"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

begin

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

#337

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMON, I.I., kand.tekhn. auk; MATUKHNO, A.V.; GUBENKOV, M.G. [Hubenkov, M.I.]; GLOZMAN, L.P. [Glozman, L.P.]

Dynamics of the work of type ZG-83-10/320 high-pressure piston compressors. Khim.prom. [Ukr.] no.2:51 Ap-Je '65.

(MIRA 18:6)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

LOKSHIN, M.A. [Lokshyn, M.A.]; [illegible]; MAMLIN, L.I.; TATALIN, B.F.

New type of packings for the rotor [illegible] of high-pressure rubber compounds mixers. Kh. mash. [Ukr.] no.2 [illegible] Ap-Je '65.
(MIRA 18:6)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMON, P. M.: Master Biol Sci (diss) --- "Increasing the productivity of white-cocoon varieties of the mulberry silkworm by hybridization under the conditions of the Ukraine". Khar'kov, 1958. 16 pp (Min Agric USSR, Khar'kov Order of Labor Red Banner Agric Inst im V. V. Dokuchayev), 150 copies (KL, No 1, 1959, 117)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONA, F.T.

The role of specialists in plant protection. Zashch. rast. ot vred. i bol. 3 no.3:14-16 My-Je '58. (MIRA 11:6)

1. Agronom po zashchite rasteniy mashinnotraktornoy stantsii, Moldaviya.

(Plants, Protection of)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONA, F.T., agronom-entomolog

Working plan for 1960. Zashch.rast.ot vred.i bol. 5 no.3:7 Mr '60. (MIRA 16:1)

(Bendery District--Plants, Protection of)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MIRONOVA, L.L.; GOLDRIN, N.E.; MAMONENKO, L.L.

A new modification of the method of monkey kidney trypsinization. Acta virol. 7 no.2:189 Mr '63.

1. Institute of Poliomyelitis and Viral Encephalitides, U.S.S.R. Academy of Medical Sciences, Moscow.
(KIDNEY) (TRYPSIN) (TISSUE CULTURE)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MIRONOVA, L.L.; MAMONENKO, L.L.; GOL'DRIN, N.Ye.

Modified method for trypsinizing the kidneys in monkeys. Vop. virus. 10 no.1:110-111 Ja-F '65. (MIRA 18:5)

1. Institut poliomiyelita i virusnykh entsefalitov AMN SSSR, Moskva.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

L 33086-66 EWT(1)/T JK

ACC NR: AP6024120 (N) SOURCE CODE: UR/0402/66/000/001/0096/0099

AUTHOR: Gnuni, G. M.; Dzagurov, S. G.; Mamonenko, L. L.; Mironova, A.

ORG: Institute of Poliomyelitis and Viral Encephalitides, AMN SSSR, Moscow (Institut poliomielita i virusnykh entsefalitov AMN SSSR)

29
B

TITLE: Method of growing tissue cultures and viruses in revolving vessels

SOURCE: Voprosy virusologii, no. 1, 1966, 96-99

TOPIC TAGS: virology, tissue physiology, medical laboratory instrument, histology

ABSTRACT: The ordinary method of growing monolayer cultures of trypsinized cells leaves some 60 to 70% of the available area of the vessel unused, thus reducing the possibility of obtaining a large quantity of the cell mass participating in the formation of virus particles. The authors designed an apparatus in which flasks or bottles with a suspension of monkey kidney cells or human diploid cells in a culture medium revolve at the rate of 20 revolutions per hour. They found that the rotation of the vessels had no effect on adherence of the cells to the surface or on their growth. The mean index of proliferation (ratio of number of cells grown to the number inoculated) was about 1, the norm for the given types of tissue. There was a marked increase in the useful area occupied by the monolayer, decrease in consumption of the culture medium, and greater concentration of poliomyelitis virus (human diploid cells). Orig. art. has: 1 figure and 5 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: 07Jun65 / ORIG REF: 004 / OTH REF: 005

UDC: 576.858.093.1+578.085.23

Card 1/2 BK

0915 1696

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONENKO, Ye.A.; GORDIYCHUK, V.K.

Yield of sugar is the decisive factor in the profitableness of the operations of a sugar factory. Sakh.prom. 37 no.7:10-12 Jl '63. (MIRA 16:7)

1. Sakharnyy zavod "Bol'shevik".
(Sugar industry)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONETS, T. M.

Mamonets, T. M. -- "The Effect of Ions of Potassium and Calcium on the Reflex Activity of the Spinal Cord." [illegible] State Inst. [illegible] Hygiene. Chair of Human and Animal Physiology. Kiev, 1[illegible]. Dissertation for the Degree of Candidate in Medical Science,

So: Knizhnaya Letopis', No. 1[illegible], 1956

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONETS, T.M.

Changes in the development of pessimum inhibition due to the action of potassium and calcium chlorides. Nauk zap. Kyiv. un. 16 no.17: 161-166 '57. (MIRA 13:2)
(INHIBITION) (POTASSIUM CHLORIDE--PHYSIOLOGICAL EFFECT)
(CALCIUM CHLORIDE--PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONETS, T.M. [Mamnoets, T.M.]

Nature of reciprocal inhibition. Report No.1: Effect of calcium ions on reciprocal inhibition [with summary in English]. Fiziol. zhur. [Ukr.] 4 no.2:162-169 Mr-Ap '58. (MIRA 11:5)

1.Institut fiziologii im. O.O. Bogomol'tsya AN URSR, laboratoriya elektrofiziologii.

(INHIBITION) (CALCIUM--PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONETS, T.M. [Mamonets', T.M.]

Nature of reciprocal inhibition. Report No.2: Effect of potassium ions on reciprocal inhibition. Fiziol. zhur. [Ukr] 4 no.6:746-752 N-D '58. (MIRA 12:3)

1. Institut fiziologii im. A.A. Bogomol'tsa AN USSR, laboratoriya elektrofiziologii.
(INHIBITION) (POTASSIUM--PHYSIOLOGICAL EFFECT)
(SPINAL CORD)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONETS, T.M. [Mamonets', T.M.]

Depression of electrotonic potentials of the anterior roots by an inhibitory volley. Fiziol.zhur. [Ukr.] 6 no.2:173-180 Mr-Ap '60. (MIRA 13:7)

1. Institut fiziologii im. A.A. Bogomol'tsa AN USSR, laboratoriya elektrofiziologii.

(ELECTROPHYSIOLOGY)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONETS, T.M.

Electrotonic potentials of the posterior root during reciprocal inhibition of spinal reflexes. Fiziol. zhur. 47 no.3:365-373 Mr '61. (TRA 14:5)

1. From the Bogomolets Institute of Physiology, Academy of Sciences of the Ukrainian S.S.R., Kiev.
(SPINAL CORD)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONETS, T.M. [Mamonets', T.M.]

Potential of the degenerating posterior cerebrospinal root of a cat. Fiziol. zhur. [Ukr.] 8 no.1:71-78 Ja-F '62. (MIRA 15:2)

1. Laboratoriya elektrofiziologii Instituta fiziologii im. A.A. Bogomol'tsa AN USSR, Kiyev.
(ELECTROPHYSIOLOGY)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONETS, T.M.

