

ABALAKIN, Y. K.

Elements of planet σ 196 = 1952 PH. Astron. tsir. no. 151:2 J1 '54.
(MLRA 8:3)

1. Geofizicheskiy institut Akademii nauk SSSR.
(Planets, Minor)

ABALAKIN, V.K.

Elements of the orbit of minor planet 164 1951 QA. Astron. tsir.
no.185:13 0 '57. (MIRA 11:4)

1. Odesskaya astronomicheskaya observatoriya.
(Planets, Minor)

ABALAKIN, V.K.

Stability of libration points in the gravitation field
of a rotating ellipsoid. Biul.Inst.teor.astron. 6
no.8:543-549 '57. (MIRA 13:3)
(Problem of two bodies)

ABAIKIN, V.K.

Elements of the orbits of three minor planets 145, 160, and
202. Astron. tsir. no. 193:15-16 Jy '58. (MIRA 12:1)

1. Odesskaya astronomicheskaya observatoriya.
(Planets, Minor)

ABALAKIN, V.K. (Odessa)

Orbit of the minor planet 1954 XC. Astron. tsir. no.199:8 Ja '59.

(Planets, Minor)

(MIRA 13:2)

ABALAKIN, V.K.

Orbit of minor planet 6 215. Astron. tsir. no. 200:7 Mr '59.
(MIRA 13:2)

1. Odesskaya astronomicheskaya observatoriya.
(Planets, Minor)

ABALAKIN, V.K.

Elliptic elements of the orbit of the new Trojan asteroid 1957 MK.
Astron. tsir. no.207:5-6 D '59. (MIRA 13:6)

1. Institut teoreticheskoy astronomii AN SSSR.
(Planets, Minor)

S/124/60/000/003/002/017
A005/A001

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 3, p. 7, # 2878

AUTHOR: Abalakin, V. K.

TITLE: On the Motion of a Material Point Within a Heterogeneous Gravitating Three-Axial Ellipsoid

PERIODICAL: Byul. In-ta teor. astron. AN SSSR, 1959, Vol. 7, No. 5, pp. 327-353
(English summary)

TEXT: The author applies the theory of the material point motion within a heterogeneous gravitating ellipsoid to studying the star motion within a star cluster. The expression for the potential is derived on the assumption that the ellipsoid represents a system of infinitely thin homothetic homogeneous layers. A certain sphere consisting of concentric homogeneous layers is considered as the model of the first approximation. The general solution of the equations of first approximation is studied at first qualitatively by the method of singular points and further, the solution is presented analytically in the form of convergent periodically (in time) series in powers of the eccentricity. The inclination

✓B

Card 1/2

S/124/60/000/003/002/017
A005/A001

On the Motion of a Material Point Within a Heterogeneous Gravitating Three-Axial Ellipsoid

and the node of the obtained solutions are arbitrary constants; the perihelion is mobile, the radius-vector is a periodic function of the polar angle with an arbitrary period. ✓B

G. A. Merman

Card 2/2

3.2200

26634
S/044/60/000/003/006/012
C111/C222

AUTHOR: Abalakin, V.K.

TITLE: On the motion of a material point in an inhomogeneous gravitating triaxial ellipsoid

PERIODICAL: Referativnyy zhurnal. Matematika, no.3, 1960, 86, abstract 3059. (Byul. In-ta teor. astron. AN SSSR, 1959, 7, no.5, 327-353)

TEXT: The author considers the motion of a material point in a gravitating inhomogeneous triaxial ellipsoid. The development of the power function for an inner point of such an ellipsoid is used which is obtained at the beginning of the article. Under the assumption that the ellipsoid is little different from a sphere the author introduces a small parameter so that the second excentricities of the ellipsoid are proportional to this parameter. Then the author applies the method of Poincaré to the differential equations for the motion of the material point in the ellipsoid. The generating periodic solution of the simplified equations corresponding to the value 0 of the parameter is investigated. Then the author seeks the periodic solutions of the rigorous equations being neighboring to the generating solutions. The

Card 1/2

On the motion of a material point...

