of the establishment of new nomenclature on
large Kaplan and Francis-type hydraulic turbines. [Trudy] LMZ
no.10:39-52 '64. (MIRA 18:12)

KOLTON, A.Yu., kand. tekhn. nauk; NEVSKIY, D.Yu., inzh.

Development and study of the runners of the turbines of
the Krasnoyarsk Hydroelectric Power Station. [Trudy] LMZ
no. 10: 53-79 '64. (MIRA 18:12)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010011-4

KOLTON, A.Yu., kand. tekhn. nauk; KAN, A.V., inzh.

Construction of a meridional flow with consideration of
the blade constraintment. [Trudy] LMZ no.10:96-104 '64.
(MIRA 18:12)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010011-4"

... $\rho \cdot c^2 \cdot T_{\infty} / (m \cdot E_{\infty} / v) \cdot A \cdot S(k) = R_d - 1 / R_e - 1$

AR5005864

S 6120 64-800/011/B024/B024

zh. Mekhanika, Abs. 11B142

zon, G. A.

out of radiation in problems of flow about a blunted axially-symmetrical body in a hypersonic gas stream.

Zap. Leningr. gorn. in-ta, v. 44, no. 1, 1964, p. 36

hypersonic flow, gas dynamics, shock wave, temperature profile, blunted body flow

A system of gasdynamics equations is considered, in which account is taken of the viscosity, thermal conductivity, and radiation. The radiation and the radiant energy density are neglected. It is assumed that the gas density by the viscosity and the Prandtl number are constants, the surface of the body is thermally insulated and absolutely black. Solution of the problem is sought by the Chezy-Freeman method, i.e.,

Page 1/2

AB5005864

of a series in powers of the compression behind the shock wave. Only terms proportional to infinite compression are taken into account. Along the symmetry axis the problem reduces to the solution of one nonlinear integral equation of the enthalpy. The solution of this equation is obtained by successive approximation. Various particular cases are investigated. For example, gas temperature profiles are given along the symmetry line for $\gamma = 1$ and 3). It is noted that these profiles have a form characteristic of two-layer problems; the temperature remains practically unchanged in the outer part of the shock layer, with the exception of the immediate vicinity of the shock, in which the flow takes place, where the temperature gradient is quite large.

DATA NAME: AB

ENCL: 00

AMT : /EPA(b)/EWK(v)/FCS(k) Pd-4 Rev-1 ASD : - AFPL SSL/AFETR/

ASD/C/BSB/AEDC(s) RM/RW
NY AP4044460

S/0043/64/000/003/0103/0109

citon, G. A.

viscous radiative gas flow near the stagnation point of a

Pringrad, Universitet, Vestnik. Seriya matematiki,
astronomii, no. 3, 1964, 103-111

hyperersonic flow, heat conducting gas flow, radiative gas
wave, stagnation point flow, iteration method

The Freeman-Cherny method is applied to determining viscous
heat-conducting radiative gas near the stagnation point of
body. Dissipation, density of radiative energy, radi-
tance, and the effect of radiation on the free stream flow
are neglected. The method consists in the solution of a
linear integro-differential equation for the gas enthalpy.
This is transformed to an integral equation, the solution of
which by successive approximations. Flow past a sphere is
taken as an example. The method also makes it possible to deter-

NR: AP404460

Temperature distribution in a shock layer near the stagnation
ptg. art. heat 14 formulas.

COLLATION: none

DT: 24 May 63

ATD PRESS: 3097

ENCL: 00

MS, AS

NO REP Sov: 007

OTHER: 001

BUT(d)/BUT(1)/BUT(w), BUT(n)/BUT(v)/BUT(r)/BUT(a)/BUT(r)/BUT(h)/
BUT(n)/BUT(a) Pd-1/Po-5/Pf-4/Peb WW/EM

AP5012134

UR/0043/65/000/002/0118/0126

49
B

AUTHOR: V-Itov, G. A.

hypersonic flow of inviscid radiating gas past a cone

Minsk Universitet. Vestnik. Seriya matematiki, mekhaniki i
fiziki. No. 2, 1955, 118-126

hypersonic flow, inviscid gas, radiating gas, boundary layer, shock
wave, absorption coefficient, radiation boundary, wave, hypersonic
cone, enthalpy