Origin of the electrotonus potential in the posterior cerebrospinal root in the cat. Fiziol.zhur. 48 no.5:520-526 My '62. (MIRA 15:8)

1. From the Ukrainian S.S.R. Academy of Sciences A.A.Bogomoletz Institute of Physiology, Kiev.
(ELECTROPHYSIOLOGY) (NERVES, SPINAL)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONEN, I.M. [illegible]

[illegible] (MIRA [illegible])

1. Leningradskiy [illegible] Akademii nauk SSSR, [illegible].

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

ANTIPIN, G.V., mashinist elektrovoza, Geroy Sotsialisticheskogo Truda; [illegible], I.I., elektromonter; PRESNYAKOV, I.R., Geroy Sotsialisticheskogo Truda; DENISKIN, [illegible], mashinist-instruktor; [illegible], N.I., tokar'-ratsionalizator; [illegible], I.N.; CHEN HUA-DIN [Ch'eng Hua-ting]; U FYN [Wu Fêng]; LYU I [Liu I]; YAN CHAO [Yang Ch'ao]; TIKHMENEV, B.N., doktor tekhnicheskikh nauk; [illegible], V.V., inzh. (g.Perizh); [illegible], A., inzh.; PIVOVAROV, G.I.

A feat which will live forever. Elek. i tepl. tiaga 5 no.7:1-3 Jy '61. (MIRA 14:7)

1. Depo Krasnoyarsk (for Antipin). 2. Glavnaya distantsiya kontaktnoy seti (for Belikov). 3. Master avtomatnogo tsekha depo Liski (for Presnyakov). 4. Lokomotivnoye depo Frunze, rukovoditel' kolonny teplovozov imeni XXII s"yezda partii (for Deniskin). 5. Instrumental'nyy tsekh kommunisticheskogo truda lokomotivnogo depo Kuybyshev (for Manonin). 6. Literaturnyy sotrudnik gazety "Kuybyshevskiy zheleznodorozhnik" (for Kazachek). 7. Moskovskiy institut inzhenerov transporta (for Chen Hua-din, U Fyn, Lyu I, Yan Chao). 8. Rukovoditel' laboratorii peremennogo toka Vsesoyuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta Ministerstva putey soobshcheniya (for Tikhmenev). 8. Nachal'nik depo Leningrad-Baltiyskiy (for Pivovarov).

(Astronautics)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

9(2) PHASE I BOOK EXPLOITATION SOV/1445

Mamonkin, Igor' Grigor'yevich

Impul'snyye usiliteli (Pulse Amplifiers) Moscow, Gosenergoizdat, 1958. 205 p. 36,000 copies printed.

Ed.: Nikolayev, A.M.; Tech. Ed.: Borunov, N.I.

PURPOSE: This book is intended for engineers, technicians and students of radio engineering departments of vuzes.

COVERAGE: The book covers the basic problems of the theory and design of pulse amplifiers for various applications. The author describes exact and approximate methods of evaluating distortions in multistage circuits. He explains numerous methods of increasing the effective value of amplification area, including the application of feedback, distributed amplification, compensating elements, delay compensation, etc. He explains the system of designing all basic and auxiliary components of amplifier circuits. This system is based on the permissible distortion level in these circuits. The author also evaluates the stability and selects optimum parameters of multistage circuits. The book is based on lectures delivered by

Card 1/5

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

the author in the Radio Engineering Department of MEI for the course on "Low-frequency Amplifiers." He thanks Docent V.L. Lebedev and A.M. Nikolayev for their help. There are 46 Soviet references (including 10 translations).

TABLE OF CONTENTS:

Foreword 3

Ch. 1. General Information on Pulse Amplifiers 5
1. Classification of amplifiers 5
2. Electrical parameters 6
3. Operation of a tube in an amplifier circuit 15
4. Nature and causes of pulse distortions 19

Ch. 2. Methods of Analyzing Pulse Amplifier Circuits 22
1. General information on circuit analysis 22
2. The Laplace method 24
3. Basic theorems of the Laplace transformation 28
4. Overall evaluations of transient processes (moment method) 39

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

Ch. 3. Basic Pulse Amplifier Circuits 45
1. Resistance-coupled amplifier 45
2. Shunt-compensated amplifier 51
3. Series-compensated amplifier 57
4. Composite compensation 64
5. Amplifier with delay compensation 67
6. Transformer-coupled amplifier 70
7. Distributed amplifier 75

Ch. 4. Feedback Pulse Amplifiers 82
1. Basic properties of feedback amplifiers 82
2. Cathode follower 91
3. "Plate follower" [amplifier with parallel voltage feedback] 107
4. Current feedback amplifier 112
5. Two-stage voltage feedback amplifier 114

Ch. 5. Auxiliary Circuits of Amplifiers 118
1. Decoupling in the plate circuit 119
2. Decoupling in the grid circuit 121
3. Self-bias circuit 122

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

4. Screen grid power-supply circuits 125
5. Resultant action of cathode and screen-grid circuits 131
6. Compensated voltage dividers 133
7. Stepless regulation of amplitude 137
8. Electronic regulators of amplification 138

Ch. 6. Multistage Amplifiers 144
1. Rise-time summation (monotonic transients) 144
2. Rise-time summation (nonmonotonic transients) 150
3. Overshoot summation 153
4. Sag summation 159
5. Amplifier stability 161

Ch. 7. Fourier Transformation and Approximate Methods of Evaluating Pulse Distortions 168
1. Purpose of approximate methods 168
2. The Fourier transformation 169
3. Approximate evaluation of a process 176
4. Approximate evaluation of a process from the roots of its representative equation 187

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

Pulse Amplifiers SOV/1445

5. Approximation and periodization of time-functional characteristics 191
6. Approximation and periodization of frequency-response characteristics 196
7. Integral evaluation of a process 200

Appendix I. Table of Operative Symbols and Corresponding Originals 204

Appendix II. Tables of h-functions for triangular real frequency-response characteristics 206

Bibliography 207

AVAILABLE: Library of Congress

JP/sfm
5-8-59

Card 5/5

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

0.0000

78152
SOV/108-15-3-15/17

AUTHOR: Mamonkin, I. G

TITLE: Review of a Book by Ya. Z. Tsypkin. "The Theory of Impulse Systems." Physico-Mathematical State Publishing House, 1958 (Fizmatgiz, 1958)

PERIODICAL: Radiotekhnika, 1960, Vol 15, Nr 3, pp 78-79 (USSR)

ABSTRACT: This is a review of a book written by Ya. Z. Tsypkin, one of the outstanding Soviet specialists in the field of impulse systems. It is highly recommended by the reviewer

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MALONKIN, Igor' Grigor'yevich, kand. tekhn. nauk, dots.; PENIN, T.I., kand. tekhn.nauk, dots., red.

[Low-frequency transistor amplifiers] Poluprovodnikovye usiliteli nizkoi chastoty. Moskva, Mosk. energeticheskii in-t, 1961. 105 p. (MIRA 17:8)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

FAYZULAYEV, Boris Nurulayevich; MAMONKIN, I.G., retsenzent; SHUTSKOY, K.A., otv. red.; KONDRAT'YEVA, V.I., red.

