

BALCERZYK, S. (Torun)

On classes of Abelian groups. Fund mat 51 no.2:149-178 '62.

1. Institute of Mathematics, Polish Academy of Sciences, Warsaw.

BALCERZYK, S. (Torun)

Power series as orthogonal expansions. Studia math 23 no.1:
31-39 '63.

1. Mathematical Institute, Polish Academy of Sciences, Warsaw.

BALCERZYK, S. (Torun)

Correction to "On classes of abelian groups." Fund math 56
no.2:199-202 '64.

1. Submitted January 15, 1964.

BALCERZYK, S.

The global dimension of the group rings of Abelian groups.
Fuhd math 55 no.3:293-301 '64.

1. Institute of Mathematics of the Polish Academy of Sciences,
Torun.

BALCEV, G.

Contribution to the operative technique of scapulectomy with a follow-up of four cases with preserved function of the shoulder. Nauch. tr. Vsesh med. inst. Sfiia 43 no.1:29-40 '64.

A new kind of thoracoplasty of the sagging thoracic half in kyphoscoliosis. Ibid.:41-50

1. Chair of Orthopedics and traumatology, (Director: Prof. B. Boicev).

BALCEV, G.

Contribution to the arthroplasty of the hip-joint. Nauch. tr.
vissh. med. inst. Sofia 43 no.4:21-28 '64.

1. Chair of Orthopedic surgery and Traumatology (Director:
prof. B. Boicev).

BALCKV, G.

Asymetric transposition of the ribs. A method for removal of costal gibbosity in kyphoscoliosis, with simultaneous accomplishment of vertebrodesis. Nauch. tr. vissh. med. inst. Sofia 43 no.6:19-28 '64

1. Chair of Orthopaedics and Traumatology. (Director: Prof. B. Boicev).

BALCEV, G.

New possibility for correction of the costal hunch in kyphoscoliosis.
Acta chir. orthop. traum. czech. 29 no.5:412-413 0 '62.
(KYPHOSIS) (SCOLIOSIS) (BONE TRANSPLANTATION)

BALCH, V.I., dotsent, kand. tekhn. nauk; GRINENKO, Ya.F., kand. ekonomicheskikh nauk

Efficiency of the new technological equipment and procedures
on industrial railroads. Trudy MITT no.203:189-206 '65.
(MIRA 18:6)

BALCH, V I

755.36
.B1

Voprosy ope ativenogo regulirovaniy perevozok (Problems of transport operating control) Moskva, Tranzhelisvat, 1953.

153 p. diagrs., tables.

"Perechen' ispol'zovannoy literatury": p. 154.

BALCH, V.I., kandidat tekhnicheskikh nauk.

Rhythmic operation is the most important condition for improving
the organization of freight haulage. Zhel.dor.transp. 37 no.3:
44-50 Pr '56. (MLRA 9:5)

(Railroads--Freight)

BALCH, V.I., dots., kand. tekhn. nauk

Coordinated operations at freight yards. Vest. TSNII MPS [17]
no. 7:18-21 N '58. (MIRA 11:12)

1. Moskovskiy institut inzhenerov shelezнодорожного транспорта
imeni I.V. Stalina.
(Railroads--Yards) (Loading and unloading)

BALCH, V.I., kand.tekhn.nauk, dotsent

Some problems in the organization of freight handling operations on industrial approach tracks. Trudy MIIT no. 113:102-116 '59.

(MIRA 14:5)

(Railroads—Freight) (Railroads, Industrial)

BAICH, V.I., kand.tekhn.nauk, dotsent

Use of progressive traction types in the railroad transportation of
industrial enterprises. Trudy MIIT no.143:90-103 '62. (MIRA 15:7)
(Railroads, Industrial)

BALCH, V.I., kand.tekhn.nauk, dotsent

Increase of the operative efficiency and automation of maneuvering
operations on industrial railroads. Trudy MIIT no.168:172-187
'63. (MIRA 17:4)

BALCHAN, T.

POLAND / Radiophysics. Application of Radiophysical Methods. I-9

Abs Jour : Ref Zhur - Fizika, No 5, 1957, No 12856

Author : Balohan, T.

Inst : Not given

Title : Telemetering Apparatus with Pulse Frequency Modulation

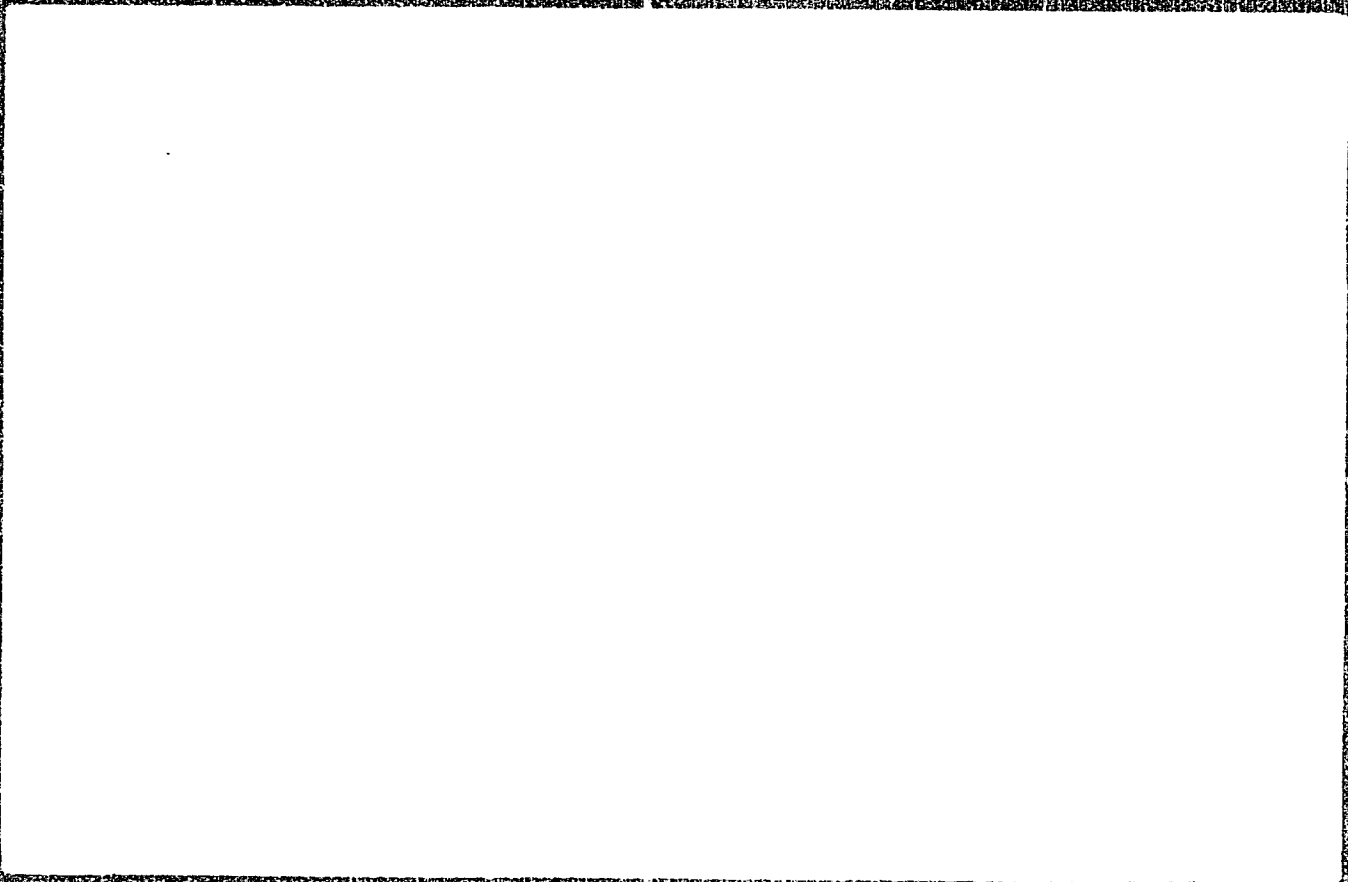
Orig Pub : Zesz. nauk. politechn. wrocl., 1956, No 11, 95-107