26634
S/044/60/000/003/006/012
C111/C222

obtained periodic solutions describe the motion of the point in a plane inclined arbitrarily to the equator.

[Abstracter's note: Complete translation.]

Card 2/2

ABALAKIN, V.A.

Letter to the editor. Astron. tsir. no.209:47-48 Mr '60.
(MIRA 13:9)

1. Odesskaya astronomicheskaya observatoriya.
(Planets, Minor)

ABALAKIN, V.K.

Elliptic orbit elements of minor planet ϵ 170. Astron. tsir. no.212:
4-5 Je '60. (MIRA 13:10)

1. Odesskaya astronomicheskaya observatoriya.
(Planets, Minor)

ABALAKIN, V. K.

Cand Phys-Math Sci - (diss) "Periodic motions of stars within
ellipsoidal star clusters." Leningrad, 1961. 7 pp; (Leningrad
Order of Lenin State Univ imeni A. A. Zhdanov); 180 copies;
price not given; (KL, 7-61 sup, 217)

S/035/62/000/004/002/056
A001/A101

AUTHOR: Abalakin, V. K.

TITLE: Elliptical elements of the orbit of asteroid 1956 AA = 1927 AA

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 4, 1962, 11,
abstract 4A105 ("Astron. tsirkulyar", 1961, marta 2, no. 219, 6 - 7)

TEXT: The author presents the system of elliptical elements of asteroid 1956 AA calculated by him from three observations of F. Rigaux and L. Boyer. Deviations $\Delta\alpha\cos\delta$ and $\Delta\delta$ are given for observations which were not considered in determination of the orbit.

M. F.

[Abstracter's note: Complete translation]

Belissa Astronomical Observatory

Card 1/1

S/511/61/008/003/002/004
A001/A101

AUTHOR: Abalakin, V.K.

TITLE: On periodic motions of stars in ellipsoidal star clusters

SOURCE: Akademiya nauk SSSR. Institut teoreticheskoy astronomii. Byulleten'. v. 8, no. 3 (96), 1961, 173 - 214.

TEXT: The purpose of the present study is description of the motion of an individual star within a non-homogeneous ellipsoidal star cluster, based on the application of the theory of periodic orbits exposed by H. Poincaré in his "Les méthodes nouvelles de la mécanique céleste". At first the author describes the basic tenets of the theory of periodic solutions of systems of differential equations starting from the existence theorem proved by Poincaré. Then he considers the general problem of the motion of a star within an ellipsoidal stellar cluster in a self-consistent force field with gravitational potential V . It is assumed that the star cluster rotates as a solid body with a constant angular velocity n' around its polar axis. The case of a non-rotating cluster is considered as a particular case for which all the equations derived retain their validity. From.

Card 1/4

On periodic motions of stars in ellipsoidal

S/511/61/008/003/002/004
A001/A101

the system of differential equations describing the motion of an individual star, the author singles out the so-called generating system of equations independent of a small parameter ν for which a quantity is selected related to second eccentricities λ and μ of the ellipsoidal star cluster in question. Conditions of periodicity for the generating solution are found in the following form:

$$\left. \begin{array}{l} - n^1 T = 2k_1 \pi, \\ b (n^1 a_1 + a_3, a_2) T = 2k_2 \pi, \\ n (n^1 a_1 + a_3, a_2) T = 2k_3 \pi, \end{array} \right\} \quad (69)$$

for the general case and

$$\left. \begin{array}{l} b (a_2, a_3) T = 2k_2 \pi, \\ n (a_2, a_3) T = 2k_3 \pi. \end{array} \right\} \quad (69a)$$

for a non-rotating ellipsoid. This generating solution corresponds to the motion of an individual star within a globular stellar system which differs only slightly from the given ellipsoidal cluster in view of smallness of second eccentricities. The next problem considered is the determination of periodic solutions of the full initial system of equations at a small but non-zero parameter. In view of the fact that the system is autonomous and the system admits of time-indepen-