The effect of radiation on the characteristics of hypersonic gas flow
is considered. A system of equations of hydrodynamics with radiation
is written and is reduced to a nonlinear integral equation for
using the "boundary layer" method developed by Prandtl, Lamin, Tichy,
and others. Only a limiting solution is sought that is valid
expression of the gas behind a shock wave is $\gamma = \infty$, $\alpha = 0$. The
hypersonic flow of radiating gas past a cone is also considered
two cases: 1) total reflection, and 2) partial reflection of a
cone with a semiapex angle of 24° in the case of wind speed $U = 30$ and
 $H = 25$ km is presented as an illustrative example under the assumption

REF ID: AP5012134

The absorption coefficient of the gas depends on the temperature. The shock wave at the tip of the cone is determined and an expression is given for the shock wave curvature with $\gamma \ll 1$. It is concluded that the radially heated gas behind a shock wave influences the temperature, heat capacity, density, and that the direction of curvature of the shock wave depends on the ratio between temperatures at the vail and at the tip of the cone. This solution may be extended to hypersonic flow past a sharp-nosed body of revolution of arbitrary shape. Orig. art. has: 17 formulas [AB]

8 none

100-113

ENCL: 00

FILE CODE: ME, 70

110

TYPE: 001

PRESS: 3264

KOLTONSKI, W.

KOLTONSKIY, V. and MALETSKIY, I.

"Possibility and Extent of Applied Ultrasonic Methods to the Study of Ores"
Byull. Polskoy Akad. Nauk. Otd. 4, No 3, 1953, pp 125-128

Velocity and absorption of ultrasound in various ores (anhydride, salt, limestone, coal, sand) were studied in laboratory conditions in the frequency range of 30-150 kc. It was found that absorption slightly rises in the frequency range of 30-80 kc and increases rapidly over 80 kc. Velocities were measured on cylindrical specimens by means of the standing wave. Longitudinal waves moved at a 4000 meters/sec velocity in salt. Authors consider this method useful for study of ore structure. (RZhFiz, No 11, 1954)

SO: W-31187, 8 Mar 55

KOLTONGSKI, W.

"Synthesis of Plans and Achievements of Modern Electroacoustics", p. 334,
(PRZEGŁAD TELEKOMUNIKACYJNY, Vol. 27, No. 11, Nov. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5,
May 1955, Uncl.

KOLTOWSKI, W.

Malecki, L. Using ultrasonics in research on the structure of homogenous
geologic deposits. p. 157.
ARCHIWUM GORNICTWA I HUTNICTWA, Warszawa, Vol. 3, no. 2, 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

KOLTOWSKI, W.

"New Possibilities for Applying Supersonic Waves", p. 41, (PRZEGLAD
TELEKOMUNIKACYJNY, Vol. 28, No. 2, Feb. 1955, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 5, May 1955, Uncl.

POLAND/Acoustics - Ultrasonics

J-4

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6585

Author : Koltowski Waclaw

Inst : Institute of Basic Technical Problems, Poland

Title : Investigation of Rock and Raw Materials of Rock by Means of Ultrasonics

Orig Pub : Proc. II conf. ultrason., 1956. Warszawa, PWN, 1957, 155-161

Abstract : The author reports the results of an investigation of the possibility of using ultrasonics in mining, for the investigation of rocks and the commercial raw material obtained from rocks. An investigation of the absorption of ultrasound makes it possible to detect deposits of limestone and sandstone with desired mechanical properties, and also to classify rapidly felspars as a function of their SiO_2 content. A study of the propagation of ultrasonic pulses at the deposit of mountain rocks makes it possible to observe the presence of cracks, various discontinuities, and stratification of granites and basalts. A possibility is indicated of defecto-

Card : 1/2

80

KOLTONSKI, WACLAW

"Outlines of the theory of transmission and reproduction of stereophonic sounds"

p. 57 (Panstwowe Wydawn. Naukowa, 1958, Warsaw, Poland)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 1, Jan. 59.

KOLTONSKI, WACLAW

35

PHASE I BOOK EXPLOITATION

POL/5981

Symposium on Electroacoustic Transducers. Krynica, 1958

Proceedings of the Symposium on Electroacoustic Transducers [held in] Krynica,
17-26 September, 1958. Warsaw, Państwowe Wydawnictwo Naukowe, 1961. 442 p.
Errata slip inserted. 630 copies printed.

Sponsoring Agency: Polish Academy of Sciences. Institute of Basic Technical
Problems.

Ed. in Chief: Janusz Kacprowski, Doctor of Sciences; Editing Committee: Ignacy
Malecki, Professor, Doctor of Sciences; Wincenty Pajowski, Doctor; and Jerzy
Wehr, Master of Sciences; Secretary: Juliusz Mierzejewski.

PURPOSE: This book is intended for physicists and acoustical engineers.