Abstract : Description of a universal apparatus with pulse frequency modulation. The apparatus can be used for telemetering over communication channels or over the high voltage electric power lines over several hundreds of kilometers.

Card : 1/1

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103

BALCH, V.I., dotsent

Selecting the means for maneuvering in industrial transportation.
Trudy MIIT no.161:187-197 '63. (MIRA 17:4)

BALCHAN, Tadeusz

Some problems of telemetry in Poland. Archiw automat 5 no.2:231-238
'60. (EEAI 9:10)

1. Politechnika Wroclawska, Katedra Telemekhaniki i Automatyki.
(Poland--Telemetry)

BALCHAN, T.

9,8000

P/031/62/007/003/004/013
D201/D303

AUTHOR: Balchan, Tadeusz

TITLE: Some aspects of telemetry performance

PERIODICAL: Archiwum Automatyki i Telemechaniki, v. 7, no. 3-4,
583-590

TEXT: A telemetering system with its pick-up is considered as an information channel. The amount of information is then given by the Shannon formula. According to whether the telemetering channel is continuous or of the sampled-data type, different meanings are assigned to the parameters in this formula and the above and associated Shannon formulas may be used for setting up the performance criteria and for solving the problems of filtration, coding, modulation, multiplexing and correction of the transmitted signals and the problems of reliability and economy of the telemetering channel. ✓

Card 1/2

Some aspects of telemetry performance

P/031/62/007/003/004/013
D201/D308

ASSOCIATION: Zakład Urządzeń Telemechanicznych Politechniki
Wrocławskiej (Laboratory of Telemechanic Installa-
tions of the Wrocław Polytechnic) ✓

Card 2/2

9.8000

P/031/62/007/003/005/013
D201/D308

AUTHOR: Bałchan, Tadeusz
TITLE: Some sources of errors in coded telemetering systems

PERIODICAL: Archiwum Automatyki i Telemechaniki, v. 7, no. 3-4,
593-598

TEXT: The author considers certain results of error analysis and conclusions reached during the design and construction of an analog of a coded telemetering system at the Wrocław Polytechnic. The analog was a 7 unit weighting arrangement, using electro-mechanical components. The basis sub-unit of the analog is a self-balancing compensator, consisting of a comparator, adder and several quantization elements. The systematic and supply voltage errors in the compensator and in its most important unit - the comparator - are discussed and the required design features of the latter are given. There are 3 figures. ✓B

ASSOCIATION: Zakład Urządzeń Telemechanicznych Politechniki Wrocławskiej (Laboratory of Telemechanic Installations of the Wrocław Polytechnic)

Card 1/1

POPOV, S.G., dotsent, kand.fiz.-matemat.nauk; BAL'CHENKO, V.I., student-diplomnik; NIKITINA, G.V., student-diplomnik

Horizontal tensing of the thread by air currents. Tekst. prom.
21 no.10:47-49 0 '61. (MIRA 14:10)

1. Moskovskiy gosudarstvennyy universitet.
(Yarn--Testing)

IONKOV, I.; TSOLOV, R.; STANCHEV, A.; DOSKOV, I.; SHISHMANOVA, IU.;
BALCHEV, A.; PENEVA, M.; SUKIASIAN, Kh.; MATEV, M.; NIKOLOV, St.;
ATANASOV, M.; TODOROV, B.; STEFANOVA, A.