[Transistorized stages in the transient mode of operation] Poluprovodnikovye kaskady v perekhodnom rezhime. Moskva, Sviaz', 1965. 182 p. (MIRA 18:5)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

BRYUSHKOV, V.S.; BYCHKOV, V.P.; MAMONOV, A.F.

Quartz spring coiling machine. Zav. lab. 30 no.11:1417 '64 (MIRA 18:1)

1. Institut obshchey i neorganicheskiy khimii im. N.S.Kurnakova AN SSSR.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

L 40369-66 EWT(1)

ACC NR: AP6014242 SOURCE CODE: UR/0109/66/011/005/0879/0885

AUTHOR: Lobov, G. D.; Mamonov, A. I.

ORG: none

TITLE: Effect of the 1-f impedance of a gas-discharge detector on the shape of a SHF detected pulse

SOURCE: Radiotekhnika i elektronika, v. 11, no. 5, 1966, 879-885

TOPIC TAGS: microwave detector, gas discharge ~~detector~~ counter, SHF

ABSTRACT: Distortion of the voltage pulse across the load of a SHF-gas-discharge detector is investigated; this distortion is related to the discharge-current variation. The gas-discharge impedance is replaced by a series-reactance-resistance equivalent circuit. The signal shape is determined from a differential equation describing the effect of a current pulse flowing in the above

Card 1/2 UDC: 621.385.11:621.376

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

L 40369-66
ACC NR: AP6014242

equivalent circuit. Oscillograms of an experimental verification carried out with He- and Ne-filled detectors operating at $\lambda = 3$ cm are presented. It is recommended that the load resistance be selected in accordance with the (rather low) resistive component of the gas-discharge impedance. Orig. art. has: 7 figures and 28 formulas.

SUB CODE: 09 / SUBM DATE: 23Dec64 / ORIG REF: 001 / OTH REF: 003

Card 2/2 hs

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

SHCHERBAKOV, G. A., and F. A. MAMONOV.

Bokovoe ravnovesie samoleta pri nestimme-trichnoi tiage vintov. Moskva, 1937. 28 p., illus., tables, diagrs. (TSAGI. Trudy, no. 318)

Bibliography: p. 28.

Summary in English.

Title tr.: Lateral stability of airplanes at asymmetrical propeller thrust.

QA911.M65 no. 318

SO: Aeronautical Sciences and Avi tion in the Soviet Union, Library of Congress, 1955

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, F.M.

Self-dumping crane bucket. Na stroi. Mosk. 1 no.3:23 Mr '58.
(Cranes, derricks, etc.) (MIRA 11:8)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

ILYENOVA, L.M.; MAMONOVA, G.P., [illegible] M.I.

Separation of selenium, tellurium, and sulfur in [illegible].
Zhur. neorg. khim. 9 no. [illegible] [illegible] 1964.

1. Institut khimicheskikh nauk AN Kazakhskoy SSR.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, G.I.

Method for preserving the testicles following complete traumatic loss of the scrotum. Khirurgiia 35 no. 5:127 My '59.
(MIRA 13:10)

1. Iz khirurgicheskogo otdeleniya Konstantinovskoy bol'nitsy Podol'skogo rayona Moskvoskoy oblasti.
(SCROTUM—WOUNDS AND INJURIES)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, K. S.

Boilers

New construction of a heating boiler. Rab. energ. 2 No. 1, 1952

Monthly List of Russian Accessions, Library of Congress, May 1952. Unclassified.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

ZAIMBETOVA, F.A.; MAMONOV, [illegible]

Influence of individual organs on the development of wheat grain. Trudy Inst. bot. AN Kazakh.SSR 16:51-63 (MIRA 17:8)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, L.K.; POLIMBETOVA, F.A.

Some characteristics of the flow of plastic substances into the developing wheat ear. Vest. AN Kazakh. SSR 21 no.1:12-20 Ja '65. (MIRA 18:7)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

TREUSHNIKOV, A., inzh. ekspluatatsii vodnogo transporta;
SAZANOVA, M., inzh. ekspluatatsii vodnogo transporta;
MAMONOV, N., inzh. ekspluatatsii vodnogo transporta;
SERGEYEV, R., inzh. ekspluatatsii vodnogo transporta

Correct formulation of the problem. Rech. transp. 22 no.4:42 Ap '63. (MIRA 16:4)

(Inland water transportation—Employees)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, N. N.

Mamonov, N. N.

"The struggle against lettuce and European bindweed under irrigated conditions on chestnut soils of the trans-Volga region." Min Higher Education USSR. Saratov Agricultural Inst. Saratov, 1956. (Dissertation for the degree of Candidate in Agricultural Sciences)

Knizhnaya letopis
No. 15, 1956. Moscow

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

1. MANONOV, P.

2. USSR (600)

4. Telecommunication--Accounting

7. Correspondence study for bookkeepers, Sov. sviaz., No. 10, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April, 1952, Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, Petr Nikanorovich; MAGARSHAK, B.G., retsenzent; POYARKOVA, T.M., retsenzent; KRASIL'SHCHIKOV, L.B., nauchnyy red.; KVOCHKINA, G.P., red.; SHISHKOVA, L.M., tekhn. red.

[Book of problems in electric measurements]Sbornik zadach po elektricheskim izmereniiam. Leningrad, Sudpromgiz, 1962. 105 p. (MIRA 16:1)

(Electric measurements)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, V.

Some problems in financing and supplying credit for the reconstruction of Moscow enterprises. Fin. SSSR 23 no.3:47-50 Mr '62. (MIRA 15:3)

(Moscow—Machinery industry—Finance)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, V.

Use funds designated for production improvement more efficiently.
Den.i kred. 21 no.1:34-39 Ja '63. (MIRA 16:2)
(Factories--Equipment and supplies)
(Banks and banking)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, V.F.

Motorbuses manufactured by Fiat and Commer. Avt.prom. 28 no.5: 43-46 My '62. (MIRA 15:5)

(Motorbuses)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, V.F.

The DAF motortrucks, semitrailers and trailers. Avt.prom. 28 no.11:46-48 N '62. (MIRA 16:1)
(Motortrucks) (Truck trailers)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, V.P.

The MAN motor vehicles. Avt. prom. 30 no.1:44-47 Ja '64. (MIRA 17:1)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

L 57193-65 EWT(d)/EWT(m)/EWP(w)/FA/EWA(d)/EWP(v)/T-2/EWP(k)/EWP(h)/EWP(t)
Pf-4 EM

ACCESSION NR: AP5017857 UR/0286/65/000/011/0090/0090
620.178

AUTHOR: Biksiov, V. K.; Gusev, A. G.; Altukhov, V. D.; Kutepov, M. A.; Mamonov, V. I.; Mukhin, N. V.