Card 24

On periodic motions of stars in ellipsoidal

S/511/61/008/003/002/004
A001/A101

dent integral of kinetic energies, periodic solutions are obtained which depend on two arbitrary constants, one of which is the arbitrary initial instant. As a consequence of the solutions found, the author derives expressions for the mean motion n of a star in its orbit:

$$n = \sqrt{8A_0 - 15A_1 r_1} \left[1 - \frac{15A_1}{2r_1} \cdot \frac{7A_0 - 10A_1 r_1}{(8A_0 - 15A_1 r_1)^2} e^2 + \dots \right] \quad (91)$$

and for the mean motion of its pericenter b as follows:

$$b = \frac{a_2}{r_1^2} \left(1 - \frac{15}{2r_1} \cdot \frac{A_1}{8A_0 - 15A_1 r_1} e^2 + \dots \right). \quad (90)$$

In conclusion the author proves the existence of periodic motions of a star for certain particular commensurability relations between the mean motion of the star, the motion of the pericenter of its orbit and the angular velocity of rotation of the stellar cluster itself. It is determined that in some cases when such periodic motions exist, they proceed only in planes perpendicular to the equatorial plane of the non-rotating ellipsoidal star cluster at some definite values of eccentricity. Some critical values of eccentricity are found for which the ques-

Card 3/4

On periodic motions of stars in ellipsoidal....

S/511/61/008/003/002/004
A001/A101

tion of the existence of periodic motions can not be decided in the first approximation. The periodic solutions calculated can characterize dynamic evolution of individual orbits of stars in ellipsoidal stellar systems. There are 1 figure and 1 table. ✓

SUBMITTED: July 22, 1960

Card 4/4

ABALAKIN, V.K.

Elliptic elements of new asteroid 1960 UA, Astron. tsir. no.228:
7-8 Ap '62. (MIRA 16:6)

1. Odesskaya astronomicheskaya observatoriya.
(Planets, Minor)

ABALAKIN, V.K.

Elliptic elements of the orbit of asteroid 1961. Astron. tsir. no. 231:
8-9 N '62. (MIRA 16:4)

1. Odesskaya astronomicheskaya observatoriya.
(Planets, Minor)

ABALAKIN, V.K.

Elliptic elements of the orbit of the new minor planet 1961.

Astron. tsir. no. 231:9-10 N 62.

(M.I.A 1624)

1. Odesskaya astronomicheskaya observatoriya.
(Planets, Minor)

ABALAKIN, V.K.

Periodic motions of stars in heterogeneous ellipsoidal stellar systems. *Biul.Inst.teor.astron.* 9 n .3:204-212 '63. (MIRA 16:10)

СПИ-КИМ. В.К.

Elliptical orbital elements of minor planets
1960 OS. Publ. Inst. Geor. astron. Acad. Sci. USSR
M. S. Gerasimovic

1. Odeskaya astronomicheskaya observatoriya.

PA 32/49T10

ABALAKOV, B. V.

USSR/Electricity
Vacuum Pumps
Ejectors

Jun 48 ✓

"Setting Up a Water-Jet Ejector to Maintain a Vacuum in Emergency Circulating Pumps," B. V. Abalakov, Engr, 3/4 p

"Elek Stants" Vol XIX, No 6

Describes system, with line diagram and dimensioned sketch of ejector. Ejector saves wear and tear on electric vacuum pumps, and increases reliability of emergency arrangements.

32/49T10

ABALAKOV, B.V., inzh.; SAVEL'YEV, V.I., red.;

[Mechanics manual on the installation of equipment in the machine rooms of thermal electric power plants] Pamiatka slesaria po montazhu oborudovaniia mashinnogo zala teplovoi elektrostantsii. Moskva, Gos. energ.izd-vo. No.1. [Installation of steam turbines and generators] Montazh parovykh turbin i generatorov. 1961. 79 p. (MIRA 15:2)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva elektrostantsiy. Tsentral'noye normativno-issledovatel'skoye byuro. (Steam turbines) (Turbogenerators)

ABALAKOV, V.