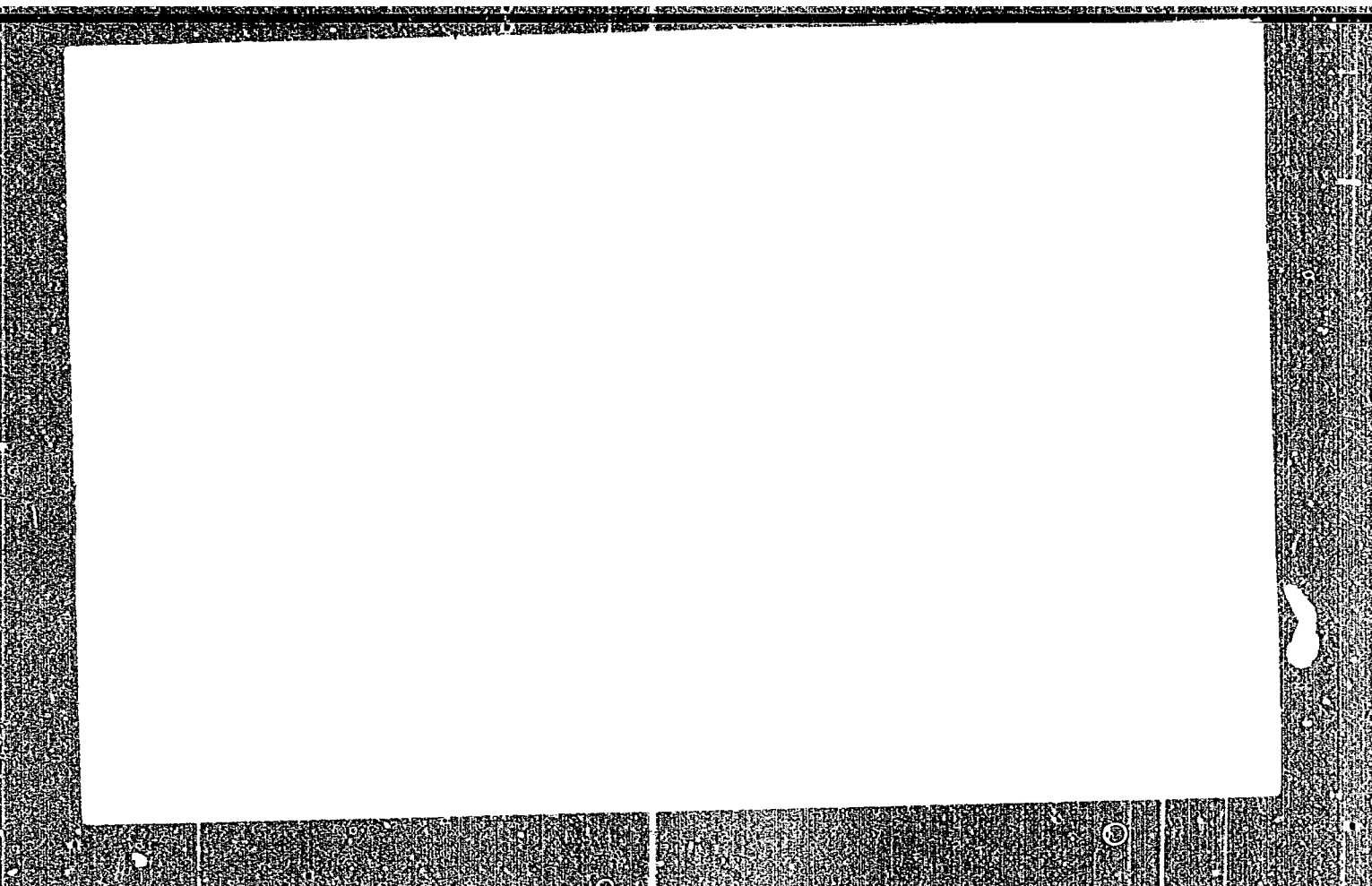
Clinical, pathophysiologic, and therapeutic aspects of tuberculous
exudative pleurisy. Nauch. tr. Med. akad. Chervenkov, Sofia 1 no.1:
117-137 1953.

1. Predstavena ot prof. Iv. Ionkov, zavezhdashch Katedrata po
propedevtika na vutreshnite bolesti.

(TUBERCULOSIS, PULMONARY, complications,
pleurisy, exudative)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103

"Combating Tuberculosis of the Bones and Joints." p. 2,
(ZDRAVEN FRONT, No. 51, Dec. 1954, Sofiya, Bulgaria)

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

BOICHEV, B., professor; BALCHEV, O.; KIROV, K.

Osteoarticular tuberculosis in Bulgaria and its therapy.
Khirurgia, Sofia 8 no.2:152-160 1955.

1. Institut za spetsialisatsia i usuvurshestvuvane na lekarite
klinika po ortopedia i travmatologija. Direktor: prof. B. Boichev
nauchno-issledovatel'ski institut pu tuberkuloza. Direktor: dots.
St. Tadorov Sanatorium za kostno-stavna tuberkuloza za vuzrast
krai pancharevo. Zaveshdats: O. Balchev, St. Nauchen sutrudnik
(TUBERCULOSIS, OSTEOARTICULAR, epidemiology,
in Bulgaria)

BALCHEV, O.

Appliance for the improvement of diagnosis of osteoarticular tuberculosis. Khirurgia, Sofia 9 no.4:373-374 1956.

(TUBERCULOSIS, OSTEOARTICULAR, diagnosis,
technic & appliance (Bul))

BAICHEV, G., dots.

Possibility of arthroplasty in osteoarticular tuberculosis. Khirurgia,
Sofia 11 no.5-6:557-558 1958.

(TUBERCULOSIS, OSTEOARTICULAR, surgery,
arthroplasty (Bul))

BALCHEV, G.

Arthrodesis of the hip joint. Khirurgia, Sofia 11 no.9:785-796 1958.

1. Vissh meditsinski institut--Sofia Klinika po ortopediia i travmatologia Direktor: prof. B. Boichev.

(TUBERCULOSIS, OSTEOARTICULAR, surgery,
hip arthrodesis (Bul))

BALCHEV, G.

Inlay-osteoplastic arthroplasty in osteoarticular tuberculosis of the knee. Nauch. tr. vissh. med. inst. Sofia 9 no.4:37-59 '59.

1. Predstavena ot prof. B. Boichev, zav. Katedrata po ortopediia i travmatologija.

(TUBERCULOSIS OSTEOARTICULAR surg) (KNEE surg)

BALCHEV, G.

Elongation arthrodesis of the hip joint. Nauch. tr. vissh. med. inst.
Sofia 9 no.4:61-81 '59.

1. Predstavena ot prof. B. Boichev, zav. Katedrata po ortopediia i
travmatologiya.

(HIP surg)

BALCHEV, O.

Role of the site in surgical therapy of osteoarticular tuberculosis.
Nauch. tr. vissh. med. inst. Sofia 9 no.4:83-104 '59.

1. Predstavena ot prof. B. Boichev, zav. Katedrata po ortopediia i
travmatologiya.

(TUBERCULOSIS OSTEOARTICULAR surg)

BALCHEV, G.

Tendovaginitis stenosans and its surgical therapy. Khirurgia, Sofia
13 no.2-3:244-247 '60.

1. Is Klinikata po ortopediia i travmatologija pri VMI - Sofia.
(TENOSYNOVITIS surg.)

BALCHEV, G., dots.

Possibility of arthroplasty in osteoarticular tuberculosis. Late results in 80 cases of various articular localisations. Khirurgiia, Sofia 13 no.2-3:280-283 '60.

1. Is Klinikata po ortopediia i travmatologiya pri VMI - Sofia.
(TUBERCULOSIS OSTEOARTICULAR surg.)

BALCHEV, G., dots.

The most frequent errors in the differential diagnosis of osteoarticular tuberculosis and neoplasms and their causes. Analysis of 84 roentgenological pictures and causes of diagnostic difficulties. Khirurgia, Sofia 14 no.2/3:284-289 '61.

(BONE AND BONES neopl)
(TUBERCULOSIS OSTEOARTICULAR diag)

BALCHEV, G., dots.; DZHEROVA, N.

Certain observations on the duration of antituberculous bactericidal activity on bone tumors. Khirurgiia, Sofia 14 no.2/3:319-321 '61.

(BONE AND BONES neopl) (ANTITUBERCULAR AGENTS pharmacol)

BALCHEV, G., dots.

On the problem of echinococcosis of the bone and its surgical therapy. Khirurgia, Sofia 14 no.2/3:327-329 '61.