TITLE: Aerodynamic-load simulator for aircraft components. Class 42, No. 171613

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 90

TOPIC TAGS: aerodynamic load simulator, test equipment, aerodynamic load, aircraft aerodynamic load test

ABSTRACT: An Author Certificate has been issued for an aerodynamic-load simulator for testing aircraft components, particularly rudders, ailerons, and landing-gear flaps. The unit consists of a frame with drums and suspension units and a loading system having a cylinder, a beam, cables, and straps. To load a test piece inclined at a large angle, and to simplify the control of the magnitude of the applied simulating force, the shaft holding the frame-suspension units coincides with the test piece's rotation axis. In addition, the frame is [illegible]

Card 1/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

L 57593-65

ACCESSION NR: AP5017857

connected to the test piece by a system of loading straps and to the beam and loading cylinder by cables running through the drums. Orig. art. has: 1 figure. [LB]

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po aviatsionnoy tekhnike SSSR (Organization of the State Committee on Aviation Technology SSSR)

SUBMITTED: 16Jul64 ENCL: 01 SUB CODE: AC, ME

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4041

Card 2/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, V.V.

Industrial work practice of rural students in local enterprises.
Politekh. obuch. no.9:43-47 S '57. (MIRA 10:9)

1. Budennovskaya srednyaya shkola Belgorodskoy oblasti.
(Education, Cooperative)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, V.V., gornyy inzhener, laureat Stalinskoy premii

Organization of a cyclic system of longwall working with cutter-loaders in Gukovugol' Trust mines. Ugol' 34 no.12:15-19 D '59. (MIRA 13:4)

1. Kombinat Rostovugol'.
(Donets Basin--Coal mines and mining)
(Mine management)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MINDELI, E.O., kand.tekhn.nauk; KUSOV, N.F., kand.tekhn.nauk; ODNOPOZOV, Z.A., gornyy inzhener; RABICHEV, A.R., gornyy inzhener; MAMONOV, V.V., gornyy inzhener; GROZIN, V.M., gornyy inzhener; OSNOVSKIY, F.V., gornyy inzhener; VORONIN, V.S., inzhener-shakhtostroitel'; MUKHIN, L.V., gornyy inzhener

Discussion on N.V. Stadnichenko, V.T. Nazarov's article "Advantageous diameter size for boreholes." Ugol' 35 no. 4:31-35 Ap '60. (MIRA 14:4)

1. Kombinat Rostovugol' (for Rabichev, Mamonov & Grozin). 2. Rostovskiy sovnarkhoz (for Osnovskiy & Voronin).
(Blasting) (Boring) (Stadnichenko, N.V.) (Nazarov, V.T.)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, V.V.

Ways of increasing labor productivity in the mines of Rostovugol' Combine. Ugol' 36 no.6:44-47 Je '61. (MIRA 14:7)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy ugol'nyy institut.

(Donets Basin--Coal mines and mining--Labor productivity)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, V.V., gornyy inzh.

Load on a longwall during coal mining with the use of USB-2m plows. Ugol' 40 no.11:24-27 '65. (MIRA 18:1)

1. Shakhtinskiy nauchno-issledovatel'skiy i proyektno-konstruktorskiy ugol'nyy institut.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, Ye.I., [translator]; SADOVSKIY, L.Ye.[translator]; KHETAGUROVA, Ya.A.[translator]; SHESTAKOV, V.I., redaktor.

[Synthesis of electronic computing and control circuits] Sintez elektronnykh vychislitel'nykh i upravliaiushchikh skhem. Perevod s angliiskogo E.I.Mamonova, L.E.Sadovskogo i IA.A.Khetagurova. Pod red. V.I.Shestakova. Moskva, Izd-vo inostrannoi lit-ry, 1954. 357 p. (MLRA 7:8)

(Electronic calculating machines)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, YE. I., Cand. in Tech. Sci.

"Optimum Speed of Operation and Other Technical Indices of Operative Devices for Information Storage in Electronic Automatic Digital Computing Machines" a paper presented at the Conference on Methods of Development of Soviet Mathematical Machine-Building and Instrument-Building, 12-17 March 1956.

Translation No. 596, 8 Oct 56

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, Ye.I.

Electronic calculating machines; at the All-Union Scientific Technical Conference. Priroda 45 no.7:47-49 Jl '56. (MLRA 9:9)
(Electronic calculating machines)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, Ye.I.; RUSEVICH, I.M.

Automatic control and calculating machines. Priborostroenie no.6:31-33 Je '57. (MIRA 10:7)
(Automatic control) (Calculating machines)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, Ye. I.,

"Basic Terminology and Definitions in Automatic Digital Computer Engineering," Computer Engineering, Moscow, Izd-vo AN SSSR, 1956. (Akademiya nauk SSSR. Institut tochnoy mekhaniki i vychislitel'noy tekhniki Vychislitel'naya tekhnika).

Abst.: In this article attention is given to the lack of a standard computer terminology. To improve the situation, various computer terms and definitions are offered for consideration. The author thanks Ye. A. Volkov, G. K. Rakov, and V. I. Shestakov for their valuable comments. There are 2 references of which 1 is Soviet and 1 English.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

SOV-26-58-8-32/51

AUTHOR: Mamonov, Ye.I., Candidate of Technical Sciences (Moscow)

TITLE: The Development of Scientific Work in Rochelle-Salt Electricity (Razvitiye nauchnykh rabot po segnetoelektrichestvu)

PERIODICAL: Priroda, 1958, Nr 8, pp 113-115 (USSR)

ABSTRACT: The second All-Union Rochelle-Salt Electricity Meeting discussed the results of theoretical and experimental investigations in this field. The meeting was attended by the members of the scientific research and training institutes from Moscow, Leningrad, Rostov on Don, Smolensk and other cities. Over 60 papers were delivered. They were concerned with problems of the theory of Rochelle-salt electricity, the investigation of the properties of poly- and monocrystallic ferroelectrics, the results of the search for new ferroelectric materials and their application in the construction of devices and to measuring methods. Application of quantum mechanics permits the computation of the basic parameters of titanate of barium. Based on the method of particle functions certain problems of the statistical theory of phase migrations in molecular crystals were investigated. This gave the pos-

Card 1/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

sibility to cast light on the problem of the effect of the temperature on the regulation of orientation in crystals. For the search for new ferroelectric materials the results of an analysis of the ferroelectric properties of various compounds of the ABO_3 type in connection with the character of the chemical B-O combination is of interest. Several papers were concerned with some aspects of blast furnace structure, the explanation of the ferroelectric properties of crystals and the changes in symmetry at the transitions from one condition to another. Special attention was paid to the study of the properties of ferroelectric materials and the methods of obtaining some ferroelectrics. The results of these works can be of essential importance for the progress and confirmation of the theory and for special applications of the ferroelectrics in engineering. The properties of ferroelectric keramic and monocrystals, the methods of the cultivation of the monocrystals of ferroelectrics, especially of the titanate group, and the results of roentgenographic and optical investigations of heavy solutions, pyroniobates and other substances were