ABALAKOV, V., zaslushennyy master sporta.

Under the "Spartacus" banner. Prom.koop. no.5:32-33 My '57.

(Mountaineering)

(MLRA 10:8)

liberal
ABALAKOV, Yevgeniy Mikhailovich [deceased]; TIKHONOV, N., otv. red;
LETAVET, A., otv. red.; BOL'SHAKOV, V.P., red.; DOROKHINA,
I.N., tekhn. red.

[On the highest summits of the Soviet Union] Na vysochai-
shikh verшинakh Sovetskogo Soiuza. Moskva, Izd-vo AN SSSR,
1962. 489 p. (MIRA 16:10)

(Mountaineering)

ABALAKOVA, G. V.

Land Geograph Sci

Dissertation: "Peculiarities in Development of Agriculture in the Mountain
Zone of Dagestan." 23/5/50

Inst of Geography, Acad Sci USSR

ABALAKOVA, G.V.

Agricultural zoning in the European-people's democracies. Izv. AN
SSSR. Ser. geog. no.6:111-117 N-D '60. (MIRA 13:10)

1. Institut geografii AN SSSR.
(Europe, Eastern--Agricultural geography)

ABALDUYEV, B.V., inzh.; KOZHEVNIKOVA, Ye.P., kand.med.nauk; BOGOMOLOV, S.G.,
kand.fiziko-matematicheskikh nauk

Method for the quantitative spectral determination of silicon in
the urine. Sbor. rab. po silik. no.2:185-188 '60. (MIRA 14:3)

1. Sverdlovskiy gosudarstvennyy meditsinskiy institut.
(URINE ANALYSIS AND PATHOLOGY) (SILICON)

SHUSTINA, A.L.; ABALDUYEV, B.V.; GORFINKEL', B.I.; ZAGREBNEVA, S.V.

Studies of a cold MgO cathode. Radiotekh. i elektron. 7 no.9:1539-
1546 S '62. (MIRA 15:9)
(Cathodes) (Electron tubes)

ABALIKHIN, A.A.

Significance of axial pictures with prosthesis in exact roentgenologic localisation of ocular foreign bodies. Vest. oft., Moskva 32 no. 1:21-28 Jan-Feb 1953. (GIML 24:1)

1. Docent. 2. Of the Clinic for Eye Diseases of Stalingrad Medical Institute.

ABALIKHIN, A.A., dotsent (Moscow)

Use of roentgenokymographic examination in surgery of the esophagus and cardia, Klin. med. 32 no.8:31-37 Ag '54. (MLRA 7:10)

1. Iz kafedry fakul'tetskoy khirurgii pediatricheskogo fakul'teta (sav. prof. B.V.Petrovskiy) i kafedry rentgenologii (sav. prof. V.A.D'yachenko) II Moskovskogo meditsinskogo instituta imeni I.V.Stalina.

(ESOPHAGUS, radiography, kymography, in surg.)

(STOMACH, radiography, kymography of cardia, in surg.)

Aleksandr (Andreyevich)

ADALIKHIN, A.A.

"Roentgenological Observations After an Operation on the Esophagus and Upper Portion of the Stomach." Dr Med Sci, Second Moscow State Medical Inst named I. V. Stalin, Moscow, 1955. (KL, No 11, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

ABALIKHIN, A.A., doktor meditsinskikh nauk

Functional restoration of the esophagus and its compensatory adaptation following surgical treatment of cardiospasm [with summary in English]. Vest.rent. i rad. 32 no.2:43-48 Mr-Apr '57.
(MIRA 10:8)

1. Iz kafedry obshchey khirurgii (zav. - prof. A.A.Polyantsav) i kafedry rentgenologii i radiologii zav. - doktor meditsinskikh nauk A.A.Abalkhin) Stalingradskogo meditsinskogo instituta (dir. - prof. B.S.Yurov)