COVERAGE: The book is a collection of detailed research papers constituting the
proceedings of a conference held in Krynica from 17 to 26 September 1958 under
the auspices of the Institute of Technical Problems, Polish Academy of Sciences.

Card 1/8

Symposium on Electroacoustic Transducers

POL/5981

Ch. 3. Design and Properties of Electroacoustic Transducers	
28. Intermodulation distortion in loudspeakers. Joseph Merhaut	275
29. On the behavior of second-order gradient microphones in the near field. Carl Feik	289
30. Certain problems of loudspeakers in stereophony and pseudo- stereophony. <u>Waclaw Koltbuski</u>	299
31. Possibilities of increasing the efficiency of electromechanical transducers applied to electrodynamic loudspeakers. Zoltan Barat	305
32. Methods for mechanical damping of dynamic loudspeakers by the application of porous materials. L. Keibs	313
33. Combined electroacoustic transducers with the directivity charac- teristic rotating azimuthally. Jerzy K. Skrzela	327
34. Experimental research on the radial ultrasonic field of the cylindrical barium titanate transducer. T. Tarnoczy and A. Illenyi	337
35. Construction of up-to-date electroacoustic transducers. Stevan Milosavljevic	345

Card 6/8

Symposium on Electroacoustic Transducers

POL/5981

- | | |
|---|-----|
| 44. Wide-band loudspeaker with a variable angle diaphragm cone.
<u>Waclaw Kaltonski</u> | 415 |
| 45. Application of metallized plastics to diaphragms of condenser microphones. Jan Ryll-Nardzewski | 419 |
| 46. Application of transistors converters to the polarization of condenser transducers. Jan Ryll-Nardzewski | 421 |
| 47. Electrocavillary transducer. Bogna Klarner, Saturnina Woszczerowicz, and Mieczyslaw Kowalski | 435 |

AVAILABLE: Library of Congress

SUBJECT: Electric Power (Electronics)

Card 8/8

SK/dmp/gmp
7-5-62

KOLTONSKI, Waclaw, dr inz.

Optimum stereolistening conditions in living quarters. Przegl
telekom 34 no.9:257-262 S '62.

KOLTONSKI, Waclaw

The petroscope, an ultrasonic apparatus for testing building rocks.
Przegl geol 10 no.10:534-536 0 '62.

1. Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk,
Warszawa.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010011-4

KOLTONSKI, Wacław, dr inż.

Objective method of stereophonic effect control. Przegl telekom
[i.e. 36] no.1:1-3 Ja '63.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010011-4"

KOLTONSKI, Waclaw

Optimum listening conditions for stereo and its objective control.
Rozpr elektrotechn 9 no.1/2:117-136 '63.

1. Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk,
Zaklad Badania Organ, Warszawa.

KOLTONSKI, Waclaw, dr.; LISSOWSKI, Jan, mgr inz.;

Influence of ultrasound on activation of chemical processes.
Przegl telekom 35 [i.e. 36] no. 9:253-258 '63.

1. Zaklad Elektroakustyki, Politechnika, Warszawa.

KOLTONSKI, Waclaw

Testing some properties of a rock mass by the acoustic method.
Rozpr inz PAN 13 no.1:147-186 '65.

1. Department of Vibrations of the Institute of Basic Technical
Problems of the Polish Academy of Sciences, Warsaw. Submitted
May 8, 1964.

KOLTOV, O.N.

Manufacturing the IZ-15, semiautomatic internal grinding machine.
Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekhn.informe
18 no.5:28-29 My '65. (MIRA 1846)

KOLTOVER, A. N.

Davydovskiy, I. V. and Koltover, A. N. "On the morphology and mechanism of development of brain apoplexy in hypertonic disease", Trudy Chetvertoy sessii Akad. med. nauk SSSR, M_{oscow}, 1948, p. 30-33.

SO: U-2888, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statety, No. 2, 1949).

KOLTOVER, A. N.

Lungs - Tumors

Pulmonary adenomatosis in man. Arkhiv pat. 13 no. 6, 1951. (Moskva)
Iz Kafedry patologicheskoy anatomii (zav.-prof. I. V. Davydovskiy) lechebnogo fakul'teta
2-go Moskovskogo gosudarstvennogo meditsinskogo instituta imeni I. V. Stalina.
rcd. 6 Decmeber 1950.

SO: Monthly List of Russian Accessions, Library of Congress, April 1952 ~~1952~~, Uncl.