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

SOV-26-58-8-32/51

The Development of Scientific Works in Rochelle-Salt Electricity

discussed. Several papers dealt with the properties of titanates and their combinations with other substances. Thorough investigations of heavy solutions of diverse components and polycrystallic titanate of barium with insignificant additions and ferrcelectrics with a high Curie temperature were mentioned. An original tubular furnace with a temperature of up to 1,800°C was set up to obtain monocrystals in the zone with a high temperature gradient, and samples of monocrystals cultivated in this furnace were discussed. With respect to new materials, sulphate of triglycine was obtained. A furnace is not required for the cultivation of these crystals (a low coercive tension of the electric field, several hundred volts per cm; Figure 1). The solution of the initial reagents is utilized. Several papers were concerned with the study of the piezoeffect of ferroelectrics (titanate of barium and Rochelle salt) at compression from all sides and also by modulation interference and other methods. Measuring methods and technique in the field of Rochelle salt electricity were covered. The use of fast-acting computing machines of titanate of barium, guanidine sulfate, triglicine sulfate

Card 3/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

SOV-26-58-8-32/51

The Development of Scientific Works in Rochelle-Salt Electricity

and others was also ment oned. It must be required that the ferroelectric materials have a rectangular shape of the hysteresis loop (Figure 2), fast acting change-over from one polarization condition to the other, a wide temperature working range and smaller coercive field tension.
There are 2 photos.

1. Potassium sodium tartrate--Electrical properties 2. Single crystals--Growth 3. Crystals--Properties 4. Quantum mechanics --Applications 5. Titanates--Properties

Card 4/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

86863

S/141/60/003/005/018/026
E140/E335

9,7100

AUTHOR: [redacted]

TITLE: Adderless Combinational Circuits for the Parallel Complementation of Binary Numbers

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1960, Vol. 3, No. 5, pp. 887 - 891

TEXT: The problem solved here is that of forming the two's complement of a binary number without requiring the operation of addition. It will be recalled that the two's complement corresponds to the bitwise logical complement with C_0, i.e. an initial carry in the lowest order of the complement thus formed. Examples are:

101000	101001
011000	010111

Card 1/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

86863

S/141/60/003/005/018/026
E140/E335

Adderless Combinational Circuits for the Parallel Complementation of Binary Numbers

The two binary numbers in the upper row of the table yield the two's complements in the lower row of the table. Two circuits are presented. The first (Fig. 1) yields the two's complement in transfer from a register; the other (Fig. 2) constructs the two's complement in the register on input of a control signal. The basis of the method is that all bits following the lowest-order I in the register are to be complemented, while the lowest-order I and all lower-order bits (by definition 0's) are not complemented. Complementation is enabled by a signal propagating towards higher orders from each I stored in the register. An OR-gate in each position permits these signals to complement all bits stored in higher orders than the position of the lowest-order 1 .

Card 2/4

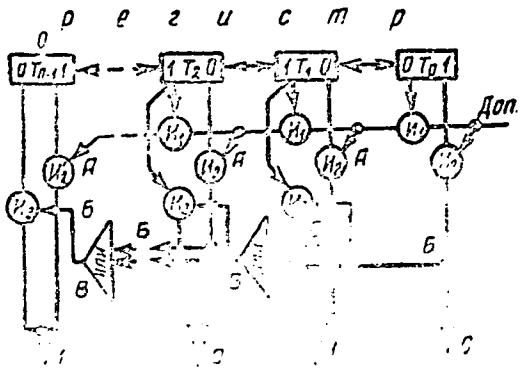
APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

86863

S/141/60/003/005/013/026
E140/E335

Adderless Combinational Circuits for the Parallel Complementation of Binary Numbers



Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

86863

S/141/60/003/005/018/026
E111/E333

[illegible] Combinational Circuit [illegible] for the Parallel [illegible]

There are 2 figures.

ASSOCIATION: Institut tochnoy mekhaniki i vychislitel'noy tekhniki AN SSSR (Institute of Precision Mechanics and Computation Techniques of the AS USSR)

SUBMITTED: December 29, 1959

Card 4/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85895

9.2180 (3203,1162)
24.7800 (1144,1162)

S/048/60/024/011/031/036
B006/B060

AUTHORS: Mamonov, Ye. I. and Zheludev, I. S.

TITLE: Some Special Properties of Seignettoelectric Materials and Ferromagnetic Toroids With Rectangular Hysteresis Loop

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 11, pp. 1421 - 1425

TEXT: This is the reproduction of a lecture delivered at the Third Conference on Ferroelectricity which took place in Moscow from January 25 to 30, 1960. The paper under consideration gives results concerning the polarity reversal characteristics. Details relative to hysteresis are first dealt with. Fig. 1 shows a loop recorded oscillographically and exhibiting the characteristic time marks, type, and position of which allow the rates of polarity or magnetic reversal to be inferred. The polarization (magnetization) of seignettoelectric (ferromagnetic) elements is much quicker in the vertical part of the

Card 1/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85895

Some Special Properties of Seignetto-electric Materials and Ferromagnetic Toroids With Rectangular Hysteresis Loop

S/048/60/024/0[illegible]/031/036
B006/B060

loop than in the horizontal one. The commercial use of such elements requires the quickest switching possible; here the switching regulation principle is a pulsed one. Fig. 2 shows the signals of the switching of such elements. The study also covered the switching duration τ as a function of the field strength applied. Fig. 3 shows τ and $1/\tau$ as functions of H and E. $1/\tau = \mu(E-E_0)$ and for seignettoelectric materials $1/\tau = (1/S)(H - H_0)$, where μ is the domain mobility coefficient and S is the switching coefficient; both of the coefficients are dependent upon the physical and chemical parameters of the material. Measurement data of various specimens are compiled in a table. The final discussion comprises some details concerning losses (line losses, losses due to piezoeffect and electrostriction or eddy currents and magnetostriction, respectively; losses due to relaxation processes). There are 3 figures, 1 table, and 4 references: 2 Soviet and 2 US.

ASSOCIATION: Institut kristallografii Akademii nauk SSSR (Institute of Crystallography of the Academy of Sciences USSR)

Card 2/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85895

S/048/60/024/011/031/036
B006/B060

Материал 1	P_s, мкн см$^{-2}$ 7	B_s, kGs	$E_к$, kV см$^{-1}$	$H_к$, Oe	$W_{уд} \cdot 10^{-4}$, тн см$^{-3}$ на одно переключение 8	Объем, 10^{-4} см^3 9	Линейные размеры, мм 10	Внешний диаметр, см [5,6] 11	Внутренний диаметр, см [5,6] 12	Высота, см [5,6] 13	$W_{абс} \cdot 10^{-4}$, $W_{сек}$ на 1 переключение 14
2 Титанат бария	26		0,75		39	1,2	0,2×0,2×0,3				0,47
3 Триглицинсульфат	2,3		0,22		1,0	1,2	0,2×0,2×0,3				0,01
4 Гуанидиналюминийсульфат гексагидрат	0,35		1,0÷3,0		0,7÷2,1	1,2	0,2×0,2×0,3				0,008÷0,03
5 Ферритовые тороиды К-28		2.6		1,5	0,06	650		2,1	3,0	0,9	0,39
5 Ферритовые тороиды ВТ-2		2,6		0,8	0,03	2200		3,1	2,0	1,3	0,66
5 Ферритовые тороиды ВТ-5		2,7		0,15	0,006	1570		3,0	2,0	1,0	0,1
6 Пермиппар (ленточный тороид)		10		0,3	0,05						

Card 3/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85895

S/048/60/024/011/031/036
B006/B060

Legend to the Table: 1, material; 2, $BaTiO_3$; 3, triglycine sulfate; 4, guanidine aluminum sulfate hexahydrate; 5, ferrite toroids; 6, Perminvar (band toroid); 7, P_0 μc/cm^2; 8, W_{spec} 10^{-3} Joule/cm^3 per switching (W - losses); 9, volume $.10^{-5}$ cm^3; 10, size; 11, outer diameter, cm; 12, inner diameter, cm; 13, height, cm; 14, $W_{abs}.10^{-6}$ W_{sec} per switching; 15, Curie point, °C; 16, $\mu 10^{-3}$ at 20°C per v.sec; 17, $S.10^{-6}$ at 20°C, oe.sec; 18, deuterized tryglicine sulfate.