(BONE DISEASES surg) (ECHINOCOCCOSIS surg)

BALCHEV, G., dots.; LEREOV, Zh.

Surgical therapy of tuberculous sacro-ileitis and sacral osteitis.
Khirurgia, Sofia 14 no.2/3:331-334 '61.

(TUBERCULOSIS OSTEOARTICULAR surg)

BALCHEV, G., dotsent

Present possibilities of the restoration and functional rehabilitation in severe tuberculosis involving tuberculous arthritis, surgical therapy and our experiences. Khirurgia 15 no.2/3:131-141 '62.

1. Is Klinika po ortopediia i travmatologiya pri VMI [Vissh meditsinski institut] Sofia.

(TUBERCULOSIS OSTEOARTICULAR surg)

BALCHEV, G., dotsent; DZHEROVA, N.

Inlay osteochondriplasty and inlay osteochondroarthroplasty and enlarged indications for a functional type of surgery in tuberculosis of the knee joint. (Development of synovectomy and arthroplasty in tuberculosis of the knee joint).
Khirurgia 15 no.2/3:189 '62.

(KNEE dis)
(TUBERCULOSIS OSTEOARTICULAR surg)

BALCHEV, G., dotsent; LUPO, M.

Functional operation on the shoulder joint. Khirurgiia 15
no.2/3:190-191 '62.

1. Iz Bolnitsa za kostno-stavna tuberkuloza - Pancharevo.
(TUBERCULOSIS OSTEOARTICULAR surg)
(SHOULDER dis)

BALCHEV, G., dotsent; KALINKOV, S1.

Remote results of arthroplasty with or without interposition
in various forms of tuberculous coxitis. Khirurgia 15 no.2/3:
224-228 '62.

1. Is Bolnitsa za kostno-stavna tuberkuloza - Pancharevo.
(TUBERCULOSIS OSTEOARTICULAR surg)
(HIP dis)

BALCHEV, G., dotsent; KALEV, Iv.

Indications and contra-indications for arthroplastic surgery.
Khirurgia 15 no.2/3:234-235 '62.

1. Iz Klinika po ortopediia i travmatologiya pri VMI [Vishsh
meditsinski institut] - Sofiia i Bolnitsa za kostno-stavna
tuberkuloza - Pancharevo,
(JOINTS surg)
(TUBERCULOSIS OSTEOARTICULAR surg)

BALCHEV, G., dotsent; KOSTOV

Analysis of errors in surgical technics and postoperative therapy resulting in failure of functional types of operations used in osteoarticular tuberculosis. Khirurgia 15 no.2/3: 290-293 '62.

1. Iz Bolnitsa za kostno-stavna tuberkuloza - Pancharevo.
(TUBERCULOSIS OSTEOARTICULAR surg)

BALCHEV, G., dotsent

Pectus infundibiliforme and its treatment. A new surgical
technic for its correction. Khirurgia 15 no.7:591-600 '62.

1. Vissh meditsinski institut - Sofia. Klinika po ortopediia
i travmatologiya. Direktor: prof. B. Boichev.
(THORACIC DISEASES)

Dr. M. V. G. G. G.

Modern surgical treatment of joint diseases in old age.
Khirurgiia 17 no.2:247-249 1961.

1. Iz Klinika po ortopediia i travmatologija pri VMI
[Viseh meditsinski institut], Sofia.

BULGARIA/Diseases of Farm Animals - Diseases Caused by Bacteria
and Fungi.

R-2

Abs Jour : Ref Zhur - Biol., No 11, 1958, 50160

Author : Dalchev, Marin

Inst : Ministry of Agriculture.

Title : Examining Milk as Diagnosis of Brucellosis in Large Horned
Cattle by Employing the Ring Reaction Test with Antigen
Stained by a New Method.

Orig Pub : Nauchn. tr. M-vo zemled. Ser. zhivotnovodstvo i vet. delo,
1956, 1, No 3, 25028.

Abstract : The Ring Reaction Test was performed on whole milk. Best
results were obtained when congo red stained antigen was
used. These test results concurred well with the results
of the agglutination reaction according to the Wright me-
thod; here, the number of positive indicators was larger

Card 1/2

- 6 -

BULGARIA/Diseases of Farm Animals - Diseases Caused by Bacteria
and Fungi.

R-2

Abs Jour : Ref Zhur - Biol., No 11, 1958, 50160

than the number of doubtful ones. The author used the above method for blood tests as well, by adding 0.2 ml of blood serum from the test animal and 2 drops of antigen to 2 ml of milk from healthy animals. The obtained results were almost identical to the results of milk tests performed on sick animals. -- From the author's summary.

Card 2/2

COUNTRY : U.S.S.R.
 CATEGORY : Diseases of Farm Animals. Diseases caused by
 bacteria and fungi
 ABS. JOUR. : RZhBiol., No. 6 1959, No. 21970
 AUTHOR : Blizny, I.
 INST. : ~~Institute~~ Section of Biology and Medicine
 TITLE : Diagnosis of Brucellosis in cattle by means of
 a ring test with milk and antigen stained by
 a new original method.
 ORIG. PUB. : Izv. Otd. biol. i med. nauki, SSSR, 1958,
 2, No.1, 127-135
 ABSTRACT : It was shown that antigen for the ring test with
 milk, stained with Congo red, possesses high
 sensitivity. The results of this test almost
 completely coincide with the results of analysis
 of the serum of the same animals according to
 Science

CARD: 1/2

COUNTRY	:	
CATEGORY	:	3
ABS. JOUR.	:	RZhBiol., No. 6 1959, No. 1970
AUTHOR	:	
INST.	:	
TITLE	:	
ORIG. PUB.	:	
ABSTRACT cont'd.	:	Bright's and Suddleson's methods. The same test was also applied for the blood analysis, mixing 0.1 ml of serum of the investigated animal with 2 ml of milk from the healthy animal and with 1 ml of antigen. The results obtained coincided with results of the analysis of the milk of the same animals.-- From the author's summary.
CARD:		2/2

Microbiology

REF. NO. : Ref Char-Microbiol., No. 4, 1959, No. 10032

AUTHOR : Blichay, M. L.

INSTR. :

TITLE : Practical method of removal of S-variant from Brucella cultures.

REF. NO. : Rev. Oto. Biol. 1 ed. n. Brlp. W. Ger.
 Ochs. Biol. 1 ed., 1957, No. 3, 167-173

ABSTRACT : A 2 - 3 day-old agar culture of Brucella was mixed with 10 ml of sterile water, transferred to a sterile test tube, and left for twenty-four hours in the refrigerator for sedimentation of the S-variant. In the top layer of a homogeneous suspension was placed on potato or liver agar, a pure culture of S-variant was obtained. The author prefers this method of selection of S-variant for morphological reasons, since he re-

1/2

COUNTRY
CATEGORY

AFS. JOUR.