KOLTOVER, A.N. (Moskva)

Gastrointestinal changes in hypertension; gastrointestinal crisis
in hypertension. Arkh.pat. 18 no.8:30-39 '56. (MLRA 10:2)

1. Iz kafedry patologicheskoy anatomi (zav. - deystvitel'nyy chlen
AMN SSSR I.V.Davydovskiy) II Moskovskogo gosudarstvennogo meditsin-
skogo instituta imeni Stalina.

(GASTROINTESTINAL SYSTEM, in various diseases,
hypertension (Rus))

(HYPERTENSION, pathology,
gastrointestinal system (Rus))

EXCERPTA MEDICA Sec 5 Vol 12/10 General Path Oct 59

3044. THE MORPHOLOGY AND PATHOGENESIS OF HYPERTENSIVE CRISES
(Russian text) - Koltsova A. N. Dept. of Pathol. Anat., II Med. Inst.,
Moscow - ARKH. PATOL. 1959, 21/3 (15-21)

In hypertension the increase in blood pressure is less dangerous than the crises which are observed in this disease. The organs of 40 patients with hypertension and 5 subjects who had died from chronic renal diseases accompanied by uremia were examined. Two kinds of changes were observed in the vessels: (1) compensatory-adaptive processes such as hyperelastosis, muscular hypertrophy and elastofibrosis and (2) acute changes developing during the crisis - plasmatic imbibition of the vascular wall, necroses, aneurysms with rupture and stasis. Vascular spasms with paralysis of the vascular wall, and capillary and venous stasis were to be seen. Three degrees of severity of a crisis are distinguished: (1) rapidly disappearing plasmatic-haemorrhagic parietal imbibition, sometimes below the subendothelial layer; (2) deep damage of all parietal layers by protein masses and blood with necroses, small thrombi and miliary aneurysms; (3) vascular ruptures with haemorrhages (apoplexies). Sometimes the crises show no clinical signs though anatomical changes are present; they may have a limited localization but also may develop simultaneously in many vascular regions and organs. In order of frequency the pancreas comes first, followed by the brain, kidneys and gastro-intestinal tract. In the brain the crises are often accompanied by haemorrhages and ischaemic necroses; microaneurysms are also formed, which is only extremely rarely observed in the kidneys. Perivascular infiltrations are very frequent along the vessels of the gastro-intestinal tract. Brandt - Berlin (V, 18)

KOLTOVER, A.N.; FOMINA, I.G.; GANNUSHKINA, I.V.

Features of brain damage in thrombosis of the internal carotid artery at different levels. Arkh. pat. 22 no. 11:72-78 '60.
(MIRA 14:1)

(BRAIN-BLOOD VESSELS)

KOLTOVER, A.N.; GANNUSHKINA, I.V.; LYUDKOVSKAYA, I.G.

So-called obliterating endarteritis of the cerebral vessels in
thrombosis of the internal carotid artery. Zhur. nevr. i psikh. 61 no.5:657-664 '61. (MIRA 14:7)

1. Laboratoriya patomorfologii nervnoy sistemy (zav. - dotsent A.N. Koltov) Instituta nevrologii (dir. - prof. N.V. Konovalov) AMN SSSR, Moskva.
(THROMBOSIS) (ARTERIES-DISEASES) (BRAIN-BLOOD SUPPLY)

KOLTOVER, A.N.; LYUDKOVSKAYA, I.G.

Morphological changes in the brain following rupture of an aneurysm of the system of anterior cerebral arteries. Zhur. nevr. i psikh. 61 no.8:1182-1186 '61. (MIRA 15:3)

1. Laboratoriya patomorfologii nervnoy sistemy (zav. - dotsent A.N. Koltov) Instituta nevrologii (dir. - prof. N.V. Konovalov) AMN SSSR, Moskva.

(BRAIN)
(INTRACRANIAL ANEURYSMS)

KOLTOVER, A.N.; LYUJKOVSKAYA, I.G. (Fomina); VERESHCHAGIN, N.V. (Moskva)

Pathogenesis and morphology of disorders of cerebral blood circulation in diseases of the carotid and vertebral arteries. Arkh. pat. 24 no.8:18-26 '62. (MIRA 15:8)

1. Iz laboratorii patomorfologii nervnoy sistemy (zav. - dotsent A.N. Koltov) Instituta nevrologii AMN SSSR (dir. - prof. N.V. Konovalov).

(CEREBROVASCULAR DISEASE) (CAROTID ARTERY—DISEASES)
(VERTEBRAL ARTERY—DISEASES)

KOLTOVER, A. N.; LEBEDEVA, N. V.