15 T_K, °C	16 $\mu_H \cdot 10^{-3}$ при 20°, V^{-1} сек$^{-1}$ (рассчит. по методу [1])	17 $S_H \cdot 10^{-6}$ при 20°, Oe сек
120	~0,6	
~47 (для ДТГС 60)	~0,3	
~9 (300)		
290		0,66
275		0,71
240		0,65
500		

Card 4/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85896

S/048/60/024/011/032/036
B006/B060

9,7140

AUTHOR: Mamonov, Ye. I.

TITLE: Principles and Characteristics of the Use of Seignetto-electric Matrices for the Storage of Information in Computers and Instruments of a Discrete Effect

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 11, pp. 1426 - 1427

TEXT: This is the reproduction of a lecture delivered at the Third Conference on Ferroelectricity which took place in Moscow from January 25 to 30, 1960. The author reports briefly on the use of seignettoelectric matrices made of platelets (cf. Fig. 1). The electrodes are applied onto plates by vacuum evaporation of metal with stencils. Matrices are used for the storage of information of 81 - 1024 double discharges on seignettoelectric plates of the size 10 x 10, 20 x 20 or 40 x 40 mm, the plates being made of triglycine sulfate monocrystals. The storage is based on the dependence of polarization

Card 1/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85896

Principles and Characteristics of the Use of Seignettoelectric Matrices for the Storage of Information in Computers and Instruments of a Discrete Effect

S/048/60/024/011/032/036
B006/B060

hysteresis upon the field strength E applied. One of the states of residual polarization has the code 0, the other the code 1. The storage of information is controlled by pulses. Reading and decoding of stored information is briefly discussed and described with the aid of a time-chart. Two- and three-dimensional storage systems are then dealt with and some details are discussed. There are 2 figures and 5 references: 4 Soviet and 1 Australian.

ASSOCIATION: Institut kristallografii Akademii nauk SSSR (Institute of Crystallography of the Academy of Sciences USSR)

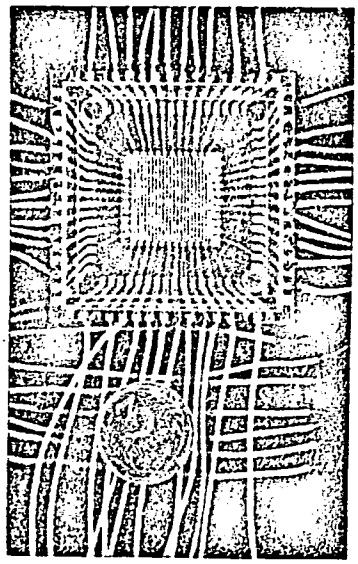
Card 2/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85896

S/048/60/024/011/032/036
B006/B060



Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85897
S/048/60/024/011/033/036
B006/B060

9,7140

AUTHORS: Mamonov, Ye. I. and Koval'skiy, Yu. M.

TITLE: Semiconductor Units for the Automatic Control of Recording, Reading, and Reproduction of Information by Means of Seignettoelectric Matrices

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 11, pp. 1428 - 1431

TEXT: This is the reproduction of a lecture delivered at the Third Conference on Ferroelectricity which took place in Moscow from January 25 to 30, 1960. The authors describe circuits for the automatic control of events in electronic computers working with seignetto-electric matrices. The circuits discussed are shown in Figs. 1 and 2. Fig. 3 shows oscillograms of the effect of some control units (pole reversal of a static trigger; signals from one of the latest and one of the oldest discharges of the address register; pulse at the output of the reading and recording amplifiers), and Fig. 4 shows an outside

Card 1/5

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85897

Semiconductor Units for the Automatic Control of Recording, Reading, and Reproduction of Information by Means of Seignettoelectric Matrices

S/048/60/024/011/033/036
B006/B060

view of the whole apparatus. The authors thank I. S. Zheludev for assistance and advice, and B. N. Perekatov for cooperation. There are 4 figures and 1 Soviet reference.

ASSOCIATION: Institut kristallografii Akademii nauk SSSR (Institute of Crystallography of the Academy of Sciences USSR)