AUTHOR
INST.
TITLE

NO. 14922

ORIG. TUE.

ABSTRACT : covered a larger yield of antiven in the
first instance than in the second.

CARD:

2/2

BALCHEV, M.

Some peculiarities of the hemolytic reaction to various
quantitative correlations between hemolysin and erythrocytes.
Izv Vet inst zaraz parazit 7 123-129 '63.

BALCHEVA, B.; KEVORKIAN, K.

Control of pain in the treatment of caries. Stomatologia, Sofia
no.6:331-336 1953.

1. Iz Katedrata po terapevtichna stomatologia pri Med. akademii
V.Chervenkov - Sofia. Zav. katedrata: prof. Svrakov.

(DENTAL CARIES, therapy,

pain control

(PAIN, therapy,
in dent.caries)

BALCHNEVA, M.; KODUKOVA, A.; LEVI, M.; ATANASOVA, M.; TSOLOV, Khr.

Chronic benzene poisoning and its manifestations in the oral
mucosa. Stomatologiya no.2:74-81 '54. (REAL 3:7)

1. Iz Katedrata po terapevtichna stomatologiya. Zav. katedrata:
prof. Svrakov. 2. Iz Republikanskiia nauchno-issledovatel'ski
institut po trudova khigiena i profesionali bolesti. Direktor:
M. Lukanov.

(BENZENE, poisoning,

*manifest., oral mucosa)

(MOUTH, in various diseases,

*benzene, manifest., oral mucosa)

(POISONING,

*benzene, manifest., oral mucosa)

BAICHNEVA, N.; LEVI, N.

Certain theories on etiopathogenesis of amphotosis. Stomatologia,
Sofia no.5:276-280 1954.

1. Iz Katedrata po terapetichna stomatologii. Zav. katedrata: prof.
D.Svrakov.

(PERIODONTIUM, diseases,
etiopathogen., theories)

BALCHEVA, B., St. asistent.

Biological method of therapy of pulpitis. Stomatologia, Sofia
No.1:27-33 1955.

1. Is Katedrata po terapevtichna stomatologia pri Visshia
meditsinski institut Vulko Chervenkov Sofia, sav. katedrata:
prof. D. Svrakov.

(DENTAL PULP, diseases,
pulpitis, ther.)

BALCHEVA, E.; ATANASOVA, E.; PAPAZOVA, M.

Changes of salivary proteins produced by experimental neurodystrophic syndrome in periodontosis. Izv. inst. fiziol. 5:139-145 '62.

(SALIVA chem) (PROTEINS metab) (PERIODONTIUM physiol)

VASIL'YEV, Sergey Vladimirovich; BAL'CHEVA, S.M., red.; LEONOVA, L.P.,
tekh.n.red.

[Mechanization and automation of production processes at the
"Avtopribor" Plant] Mekhanizatsiia i avtomatizatsiia proizvod-
stvennykh protsessov na zavode "Avtopribor." Vladimir, Vla-
dimirskoe knizhnoe izd-vo, 1958. 22 p. (MIRA 13:3)
(Vladimir--Automobiles--Apparatus and supplies)
(Automation)

POTAPOVA, N.N.; KIRINA, V.N.; FEDOROVA, Z.M.; POSTNOVA, N.P.; DRUZHKOVA,
A.N., red.; BAL'CHIEVA, S.M., red.; LEMONOVA, L.P., tekhn.red.

[Economy of the city of Vladimir; statistical collection]
Narodnoe khoziaistvo goroda Vladimira; statisticheskii sbornik.
Vladimir, Vladimirskoe knizhnoe izd-vo, 1958. 38 p. (MIRA 12:12)

1. Vladimir (Province) Oblastnoye statisticheskoye upravleniye.
2. Statisticheskoye upravleniye Vladimirskoy oblasti (for Potapova, Kirina, Fedorova, Postnova). 3. Nachal'nik statisticheskogo upravleniya Vladimirskoy oblasti (for Drushkov).
(Vladimir--Statistics)

KAFENGAUZ, Aleksandr Petrovich; BAL'CHEVA, S.M., red.; LYONOVA, L.P., tekhn.
red.

[Synthetic foam plastics and porous plastics] Sinteticheskie
penoplasty i poroplasty. Vladimir, Vladimirovskoe knizhnoe izd-vo,
1959. 56 p.

(Plastics)

(MIRA 13:6)

RUNUSHKIN, Edison Alekseyevich; RUDNEV, Vladimir Fedorovich; BAL'CHEVA,
S.M., red.; LEONOVA, L.P., tekhn. red.

[Industry today and tomorrow] Segodnia i zavtra promyshlennosti.
Vladimir, Vladimirskoe knizhnoe izd-vo, 1960. 68 p.

(MIRA 14:12)

(Vladimir Province—Industries)

BAL'CHENSKAYA, T.V. (Moskva)

Catheterization. Fel'd. i akush. no.11:42-46 N '54. (MIRA 7:12)

(CATHETERIZATION
urogenital in men, technic)

AUTHOR

TITLE

PERIODICAL

ABSTRACT

BALCHITIS, A.A., Ing. (Vorkuta)

105-7.3/29

Induction Law for a Capacitance Machine

(Zakon induktsii dlya verkhosnoy mashiny. Russian)

Elektrichestvo, 1957, Nr 7, pp 11 - 14 (U.S.S.R.)

Capacitance machines are little known. They work according to the principle of a mechanic change of the electric field. They are used for experimental purposes in order to obtain high and super-high voltages. An obstacle for the further development of these machines was also the lack of sufficient theory. And yet a capacitance machine is much more simple than an electro-magnetic one, and it can be built for voltages of from 5 - 5,000 kV and more. Their power can reach several hundred megawatts with a rather high efficiency degree. In this work the principle of operation and the circular process of a capacitance machine is described. The author deduces the law of induction of such a machine and shows that, if the inner losses of the machine are neglected, current is induced in a capacitive generator. The law reads : $i = \frac{dN}{dt}$

i.e. the current induced by means of the capacitive machine is equal to the velocity of the flux change of the electric displacement vector in the operating aperture of the machine. As this equation can be brought to the form of the 1st MAXWELL equation the latter can be re-

Card 1/2

Induction Law for a Capacitance Machine

105-7-3'29

garded as the general expression for the induction law of a capacitance machine. The author states that in consequence of the here described investigation it is obvious that only a small sector of the circular process is used for the generation of electric current while the rest of the time is used for preparations. (With 4 illustrations and 4 Slavic references).