Acutely developing foci of gray softening in the brain. Nauch.
trudy Inst. nevr. AMN SSSR no.1:474-485 '60.
(MIRA 15:7)

1. Institut nevrologii AMN SSSR.

(BRAIN-SOFTENING) (APOPLEXY)
(CEREBRAL ARTERIOSCLEROSIS)

KOLTOVER, A. N.; GANNUSHKINA, I. V.; FOMINA, I. G.

Morphological changes in the brain in thrombosis of the internal carotid artery. Report No. 1. Nauch. trudy Inst. nevr. AMN SSSR no.1:486-498 '60. (MIRA 15:7)

1. Institut nevrologii AMN SSSR.

(THROMBOSIS) (CAROTID ARTERY--DISEASES)
(CEREBRAL ARTERIOSCLEROSIS)

SHMIDT, Ye.V.; VERESHCHAGIN, N.V.; KOLTOVER, A.N.; BRAGINA, L.K.

Role of the pathological sinuosity of the carotid and vertebral arteries in disorders of cerebral circulation. Zhur.nevr.i psikh. 62 no.8:1149-1159 Ag '62. (MIRA 15:12)

1. Institut nevrologii (dir. -- prof. N.V.Konovalov) AMN SSSR, Moskva.

(CEREBROVASCULAR DISEASE)(VERTEERAL ARTERY—DISEASES)
(CAROTID ARTERY—DISEASES)

KOLTOVER, A.N.; LYUDKOVSKAYA, I.G.; GANNUSHKINA, I.V.

Morphological changes in the brain in various localizations
of the thrombus in the internal carotid artery. Nauch. inform.
Otd. nauch. med. inform. AMN SSSR no.1:56-58 '61.

(MIRA 16:11)

1. Institut nevrologii (direktor-- deystvitel'nyy chlen AMN
SSSR prof. N.N. Konovalov) AMN SSSR, Moskva.

*

S/254/63/000/002/002/003
0051/0309

AUTHOR:

Koltevoy, B.

TITLE:

The planet of riddles

PUBLICATIONAL:

Nauka i zhytta, no. 2, 1963, 28-29

A popular review discussing the possibilities of
Mars. There is 1 figure.

ZHITOMIRSKIY, V.K. [translator]; KOLTOVYY, B.I. [translator]; UZHIK, G.V.,
prof., red.; SIDOROV, V.Ya., red.; BELEVA, M.A., tekhn. red.

[High temperatures in aircraft structures; articles translated from
the English] Problemy vysokikh temperatur v aviatcionnykh konstruktsi-
iakh; sbornik statei. Moskva, Izd-vo inostr. lit-ry, 1961. 595 p.
(MIRA 14:12)

(High temperatures) (Thermal stresses) (Airplanes)

MASLANKA, Paweł; ARONSKI, Antoni; KOLTOWSKI, Ryszard

General anesthesia in removing foreign bodies from the esophagus.
with the aid of esophagoscopy. Polski przegl. chir. 33 no.7/9:
1066-1068 '61.

l. z II Kliniki Chirurgicznej AM we Wrocławiu Kierownik: prof. dr
W. Gross.
(ESOPHAGUS for bodies) (ANESTHESIA GENERAL)

BROSS, W.; KUSTRZYCKI, A.; DEC, L.; KOLTOWSKI, R.; BROSS, T.

Electrocardiographic studies in cases of defects in the interauricular septum. Kardiol. Pol. 5 no.1:13-18 '62.

1. Z II Kliniki Chirurgicznej Kierownik: prof. dr W. Bross i z
Kliniki Nefrologicznej AM we Wrocławiu Kierownik: prof. dr. Z. Wiktor.
(HEART SEPTUM abnorm) (ELECTROCARDIOGRAPHY)

SOKOLOV, Ye.Ya., doktor tekhn.nauk, prof.; KOLTS, George, inzh.

"Engineering and economic principles of heating from central stations" by I.D.Stenchesku. Reviewed by E.IA.Sokolov.
Teploenergetika 9 no.12:89 D '62. (MIRA 16:1)
(Heating from central stations) (Stenchesku, I.D.)

KOETS, George, kand. tekhn. nauk

Optimum value of the calculational hourly central heating coefficient in RNR systems. Izv. vys. ucheb. zav. s energ.
7 no.6:61-69 Je '64 (MIRA 17:8)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena kafedroy teploenergosnabzheniya promyshlennykh predpriyatiy.

KOLTS, Ye.

Cytologic classification of myeloma. Probl. gemat. i perel.
krovi no.2:28-31 '65. (MIRA 18: 1

1. 3-ya kafedra terapii (zav. - deystvitel'nyy chlen AMN
SSSR prof. I.A.Kassirskiy) TSentral'nogo instituta
usovershenstvovaniya vrachey, Moskva.