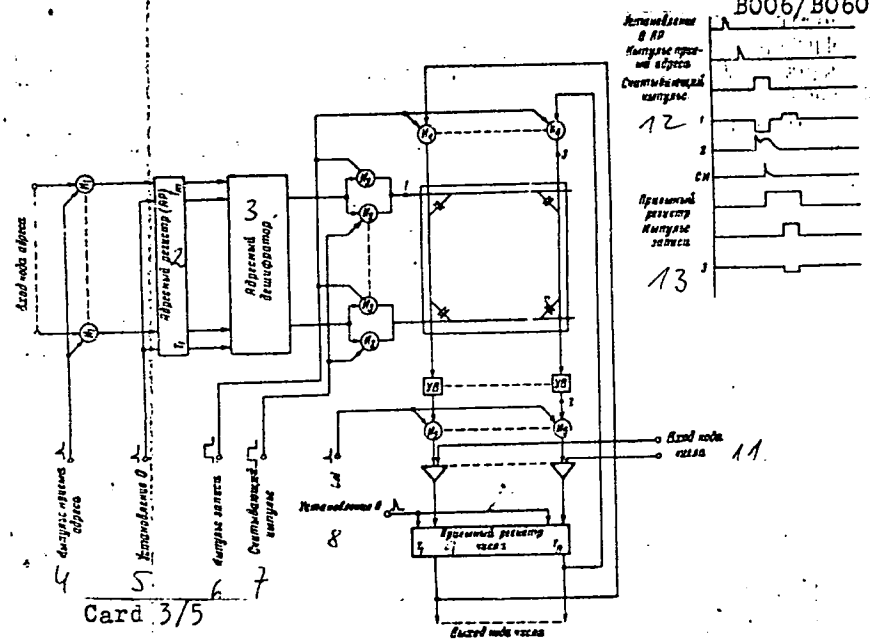
Card 2/5

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85897

S/048/60/024/011/033/036
B006/B060



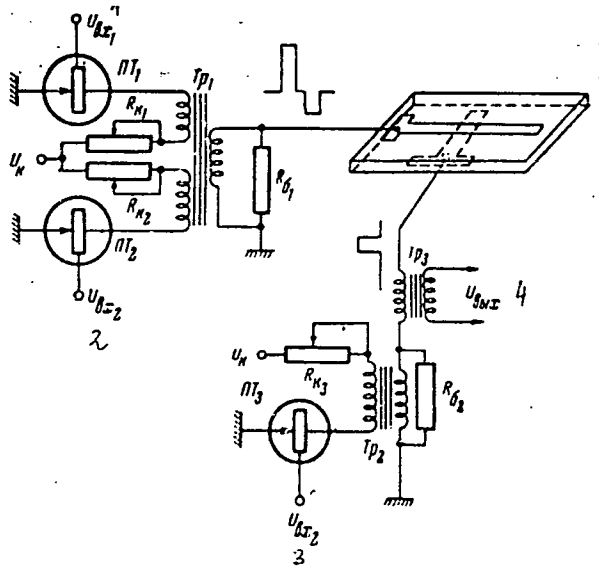
Card 3/5

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85897

S/048/60/024/011/033/036
B006/B060



Card 4/5

Рис. 2. Электрические схемы записи, считывания и восприятия информации с трансформаторными связями

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85897

S/048/60/024/011/033/036
B006/B060

Legend to Fig. 1: Block diagram of a two-dimensional apparatus for information storage with seignettoelectric matrix. (1) input of address code; (2) address register; (3) address decoder; (4) pulse of address reception; (5) 0 adjustment; (6) registering pulse; (7) reading pulse; (8) 0 adjustment; (9) digit receiving register; (10) output of digit code; (11) input of digit code; (12) pulse forms of (5), (4), and (7); (13) dto. in the receiving register and the registering pulse.

Legend to Fig. 2: Electric circuit of recording, reading, and perception of information with transformer couplings. ΠT_1 and ΠT_2 are transistors, Tp_1, Tp_2, and Tp_3 denote transformers, R_{6_1}, R_{6_2} - resistors, R_{K_1}, R_{K_2}, R_{K_3} - resistors, 1,2,3 - input voltages, 4 - output voltages.

Card 5/5

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85898

S/048/60/024/011/034/036
B006/B060

9,7140

AUTHORS: Mamonov, Ye. I., and Rzhanov, V. G.

TITLE: An Instrument for the Pulsed Experimental Investigation of Seignettoelectric Matrices With Semiautomatic Address Selection

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 11, pp. 1432 - 1435

TEXT: This is the reproduction of a lecture delivered at the Third Conference on Ferroelectricity which took place in Moscow from January 25 to 30, 1960. The practical use of seignettoelectric materials as quick-acting storage cells requires the prior examination of the behavior of such cells under the action of different pulses. The authors describe an instrument developed for the experimental study of seignettoelectric matrices and elements in pulsed switching operation. Fig. 1 shows the block diagram and the time chart of the voltage pulses. Fig. 2 illustrates the circuit of the output amplifier, and Fig. 3

Card 1/5

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85898

An Instrument for the Pulsed Experimental Investigation of Seignettoelectric Matrices With Semiautomatic Address Selection

S/048/60/024/011/034/036
B006/B060

shows one of the forms of pulse sequences from the output amplifier. Fig. 4 is a picture of the external view of the whole instrument, and Fig. 5 shows oscillograms of signals at the matrix output. The following characteristics of seignettoelectric matrices and elements can be recorded with the aid of this instrument: a) rate of pole reversal processes and their dependence on pulsed electric fields, pulse sequence frequencies, thickness, and other parameters of matrices under different conditions; b) thresholds of pulsed fields in pole reversal under different conditions; c) conservation of information under the action of different depolarizing pulses; d) signal-to-noise ratio and degree of unipolarity of hysteresis; e) degree of topographic homogeneity of different electrical properties of seignettoelectric matrices; f) reciprocal effect of switched matrix elements, and a number of other matrices. The authors thank I. S. Zheludev for valuable advice. There are 5 figures.

ASSOCIATION: Institut kristallografii Akademii nauk SSSR (Institute of Crystallography of the Academy of Sciences USSR)

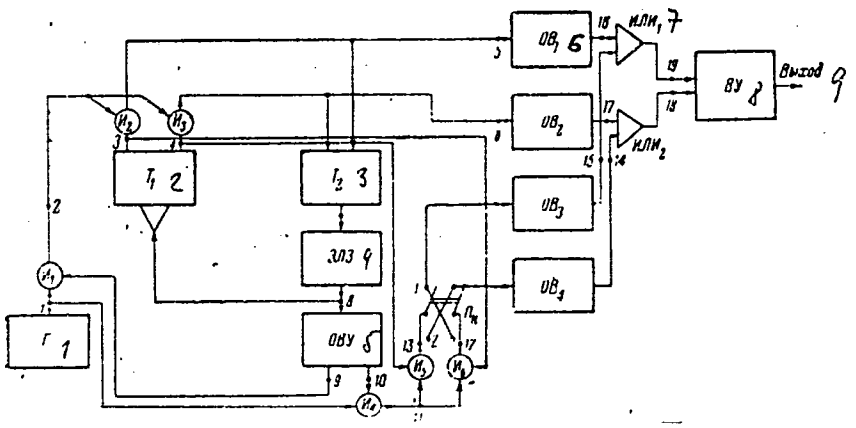
Card 2/5

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85898

S/048/60/024/011/034/036
B006/B060



Card 3/5

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85898
S/048/60/024/011/034/036
B006/B060

Card 4/5

Рис. 1. Блок-схема прибора и временные диаграммы напряжений

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

85898

S/048/60/024/011/034/036
B006/B060

Legend to Fig. 1: (1) Synchronizing generator, (2) control trigger, (3) delay trigger, (4) electronic delay line, (5) control univibrator (pulse sequence), (6) four forming univibrators, (7) type of a circuit, (8) output amplifier, (9) output, (10) output.

Legend to Fig. 2: output amplifier (No. 7, Fig. 1): (1) input I (channel 19), (2) input II (channel 18), (3) output.

Card 5/5

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, Ye.I.; SMIRNOV, M.A., red.; MAZEL', Ye.I., tekhn. red.

[Universal computers; instruction coding systems, control, problems of operating speed, efficiency, and reliability] Universal'nye vychislitel'nye mashiny; sistemy kodirovaniia komand, upravlenie, voprosy skorodeistviia, proizvoditel'nosti i nadezhnosti. Moskva, Gosatomizdat, 1961. 113 p. (MIRA 15:11)

(Electronic digital computers)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, Ye.I.

Use of solid state physics phenomena in the development of new computer engineering principles. Vych. tekh. no.3:84-111 '62. (MIRA 15:6)
(Electronic calculating machines) (Solids)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, YE. I.

95

S/089/62/013/006/019/027
B102/B186

AUTHORS: G. T. and M. R.