ASSOCIATION
PRESENTED BY
SUBMITTED
AVAILABLE

Not given

19.12.1956

Library of Congress

Card 2/2

24.2000 Balčytis

AUTHOR: (Bal'chitis), A.A. , Aspirant

66539

SOV/144-59-10-5/20

TITLE: A Capacitive DC Generator Operating on New Principles

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1959, Nr 10, pp 35 - 43 (USSR)

ABSTRACT: This article discusses the possibility of making a capacitive high-voltage DC generator without commutator based on the induction of current in a conducting circuit when an electric field is displaced relative to the circuit. The considerations are based on the principle that conversion of electrical energy to mechanical, or vice versa, in a capacitive system can only occur if the capacitance of the system alters. A schematic diagram of an elementary capacitive generator is shown in Figure 1. The capacitive system of this simple machine consists of two partial capacitances, corresponding to each of the two plates. Excitation is provided from an external source of DC and applied between the rotor and one of the plates. This plate is connected to its counterpart through a rectifier. The load is connected between the other two ends of the plates. As the rotor turns, the

Card1/4

66539

SOV/144-59-10-5/20
Operating on New Principles

A Capacitative DC Generator

partial capacitances of the system vary but their sum remains constant. During the first half-cycle, one of the plates is discharging into the load; during the second half-cycle, this plate is being recharged from the other through the rectifier. As a single such elementary circuit generates only intermittent DC, two must be provided to generate current continuously. It will be noticed that within the generator the load current does not flow through a metal circuit but through the capacitance as a displacement current. The energy conversion that occurs during the operation of such a generator is then explained.

This capacitative machine can be much simpler and cheaper than others and it has considerable advantages over induction machines for generating high voltages. Such machines could be built for outputs at millions of volts and could be used in super-high voltage DC transmission, in X-ray equipment or accelerators.

As the rotor of the new machine is a solid metal disc with no windings it can be driven at very high speeds; it

4

Card2/4

66539

SOV/144-59-10-5/20

A Capacitative DC Generator Operation on New Principles

particularly if it worked under high vacuum so that there was no windage loss; the efficiency should then be very high.

It may be possible by the use of electrets between the plates and the rotor to avoid the need for an external DC supply.

It is considered that machines of the new type will be widely used when DC is required at high voltage, particularly if it is desirable to drive the generator at high speeds without reduction gearing.

There are 2 figures and 2 Soviet references.

ASSOCIATION: Kafedra proyektirovaniya promyshlennogo stroitel'stva,
Kaunasskiy politekhnicheskii institut (Chair of Planning of
Industrial Construction, Kaunas Polytechnical
Institute)

SUBMITTED: June 30, 1959

Card 4/4

4

L 22677-66 ENT(1)

ACC NR: AP6006710

SOURCE CODE: UR/0105/65/000/005/0053/0059

47

46

13

AUTHOR: Dal'chits, A. A.

ORG: Kaunas Polytechnic Institute (Kaunaskiy politekhnicheskij institut)

TITLE: Rotor electrodes and main-circuit current in a d-c capacitive induction machine

SOURCE: Elektrichestvo, no. 5, 1965, 53-59

TOPIC TAGS: electric generator, electric inductance, electric capacitance, electric current, direct current, electrode, electric rotating equipment part

ABSTRACT: The principle of operation of the d-c capacitive induction generator is explained. The nature of current variation is determined by the distribution of the electric-field induction in the machine airgap. The closed rotor-electrode system has these advantages over the open system: lesser rotor reaction, lower ripple, better commutation, and no breaking of the main circuit. Multi-row electrode systems can be connected in different ways similarly to the well-known types of armature windings in conventional magnetic-induction machines. Simple "lap" and "wave" schemes of electrode connection are considered. The feasibility of the

Card 1/2

UDC: 621.319.33

L 22677-66

ACC NR: AP6006710

closed rotor-electrode system was corroborated by experiments with 124-mm disk-rotor model which had $2p = 6$ poles and a field of 30 kv/cm. Experimental no-load (or short-circuit) and external characteristics of the model are shown. "In conclusion, the author wishes to thank P. A. Baskutis for his help in the work." Orig. art. has: 8 figures and 34 formulas.

SUB CODE: 09 / SUBM DATE: 25Sep63 / ORIG REF: 002

Card 2/2

ACC NR: AP7003467

SOURCE CODE: UR/0236/66/000/002/0167/0177

AUTHOR: Baltrunas, I.I.; Bal'chitis, I.Yu.; Balcytis, J.; Myamura, A.A.;
Nemura, A.; Baltrunas, J.

ORG: Institute of Power and Electrical Engineering, Academy of Sciences,
Lithuanian SSSR (Institut energetiki i elektrotekniki. Akademiya
nauk Litovskoy SSSR)

TITLE: Dynamics of an extremal control system which is invariant with
respect to disturbances

SOURCE: AN LitSSR. Trudy. Seriya B. Fiziko-matematicheskkiye,
khimicheskkiye, geologicheskkiye i tekhnicheskkiye nauki, no. 2, 1966,
167-177

TOPIC TAGS: extremal control system; self adaptive control
invariant control system, CONTROL SYSTEM STABILITY

ABSTRACT: The dynamics and stability of a continuous invariant (with respect to
disturbances) extremal control system with synchronous detection of
disturbances and with harmonic searching for signals is analyzed in the
case where the controlled object has a variable delay, under the
assumption that variations in the parameters of the controlled object
are sufficiently small (quasi-stationary regime). The control process is

Card 1/2

VDC: none

ACC NR: AP7003467

optimized with respect to disturbances by continuous automatic adjustment of the correcting device parameters (with respect to their deviations) in accordance with the optimality criterion

$$J = \frac{1}{T} \int_0^T X_{out}^2(t) dt, \quad (1)$$

where X_{out} is the output coordinate and T is the time. The case is analyzed here when the extremal system is constructed so that the amplification factor $k(t)$ and the delay $\tau(t)$ of the correcting device have to be adjusted. Differential equations describing the dynamics of the adjusting process are derived for channels $k(t)$ and $\tau(t)$. The problem of the stability of the adjusting process is analyzed for both channels and the stability conditions are established on the basis of the derived equations. It is pointed out that the method used and the results obtained can be utilized in analyzing certain classes of self-adjusting systems. [LK]

SUB CODE: 12/ SUBM DATE: 28Dec65/ ORIG REF: 007/ ATD PRESS: 5114

Card 2/2

BAL'CHUGOV, A.V.

36337 Protiv nepravil'nykh ustanovok v le sovodstve. (Obzor literatury) Sov.
Agronomiya, 1949, No. 11, S. 92-93

SO: Letopis' Zhurnal' nykh Statey, No. 49, 1949

BALICHNEV, A. V.