ISSERG, A. YE.; KOLTS, N. T.; ANDRESCOV, A. A., ENGS.

Furnaces

Conveyer furnace for tempering heavy steel sheets. Vest. mash., 32, No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1957, Uncl.

2

MIRSKIY, Yu.A.; KOLTSAYA, N.T.

Compartment-type furnaces for chemical and heat treatment. Metalloved.
i term. obr. met. no.9:8-9 S '64. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrotermicheskogo
oborudovaniya i institut "Teploproyekt".

4

~~KOLTSEV V.V.~~

Gaseous mixture for synthesizing benzene. V. V. Koltsev. U.S.S.R. 66,698, July 31, 1946. Methane is pyrolyzed and the C is gasified with the aid of steam. The resulting water gas is combined with the necessary quantity of H maintained in the pyrolysis of CH₄. M. Itaya.

M. Hwang

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APPENDIX METALLURGICAL LITERATURE CLASSIFICATION

THE BOSTONIAN

13341 80H497

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010011-4"

KOL'TSIN, V. M. and K. G. CHINIakov.

Tekhnicheskoe normirovanie formovochnykh rabot. Moskva, Mashgiz, 1948.
282 p. diagrs.

Technical rating of molding work.

DLC: TS230.C45

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

KOL'TSOV, A. D.

Kol'tsov, A. D. - "On an experiment of the organization of work of section agronomists in line with the agro-technical servicing of the kolkhozes," In symposium: Doklady 2-y Resp. agrotekhn. konf-tsii Mariyss. ASSR, Kozmodem'jansk, 1948, p. 30-52

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Stat'ey, No. 6, 1949).

KOL'TSOV, A.D.

Natural plant growing exhibits. Nauka i pered.op.v sel'khoz.
7 no.6:8-10 Je '57. (MERA 10:7)

1. Nachal'nik upravleniya propagandy i oformleniya Vsesoyuznoy
sel'skokhozyaystvennoy vystavki.
(Field crops--Exhibitions)

YAKUBOVSKIY, F.B., red.; BELYAYEV, B.I., red.; VOLNYANSKIY, A.K., red.; KAMINSKIY, D.N., red.; KOL'TSOV, A.G., red.; KUREK, N.M., red.; OVSYANKIN, V.I., red.; PRIVALOV, N.N., red.; KHRAMUSHIN, A.M., red.; ERISTOV, V.S., red.; UDOD, V.Ya., red.izd-va; TEMKINA, Ye.L., tekhn.red.

[Papers and reports of the section on industrial construction, assembling and specialized work of the All-Union Conference on Construction] Doklady i soobshcheniya. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1958. 438 p.

(MIRA 12:7)

1. Vsesoyuznoye soveshchaniye po stroitel'stviu. Moscow, 1958.
Sektsiya promyshlennogo stroitel'stva, montazhnykh i spetsializirovannykh rabot.

(Building)

2

521 512 785
V 211. INDUCTANCE OF THE CURRENT ~~WINDING~~ IN THE
DISC OF AN INDUCTION INSTRUMENT P. G. Kruse and

A. A. Kot'ko

BUREAU OF PHYSICS, 1955, No. 3, 15-18. In English.

Existing theories often fail to take into account the inductance of the effective circuit in the disc which may lead to an incorrect analysis of operation. Two alternative experimental methods for determining this inductance are given. The first considers the mechanical forces involved in the current which induces the flux and the induced current. These forces can be used except for an eccentric position of disc and pole. In the second experimental investigation the forces were measured by a mechanical dynamometer. The second method is preferred because it makes it easier to measure the flux when there is no presence and absence of the disc keeping the balance of system. A comparison of results of both methods appears to favor the induction method of forces, however, a further language and the other method is preferred.

Ryazan' Radio Inst. 1955

103-19-3-9/9

AUTHORS: Kol'tsov, A. A. , Kulikovskiy, L. F. (Kuybyshev)

TITLE: A Telemetering Compensation Device for Linear Displacements
(Telemetricheskoye kompensatsionnoye ustroystvo lineynykh
peremeshcheniy)

PERIODICAL: Avtomatika i Telemekhanika, 1958, Vol.19, Nr 3, pp.280-284(USSR)