(CARDIOSPASM, surgery,

postop. funct. restoration of esophagus & its compensatory adaptation (Rus))

~~ABALIKHIN, A.A.~~

Apparatus for locating foreign bodies in the eye. Vest. oft.
70 no.1:37-40 Ja-F '57 (MLRA 10:5)

1. Kafedra glaznykh bolezney (zav.-prof. T.I. Yeroshevskiy)
Kuybyshevskogo meditsinskogo instituta i kafedry rentgenologii i
radiologii (zav.-doktor meditsinskikh nauk A.A. Abalikhin)
Stalingradskogo meditsinskogo instituta.
(EYE, foreign bodies
appar. for location of foreign bodies) (Rus)

ADALIKHIN, S. A.

USSR/Medicine (Veterinary) - Infectious Diseases Apr 52

"Infection of Goats With Braxy," M.K. Boyko, S. A. Adalikhin, Vet Physicians, Stalingrad Oblast Vet Bacteriol Lab

"Veterinariya" Vol XXIX, No 4, pp 31,32

Describes a local braxy epizootic which affected goats and occurred in 1949. Gives account of the immunological and pathoanatomical investigations that were carried out in this connection. States that on farms where the animals were immunized with

207773

USSR/Medicine (Veterinary) - Infectious Diseases (Contd) Apr 52

braxy formol vaccine in 1949, no incidences of the disease occurred in 1950, while on farms where immunization was not carried out, cases of braxy occurred.

207773

← ABALKIN, Leonid Ivanovich; VAL'TUKH, Konstantin Kurtovich;
DOLOTENKOVA, Liliya Pavlovna; MANDRYGINA, Faina
Aleksandrovna; PLYSHEVSKIY, B.P., red.; MATSUK, R.V.,
red. izd-va; GARINA, T.D., tekhn. red.

[Study of the production of the means of production under the
conditions of the general crisis of capitalism; based on the
U.S.A.] Ocherk vosproizvodstva v usloviakh obshchego krizisa
kapitalizma; na primere SShA [By] L.I. Abalkin i dr. Moskva,
Vysshaya shkola, 1962. 118 p. (MIRA 15:8)
(United States--Economic conditions)

ABALKIN, Leonid Ivanovich; LADYGIN, Boris Nikolayevich; Primal
uchastiye SHIRYAYEV, Yu.S.; BABURINA, I.Ye., red.izd-va;
YEZHNOVA, L.L., tekhn. red.

[The economic laws of the development of the world socialist
system] Ekonomicheskie zakonomernosti razvitiia mirovogo
sotsializma. Moskva, Gos.izd-vo "Vysshaya shkola," 1963. 84 p.
(MIRA 16:7)
(Communist countries--Economic development)

АВТОРИ, И.И.

EPP
.R92307

О ТВОРЧЕСКОМ МЕТОДЕ К.С. СТАНИСЛАВСКОГО. МОСКВА, ИЗД-ВО ЗНАНИЕ,
1952. 30 П. (ВСЕСОЮЗНЫЕ ОПРОСЫ ПО ВОПРОСАМ МЕТОДОВ ПОЛИТИЧЕСКИХ
И НАУЧНЫХ ЗНАНИЙ. 1952, СЕРИЯ I, №. 31)

CHERNENKO, M.B.; LUKIN, Yu.B.; GUSEV, K.M.; KUDREVATYKH, L.A.; MAKARENKO, Ya.I.; SATYUKOV, P.A., red.; STEPANOV, V.P., red.; SELYUK, S.I., red.; SUTOTSKIY, S.B., red.; ABALKIN, N.A., red.; KOZEV, N.A., red.; AVERCHENKO, B.Ye., red.; SOBOLEV, L.S., red.; SIMONOV, K.M., red.; POLEVOY, B.N., red.; GALIN, B.A., red.