"Experiments in the Planting of Forests." Card Agr Sci, Omsk
Agricultural Inst, Omsk, 1953. (RZhBiol, No 3, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (10)

So: Sum. No. 481, 5 May 55

APAMAS'YENVA, A.L., kand.biol.nauk; BAYERTUYEV, A.A., kand.sel'skokhozyaystvennykh nauk; BAL'CHUGOV, A.Y., kand.sel'skokhozyaystvennykh nauk; BELOZEROVA, N.A., agronom; BELOZOROV, A.T., kand.sel'skokhozyaystvennykh nauk; MAKSIMENKO, V.P., agronom; BERNIKOV, V.V., doktor sel'skokhozyaystvennykh nauk; BOGOMYAGKOV, S.T., kand.sel'skokhozyaystvennykh nauk; VOLYNETS, O.S., agronom; BODROV, M.S., kand.sel'skokhozyaystvennykh nauk; BOGOSLAVSKIY, V.P., kand.tekhn.nauk; KHRUPPA, I.P., kand.tekhn.nauk; VERNER, A.R., doktor biol.nauk; VOZBUTSKAYA, A.Ye., kand.sel'skokhozyaystvennykh nauk; VOINOV, P.A., kand.sel'skokhozyaystvennykh nauk; VYSOKOS, G.P., kand.biol.nauk; GULDIN, M.V., inzhener-mekhanik; GERASIMOV, S.A., kand.tekhn.nauk; GORSHENIN, K.P., doktor sel'skokhozyaystvennykh nauk; YELENEV, A.V., inzhener-mekhanik; GERASKEVICH, S.V., mekhanik [deceased]; ZHARIKOVA, L.D., kand.sel'skokhozyaystvennykh nauk; ZHEGALOV, I.S., kand.tekhn.nauk; ZIMINA, Ye.A., agronom; BAPANOV, V.V., kand.tekhn.nauk; PAVLOV, V.D.; IVANOV, V.K., kand.sel'skokhozyaystvennykh nauk; KAPLAN, S.M., kand.sel'skokhozyaystvennykh nauk; KATIN-YARTSEV, L.V., kand.sel'skokhozyaystvennykh nauk; KOPYTRIN, V.I., doktor sel'skokhozyaystvennykh nauk; KOCHERGIN, A.Ye., kand.sel'skokhozyaystvennykh nauk; KOZHEVNIKOV, A.R., kand.sel'skokhozyaystvennykh nauk; KUZNETSOV, I.N., kand.sel'skokhozyaystvennykh nauk; LAMBIN, A.Z., doktor biol.nauk; LEONT'YEV, S.I., kand.sel'skokhozyaystvennykh nauk; MAYBORODA, N.M., kand.sel'skokhozyaystvennykh nauk; MAKAROVA, G.I., kand.sel'skokhozyaystvennykh nauk; MEL'NIKOV, G.A., inzhener; ZHDANOV, B.A., kand.sel'skokhozyaystvennykh nauk; MIKHAYLENKO, M.A., kand.sel'skokhozyaystvennykh nauk; MAGILEVTSEVA, N.A., kand.sel'skokhozyaystvennykh nauk;

(Continued on next card)

AYANAS'YEVA, A.L.... (continued) Card 2.

NIKIFOROV, P.Ye., kand.sel'skokhozyaystvennykh nauk; NENASHEV, N.I.,
lesovod; PERVUSHINA, A.N., agronom; PLOTNIKOV, N.A., kand.biol.nauk;
L.G.; kand.sel'skokhozyaystvennykh nauk; PAVLOV, V.D., kand.tekhn.
nauk; PRUTSKOVA, M.G., kand.sel'skokhozyaystvennykh nauk; GURCHENKO,
V.S., agronom; POPOVA, G.I., kand. sel'skokhozyaystvennykh nauk;
PORTYANKO, A.F., agronom; RUCHKIN, V.N., prof.; RUSHKOVSKIY, T.V.,
agronom; SAVITSKIY, M.S., kand.sel'skokhozyaystvennykh nauk; BOLDIN,
D.T., agronom; NESTEROVA, A.V., agronom; SERAFIMOVICH, L.B., kand.
tekhn.nauk; SMIRNOV, I.N., kand.sel'skokhozyaystvennykh nauk;
SERNBRYANSKAYA, P.I., kand.tekhn.nauk; TOKHTUYEV, A.V., kand. sel'sko-
khozyaystvennykh nauk; PAL'KO, O.S., iznh.; PEDIYUSHIN, A.V., doktor
biol.nauk; SHEVLYAGIN, A.I., kand.sel'skokhozyaystvennykh nauk;
YUFEROV, V.A., kand.sel'skokhozyaystvennykh nauk; YAKHTENPEL'D, P.A.,
kand.sel'skokhozyaystvennykh nauk; SEMENOVSKIY, A.A., red.; GOR'KOVA,
Z.D., tekhn.red.

[Handbook for Siberian agriculturists] Spravochnaya kniga agronoma
Sibiri. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol.1. 1957. 964 p.
(Siberia--Agriculture) (MIRA 11:2)

KOZIK, B.I.; BALCHUGOVA, V.A.

Obtaining synthetic rubber on a base of dimethyl styrene.
Trudy BashNI NP no.6:205-207 '63. (MIRA 17:5)

BAL'CHUK, G.A., kand. tekhn. nauk; VASYUNIN, S.V., inzh.

Planned and actual dimensions of welded angle joints in
hull structures. Sudostroenie 25 no.6:40-42 Je '59.
(MIRA 12:9)
(Hulls (Naval architecture)--Welding))

BAL'CHYUNAS, A.

Cand Agr Sci - (diss) "Change in the physical properties and water regime of drained soils under the influence of several agro-reclamation measures under conditions of the Lithuanian SSR." Kaunas, 1961. 27 pp; (Ministry of Agriculture Lithuanian SSR, Lith Agri Academy); 180 copies; free; (KL, 10-61 sup, 221)

BAL'CHYUNAS, B. I.

BAL'CHYUNAS, B. I. -- "Coccidiosis of Chicks and Measures to Combat It in the Lithuanian SSR." Acad Sci Lithuanian SSR. Inst of Biology. Kaunas, 1955. (Dissertation for the Degree of Candidate in Veterinary Sciences.)

SO: Knizhnaya Letopis', No 5, Moscow, Feb 1956

BAL'CHYUNAS, I. I., CAND VET SCI, "SIGNIFICANCE OF EGGS,
OBTAINED FROM TUBERCULAR HENS, IN THE SPREAD OF TUBERCULOSIS
AND EARLY DIAGNOSIS OF TUBERCULOSIS IN CHICKS." KAUNAS, 1961.
(STATE COM FOR HIGHER AND SEC SPEC ED OF THE COUNCIL OF MINI-
STERS LISSR, LITHUANIAN AOR ACAD). (KL, 3-61, 227).