ABSTRACT: One of the many possibilities for the use of a ferrodynamic measuring mechanism with independent excitation and rectilinear displacement of the mobile part is the application of two such measuring mechanisms in one set. This set is a telemetering apparatus for the measurement of small and large displacements or of other quantities convertible into these displacements. An induction servosystem of linear displacements is investigated here which can be used in automation and in remote control. The measuring mechanism was suggested by L. F. Kulikovskiy and A. A. Kol'tsov and worked out. The test sample was produced in the Laboratory of the Chair for "Automatic, Remotely Controlled and Measuring Instruments and Devices" in the Institute of the Industry, Kuybyshev. A short theory of the system and the technical

Card 1/2

103-19-3-9/9

A Telemetering Compensation Device for Linear Displacements

data of the construction are given. The experiments on the model of the apparatus showed high efficiency of the magnetic circuit. The factor of utilization of the magnetic flow was equal to 0,7. There are 7 figures and 1 reference which is Soviet.

SUBMITTED: May 31, 1957

Card 2/2

USCOMM-DC-60608

KOL'TSOV, A.A., Cand Tech Sci — (diss) "Study of ~~converter~~ transformer
verters ^{migrations} forms of large linear ~~conveyances~~." Kuybyshev, 1959. 16 pp with
drawings (Min of Higher Education USSR. Kuybyshev Industrial
Inst in V.V. Kuybyshev). 150 copies (EL, 39-59, 104)

transformer con -

48

14(5), 28(1)

SOV/152-59-1-27/31

AUTHORS: Kulikovskiy, L. F., Kol'tsov, A. A., Tsiber, A. L.

TITLE: Automatic Recording of the Product-volume in the Distillation of Light Petroleum Products (Avtomaticheskaya registratsiya ob'yema produkta razgonki svetlykh nefteproduktov).

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, 1959, Nr 1, pp 105 - 111 (USSR)

ABSTRACT: The researchers of the Kuybyshevskiy neftepererabatyvayushchiy zavod (Kuybyshev Petroleum Refinery) (Ref 1) constructed an apparatus for the automatic and accelerated distillation of light oil products. This apparatus draws samples in prescribed intervals, distils and records the temperature prevailing during steam generation as a function of time. The researchers of the chair for Avtomaticheskiye, telemekhanicheskiye i izmeritel'nyye pribory i ustroystva (Automatic, Telemechanic and Measuring Instruments and Devices of the Kuybyshev Industrial Institute) developed a device for automatic measuring and recording of volume of distillation products as a function of temperature. This device is used

Card 1/3

Automatic Recording of the Product-volume in the
Distillation of Light Petroleum Products

SOV/152-59-1-27/31

in conjunction with the apparatus for an accelerated distillation. An apparatus equipped with such a device is located directly at the place of sample taking where it makes a perfect automation of the crude benzine quality control possible. This apparatus reduces the time required for inspection and increases the accuracy of control. In addition, the number of persons required for operating can be reduced. Based on figure 1, operation of the device is illustrated and a detailed description is given. An inspection carried out under operating conditions gave proof of its reliability during operation. The advantage of this device is the fact that, when used in conjunction with an automatic electronic potentiometer, the latter will not have to be rebuilt. Other compliances constructed for similar purposes by other organizations (Refs 2,3) do not offer this advantage. The device can be employed also whenever an other quantity, (apart from temperature), which is also a function of temperature is to be recorded. There are 7 figures and 3 Soviet references.

Card 2/3

Automatic Recording of the Product-volume in the
Distillation of Light Petroleum Products

SOV/152-59-1-27/31

ASSOCIATION: Kuybyshevskiy industrial'nyy institut im. V. V. Kuybysheva
(Kuybyshev Industrial Institute imeni V. V. Kuybyshev)

SUBMITTED: September 26, 1958

Card 3/3

S/004/60/000/02/03/006

AUTHOR: Kol'tsov, A.

TITLE: Atomic Radio

PERIODICAL: Znaniye-Sila, 1960, No 2, pp 22 - 24

TEXT: The use of smaller and more economical semiconductor crystals and even of molecules instead of tubes²⁵ is discussed. Basing their research on the principle of energy exchange between active and passive atoms or on the emission and absorption of radio waves²⁵ in molecules, Lenin Prize Winners N.G. Basov and A.M. Prokhorov of the Fizicheskiy institut imeni P.N. Lebedeva, Akademii nauk SSSR (Institute of Physics imeni P.N. Lebedev of the Academy of Sciences of the USSR) decided to utilize this process for technical purposes. There were two problems: to obtain active molecules and to induce them to emit radio waves. After a number of not quite satisfactory tests the scientists decided to use paramagnetic crystals²⁵. To induce all active molecules to emit radio waves the former were placed in a resonator reconstructed similar to a radio receiver which could be adjusted to the required frequency. Because of this feature the resonator also serves as an amplifier of radio signals. Its amplifying capacity is 100-1,000 times

Card 1/2

S. 1...1.3/000/C02/004/004
A 125 A126

Kol'tsov, A.A.