TITLE: Nauchnaya konferentsiya Moskovskogo inzhenerno-fizicheskogo instituta (Scientific Conference of the Moscow Engineering Physics Institute) 1962

PERIODICAL: Atomnaya energiya, v. 13, no. 6, 1962, 603 - 606

TEXT: The annual conference took place in May 1962 with more than 400 delegates participating. A review is given of these lectures that are assumed to be of interest for the readers of Atomnaya energiya. They are following: A. I. Leypunskiy, future of fast reactors; A. A. Vasil'yev, design of accelerators for superhigh energies; I. Ya. Pomeranchuk, analyticity, unitarity, and asymptotic behavior of strong interactions at high energies; A. B. Migdal, phenomenological theory for the many-body problem; Yu. D. Fiveyskiy, deceleration of medium-energy antiprotons in matter; Yu. M. Kogan, Ya. A. Iosilevskiy, theory of the Mössbauer effect; M. I. Ryazanov, theory of ionization losses in nonhomogeneous medium; Yu. B. Ivanov, A. A. Rukhadze, h-f conductivity of subcritical plasma;

Card 1/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

18

Nauchnaya konferentsiya... S/089/62/013/006/019/027
B102/B186

B. V. Pletnev, F. M. Spevakov, A. M. Stolov, supply of synchrotron electromagnets; G. L. Sakmaganskiy, V. Ya. Moiseyev, flanged separable heat-resistant junctions of great diameter; B. G. Klimov, A. S. Vayradyan, V. P. Yevseyev, I. D. Mikhaylov, I. N. Afonskiy, B. N. Belov, Ye. I. Mamonov, B. I. Strelkov, Ye. V. Sedykh, B. A. Shchukin, optical principles in computer engineering technique; R. S. Nakhmanson, N. M. Roysin, M. E. Mostovlyanskiy, Yu. A. Volkov, electronics; Ye. L. Sulim, transmitter for electromagnetic flow-meter, V. M. Ovsyan..in, V. M. Plushnikov, application of varicondes for transforming d.c. into a.c.

Card 4/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

LETUNOV, Yu.P.; MAMONOV, Ye.I., CHERNYSHEV, Yu.A.

Engineering problems concerning the automation of analog computer programming operations. Vych. tekh. no.4:111-123 '62. (MIRA 16:6)
(Programming (Electronic compu ars))
(Electronic analog computers)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

42777

S/194/62/000/011/003/062
D201/D308

9.7100

AUTHOR: Mamonov, Ye. I.

TITLE: Problems of the evaluation of performance and of the speed of operation of digital computers

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 11, 1962, 23, abstract 11-1-45zh (In collection: Vychisl. tekhnika. no. 2. M., Atomizdat, 1961, 8-20)

TEXT: In the design of digital computers the problem arises of choosing the correct relationships between the speed of operation of component parts of the computer. The above applies to the choice of the optimum circulation time τ_0 and operational arrangement for information storage of the arithmetical unit, having the average time of arithmetical operation T_{av}, as related to different command coding systems and different logical structure. Methods of determining optimum relationships between τ_0 and T_{av} are suggested. The

Card 1/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

assessing of the performance of the digital computer operation is also analyzed. The most widely used approach to this problem consists in that the speed of arithmetical calculations and of logical operations only is considered, without taking into account time losses for the interchange of data between the operational, external and subsidiary apparatus (input, transmission of intermediate results and of additional data during the process of solution and of producing final results). Digital computers with limited storage have larger time losses than computers with very large storage capacity. As a result, whenever the volume of input and output information is considerable, the output and computing possibilities of the computers with large storage capacity may be higher, although their actual speed might be lower. This approach to evaluating the performance therefore becomes of little value. In the article the performance factor $k_p = \frac{V_a}{V_{av}}$ of the computer is introduced for the purpose of performance evaluation, where V_a is the actual

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

and V_{av} the average speed of completing arithmetical and logic operations. The value of k_p is the smaller the greater the portion of time taken by the non-productive interchange of information. With the speed of V_{av} increasing to hundreds of thousands of operations per second and with the increasing discrepancy between the effective input-output capacities, the actual speed of calculations (V_a) will differ more and more than V_{av} and the smaller will be the value of k_p. Apart from the increase of the operation speed, several suggestions for increasing the performance of the computer are given. In particular the following means are indicated: 1. Making the input steps independent of the rate of calculations. This may be achieved by means of parallel connection of several programmed operational memories. This measure will make it possible to avoid performance deterioration due to the relatively low capacities of input and output channels. 2. Increasing the capacity of the operational memory, which will make it possible to lower the quantity

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

of forced data interchange operations between the input-output arrangements and subsidiary circuits, during which no calculation is made by the machine. The increase of the capacity should correspond to the increase in the speed of operations. 3. Going over to coded systems of operation which would not require decimal-to-binary transformations within the computer. 4 figures. 4 references. [Abstracter's note: Complete translation.]

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

44928

S/745/62/000/004/003/007
D201/D308

S/2572

AUTHORS: Mamonov, Ye. I. and Toropov, V. P.

TITLE: Some problems of parametron study

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Vychislitel'naya tekhnika, no. 4, 1962, 27-38

TEXT: The authors discuss the methods and the results of measurements of some of the parameters of parametric devices: 1. Measurement of the variable reactive parameter by resonance method of semiconductor diodes Д808 (D808) to Д813 (D813). The obtained results show that the above diodes can be successfully used as nonlinear capacitances, with an adequate depth of capacitance modulation for small changes of the control junction voltage. Ferrite toroids ВТ-5 (VT-5) were found to be suitable only in the region of strong hysteresis. The indirect method of measurement of the parameters, i.e. taking oscillograms of hysteresis loop with subsequent recalculation of the required reactive parameter, is more universal, although less accurate. This method was used for Seignette salt capacitors

Card 1/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

Some problems of ... S/745/62/000/004/003/007
D201/D308

ЗК-1 (VK-1). 2. The experiments, together with theoretical considerations of the frequency characteristics of parametrons, have shown that the above diodes and VK-1 capacitors are not suitable for common use on parametric devices because of the high cost of the diodes and of high d.c. and a.c. voltages required for their operation, the Seignette salt and ferrite elements having large hysteresis losses which limit the operating frequency. The most promising, from the point of view of speed and economy, are ferromagnetic and Seignette films, operating at pumping frequencies up to about 100 Mc/s. There are 12 figures.

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

MAMONOV, Ye.I.; SEDYKH, Ye.V.

Problems concerning the reliability of automatic electronic computers. Some theoretical and practical trends in the solution of the problem. Vych. tekh. no.4:65-78 '62. (MIRA 16:6)
(Electronic digital computers)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2

S/745/62/000/003/004/004

AUTHORS: Mamonov, Ye. I. and Koval'skiy, Yu. M.

TITLE: Semiconductor control system for a ferroelectric information-storage unit

Source: Moscow. Inzhenerno-fizicheskiy institut. Vychislitel'naya tekhnika. no. 3. 1962. 112 - 122.

TEXT: A ferroelectric two-demensional memory matrix with readout by reversal of polarization (switching) is described. The control system comprises an address register (10 binary digits) in the form of a binary counter, a receiving register (32 digits) made up of static transistor flipflops, and write and read amplifiers. All are described in details. Oscillograms and pictures of a model designed for storage of 1024 32-digit words are presented. The system was checked with a variety of ferroelectric matrices and found satisfactory. There are 9 figures.

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110001-2"