[Heroes of our times] Geroi nashikh dnei. Moskva, Izd. gazety "Pravda," 1961. 619 p. (MIRA 14:11)
(Labor and laboring classes)

CAKLIN, V.D.; ABALMASOVA, E.A.; PROCHOROVA, A.G.

Analysis of causes of the progress of scoliosis. Acta chir.
orthop. traum. cech. 29 no.4:315-320 Ag '62.

1. Klinika detske ortopedie a traumatologie, vedouci clen korespondent
ALV SSSR prof. V.D. Caklin Ustredni ustav traumatologie a ortopedie
CITO, reditel clen ALV SSSR prof. N.N.Prirov. Moskevskaja ortopedicka
vojenska nemocnice; nacelnik S.N.Voskresenskij, DrSc.
(SCOLIOSIS)

ABAL'MASOVA, YE. A.

ABAL'MASOVA, YE. A. -- "Experimental Transplantation of Human Bones Preserved under Low Temperature." Acad Med Sci USSR, Moscow, 1956.
(Dissertation for the Degree of Candidate of Medical Sciences)

SO: Knizhnaia Letopis' No 43, October 1956, Moscow

ABAL'MASOVA, Ye.A., GINZBURG, H.L.

Transplantation of refrigerated bone homografts [with summary in English]. Eksper.khir. 1 no.2:30-35 Mr-Apr '56 (MIRA 11:8)

1. Iz Instituta khirurgii imeni A.V. Vishnevskogo ANS SSSR (dir. - chlen-korrespondent AN SSSR prof. A.A. Vishnevskiy(i Moskovskogo ortopedicheskogo gosspitalya (nachal'nik gosspitalya - kandidat meditsinskikh nauk S.N. Voskresenskiy, nauchnyy rukovoditel' prof. V.D. Chaklin).

(TRANSPLANTATION, experimental,
bones refrigerated homografts (Bus))

EXCERPTA MEDICA Sec 9 Vol 13/6 Surgery June 59

2958. (806) THE USE OF BONE HOMOGRAFTS PRESERVED IN COLD IN CLINICAL PRACTICE (Russian text) - Abalmasova Z. A. - ORTOP. TRAVM. PROTEZ. 1958, 19/2 (28-32) Tables 1

Four techniques of freezing have been used: quick and deep freezing down to -30° to -35° C., followed by storing the grafts in a temperature between -3° and -4° C. In the second series the grafts were preserved all the time at a temperature of -18° to -20° C. In the third series they were stored at a temperature of -3° to -4° C. and in the fourth series the homografts were quickly frozen down to -60° to -70° C., and after being stored at that temperature for 24 hr. they were transferred to a temperature of -3° to -4° C. The first series gave best results. This grafting material was used to fill bone defects in 9 cases, to fill a cyst cavity in 8 cases, for arthrodesis in 2 cases, as a packing material in osteomyelitis in 7 cases, and as filling material in tb in one case. The results were very encouraging in the first three groups; they are uncertain in infected areas. Boytchev - Sofia (IX, 1958)

ABAL'MASOVA, Ye.A., starshiy nauchnyy sotrudnik

Preoperative correction of scoliosis and causes of its failure.
Ortop. travm. i protez, 21 no. 7:13-13 JI '60. (MIRA 13:10)
(SPINE--SURGERY)

CHAKLIN, V.D., prof.; ABAL'MASOVA, Ye.A., kand.med.nauk; PROKHOROVA, A.G.,
kand.med.nauk

Treatment of lateral curvatures of the spine in children. Ortop.,
travm.i protes. 23 no.5:30-35 My '62. (MIRA 15:11)

1. Iz kliniki detskoy ortopedii i travmatologii (zav. - prof.
V.D. Chaklin) Tsentral'nogo instituta travmatologii i ortopedii
(dir. - doktor med.nauk M.V. Volkov).
(SPINE--ABNORMITIES AND DEFORMITIES)

CHAKLIN, V.D., prof.; ABAL'MASOVA, Ye.A., kand.med.nauk; PROKHOROVA, A.G.,
kand.med.nauk