TITLE: New electromechanical converter

PERIODICAL: Elektromekhanika, no. 2, 1963, 252 - 262

TEXT: The author describes an electromechanical converter with a movable core (Fig. 1) designed by him and M.F. Zaripov (Author's Certificate 125168). The converter is intended for checking and controlling any quantities that can be converted into displacements. It permits measuring both small and large displacements. The measuring circuit consists of a three-winding core and a movable core with electrical sheets. The iron core is split and has two measuring windings with a similarly distributed measuring winding. The magnetic flux can be considered as consisting of fluxes Φ_{m1} , Φ_{m2} , Φ_{ms} , Φ_{ml} and Φ_{mc} . The leakage flux Φ_{ms} does not cross the measuring winding. The flux linkage with the measuring winding, conditioned by Φ_{m3} , Φ_{m4} does not depend on the coordinate x of the movable core, but the flux linkage, conditioned by Φ_{ml} , Φ_{m2} and Φ_{mc} , is determined by this coordinate. The value of Φ_{m1} and Φ_{m2}

Card 1/3

S/144/63/000/002/004/004
A055/A126

New electromechanical converter

... the position of the movable core, but the value of the other fluxes is not. The author calculates (under certain assumptions) the converter voltage in open-circuit condition (i.e., the dependence of the measuring voltage E_2 on I_1) and its transconductance at a constant exciting current. He finds for E_2 :

$$E_2 = E_0 + S k_1 L_N, \quad (22)$$

where E_0 is the initial emf of the secondary winding,

$$k_1 = \frac{1}{L_N} \quad (5)$$

$$L_N = L - 2n. \quad (9)$$

and

This means that the converter characteristic is a straight line. A formula is obtained for E_0 . In load condition, the dependence of the load current on the movable-core coordinate is also linear. An important property of the magnetic circuit of the converter is the constancy of its permeability. Comparing the transconductance of the characteristic of the electromechanical converter with movable windings already examined by him (Elektromekhanika, no. 3, 1957), the author finds that the transconductance of the characteristic of the

new converter

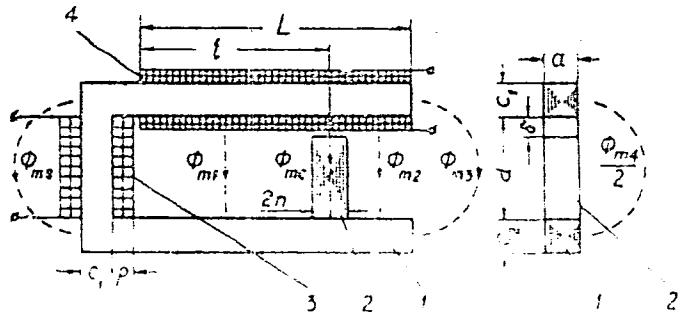
New electromechanical converter

S/144/63/000/002/004/004
4055/4126

converter with movable core cannot be rendered higher than that of the converter with fixed winding. The converter with movable core is mechanically stronger, its magnetic flux utilization factor is several times smaller; its weight and volume are greater and its copper consumption is higher. Some experimentally obtained characteristics are reproduced; they confirm sufficiently the calculated results. There are 8 figures and 1 table.

SUBMITTED: June 8, 1961

Figure 1



Card 3/3

KOL'TSOV, A.A.; KARABANOV, D.N.

Designing measuring circuits of automatic balanced electronic
bridges. Izv.vys.ucheb.zav.; prib. 7 no.2:39-45 '64.

(MIRA 18:4)

1. Ufimskiy neftyanoy institut. Rekomendovana kafedroy avtomatizatsii
proizvodstvennykh protsessov.

72/0256 55/000/007/0069/0069

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Chitsov, A. A.; Karabanyov, D. N.

... automatic balance bridge. Plate No. 1675

... i zobreteñi i to vystyku znakom.

- voltage circuit

The Author Certificate presents a multipoint automatic balanced bridge indicator communication lines intended for measuring relative resistances. The influence of switch contact resistance on the load bearing the power resistances to be measured are connected. The four-branch lines, which are alternately connected by the supply diagonals to the bridge, and by the measuring diagonals to the servomotor, see Fig. 1 on the Brig. art. has: 1 diagram.

INVESTIGATION: none

24 Jun 64

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ENCL: 3

OTHER:

SUB CODE: EC