BALCIKONYTE, S.; GLINSKIENE, V.; KRASAUSKAS, V.; KURTINYTE, G.;
STUKONIS, M.

Experience with combined preventive examinations for the
population. Sveik. apsaug. 8 no.5:38-43 '63.

1. Kupiskio rajono ligonine. Vyr. gyd. - G. Kurtinyte. LTSR
Onkologijos m. t. institutas. Direktorius - med. m. kand.
A. Telycenas.

(PREVENTIVE MEDICINE) (HEALTH SURVEYS)

ROMANIA

BAICUARI, B., Eng, Secretary General (Secretar General) and
STANU, E., Eng of the Central "Gostat" Trust (Trustul Central
Gostat).

"The Development of Animal Breeding within the Framework
of the State Farms."

Bucharest, Revista de Zootehnie si Medicina Veterinara,
Vol 11, no 1, Jan 1963, pp 29-35.

Abstract: Emphasizes that the state spent over 1.3 billion
lei between 1955 and 1962 for the development of the zoo-
technical sector in the state farms, illustrating the eco-
nomic efficiency of these investments with the fact that
during the corresponding period the number of large cattle
units increased by about 2.9 times and the value of aver-
all production by over 2.8 times. Also shows the increases
in the stock and density of animals, the annual average
production per animal, and the evolution of deliveries of
products. Includes 6 tables.

BALCO, H.

"Report on a national seminar attended by meteorologists, hydrologists, and water-power engineers, April 22-25, 1958." p.87

VODOHOSPODARSKY CASOPIS (Slovenska akademiavied) Bratislava, Czechoslovakia,
Vol. 7, no. 1, 1959

Monthly List of East European Accessions (SEAI) LC, Vol. 8, No. 6, June 1959

Uncl.

BALCO, M.

"A natural hydrologic laboratory of the Slovak Academy of Sciences."
p. 191.

VOĎOHOSPODARSKÝ CASOPIS. (Slovenská akadémia vied). Bratislava,
Czechoslovakia, Vol. 7, No. 2, 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6,
August 1959.
Uncla.

BALCO, M.

Outflow curves and their application to the forecast of water passage in the
Danube near Bratislava. p. 199

VODOHOSPODARSKY CASOPIS. (Slovenska akademia vied) Bratislava, Czechoslovakia.
Vol. 7, no. 3, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 12, Dec. 1959
Uncl.

BALCO, M., inz., C.Sc.

Commemorating the 60th birthday of academician O.Dub.
Vodohosp cas 10 no.3:229-231 '62.

BALCO, Mikulas, inz., C.Sc.

Hydrologic services and research in China. Vodohosp cas no.2:222-224
162.

1. Ustav hydrologie a hydrauliky, Slovenska akademia vied, Bratislava.

BALCO, Mikulas, inz., C.Sc.

Hydrologic Conference in Smolenice. Vodohosp cas 11 no.1:118-128
'63.

1. Ceskoslovenska akademie ved, Ustav hydrologie a hydrauliky,
Slovenska akademie vied, Bratislava.

BALCO, Nikolas

Hydrologic conference. Vestnik CSAV 72 no.1:83-86 '63.

BALCO, Mikulas, inz. C.Sc.

Relation of the surface and underground outlet during the
flow wave formation. Vodohosp cas 12 no.3, 225-237 '64.

International Hydrologic Decade. Ibid.: 1, 8, 350

1. Institute of Hydrology and Hydraulics, Slovak Academy of
Sciences, Bratislava.

BALCULESCU, E.

Construction with typical reinforced-concrete elements prefabricated in pieces in central workshops and assembled by prestressing in construction yards, a most useful method. p. 3

CONSTRUCTORUL, BUCURESTI, Vol 8, No. 327, Apr., 1956

SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, July, 1956

BALCUS, Irimie,

On the line of engagements. Constr Buc 16 no. 752:1
6 June '64.

ACC NR. AP7003467

SOURCE CODE: UR/0236/66/000/002/0167/0177

AUTHOR: Baltrunas, I.I.; Bal'chitis, I.Yu.; Balcytis, J.; Nyamura, A.A.; Nemura, A.; Baltrunas, J.

ORG: Institute of Power and Electrical Engineering, Academy of Sciences, Lithuanian SSSR (Institut energetiki i elektrotekniki. Akademiya nauk Litovskoy SSSR)

TITLE: Dynamics of an extremal control system which is invariant with respect to disturbances

SOURCE: AN LitSSR. Trudy. Seriya B. Fiziko-matematicheskiye, khimicheskiye, geologicheskiye i tekhnicheskiye nauki, no. 2, 1966, 167-177

TOPIC TAGS: extremal control system, self adaptive control invariant control system, CONTROL SYSTEM STABILITY

ABSTRACT: The dynamics and stability of a continuous invariant (with respect to disturbances) extremal control system with synchronous detection of disturbances and with harmonic searching for signals is analyzed in the case where the controlled object has a variable delay, under the assumption that variations in the parameters of the controlled object are sufficiently small (quasi-stationary regime). The control process is

Card 1/2

UDC: none

ACC NR: AP7003467

optimized with respect to disturbances by continuous automatic adjustment of the correcting device parameters (with respect to their deviations) in accordance with the optimality criterion

$$\varphi = \frac{1}{T} \int_0^T X_{out}^2(t) dt, \quad (1)$$

where X_{out} is the output coordinate and T is the time. The case is analyzed here when the extremal system is constructed so that the amplification factor $k(t)$ and the delay $\tau(t)$ of the correcting device have to be adjusted. Differential equations describing the dynamics of the adjusting process are derived for channels $k(t)$ and $\tau(t)$. The problem of the stability of the adjusting process is analyzed for both channels and the stability conditions are established on the basis of the derived equations. It is pointed out that the method used and the results obtained can be utilized in analyzing certain classes of self-adjusting systems. [LK]

SUB CODE: 12/ SUBM DATE: 28Dec65/ ORIG REF: 007/ ATD PRESS: 5114

Cord 2/2

BALCZEWSKI, Antoni, dr.

Development trends of the gas industry in Poland during the
years 1965-1980. Gas woda tech. sanit. 36 no.5:162-164, My '62.

BALCZEWSKI, Antoni

Central Laboratory of the Gas Industry as the basic institution for
research work on industrial gas problems. Koks 7 no 2: 49-51 Mr-Apr
'62.

1. Zjednoczenie Przemyslu Gazowniczego, Warszawa.

POLAND

BALCZEWSKI, Leszek; DOHNALIK, Tomasz

Institute of Physics, Jagiellonian University
(Instytut Fizyki Uniwersytetu Jagiellonskiego),
Crakow (for both)

Crakow, Postępy fizyki, No 5, Sept-Oct 1965, pp 559-78

"Methods used currently to measure the life-span of
excited atoms."