Comparative evaluation of the use of various types of grafts in
fixation of the spine in scoliotic children. Vest.khir. 89 no.8:
8-12 Ag '62. (MIRA 15:10)

1. Iz kliniki detskoy ortopedii (zav. -- prof. V.D.Chaklin)
TSentral'nogo instituta travmatologii i ortopedii. 2. Chlen-
korrespondent AMN SSSR (for V.D. Chaklin).
(SPINE--ABNORMITIES AND DEFORMITIES)
(ORTHOPEdia)

CHAKLIN, V.D., prof.; ABAL'MASOVA, Ye.A., kand. med.nauk; LAVRISHCHEVA, G.I.,
kand.med.nauk.

Regeneration processes during intra and extramedullary osteo-
synthesis. Ortop., travm. i protez. no.1:10-15'63.

(MIRA 16:10)

1. Iz klinicheskogo otdeleniya detskoy ortopedii i travmatologii
(zav. - prof. V.D.Chaklin na baze Moskovskogo ortopedicheskogo
gospitalya (nachal'nik - doktor med.nauk S.N.Voskresenskiy)
i iz patologoanatomicheskogo otdeleniya (zav. - zasluzhennyy
deyatel' nauki prof. T.P.Vinogradova) Tsentral'nogo instituta
travmatologii i ortopedii (dir. - prof. M.V.Volkov).

*

ABAL'MASOVA, Ye.A., kand.med.nauk

Scoliosis in the X-ray picture and its measurement. Ortop., travm.
i protez. 25 no.5:49-50 My '64. (MIRA 18:4)

1. Iz kliniki detskoy ortopedii i travmatologii (zav. - chlen-korrespondent AMN SSSR prof. V.D.Chaklin) Tsentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V.Volkov) na baze Moskovskogo ortopedicheskogo gosпиталя: (nachal'nik - doktor med.nauk S.N.Voskresenskiy). Adres avtora: Moskva A-299, Novaya Ipatovka, d.8. Tsentral'nyy institut travmatologii i ortopedii.

ARAL'MASOVA, Ye.A., staryiy nauchnyy sotrudnik (Moskva Zh-33, Rabochaya ul,
d. 45, korp. 15, kv.41); KOGAN, A.V.

Dysplastic scoliosis. Ortop., travm. i protez. 26 no.7:3-9 J1 '65.
(MIRA 18:7)

1. Iz klinicheskogo otdeleniya (nauchnyy konsul'tant - chlen-kor-
respondent AMN SSSR prof. V.D.Chaklin) Tsentral'nogo instituta trav-
matologii i ortopedii (direktor: chlen-korrespondent AMN SSSR prof. M.V.
Volkov) na baze Moskovskogo ortopedicheskogo gosptalya (nachal'nik -
doktor med. nauk S.N.Voskresenskiy).

ACC NR: AFG015768

(A, N)

SOURCE CODE: UR/0048/66/030/005/0784/0786

AUTHOR: Ivanov, R. D.; Abalmazova, M. G.

ORG: none

TITLE: A universal high-resolution electron mirror microscope (UZEM-60) Report,
Fifth All-Union Conference on Electron Microscopy held in Sumy 6-8 July 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 784-786 TH

TOPIC TAGS: electron microscope, electron optics, electron mirror, electron emission

ABSTRACT: A pilot model electron mirror microscope, constructed by modifying an EM-7 electron transmission microscope, is described very briefly. The instrument consists of an electron gun, a magnetic condensing lens with an iris and a magnetic stigmator, a fluorescent screen, an intermediate electromagnetic lens, and a five-electrode electrostatic objective similar to that of A. Septier (Compt. rend. Acad. sci., 235, 13 (1952)). The electrons, after passing in order through the above listed elements, are decelerated and reflected at the surface of the specimen and, after passing again through the objective and the intermediate lens, are brought to a focus on the fluorescent screen. The electrostatic objective has the form of a cone with a cutoff angle of 30°; this makes it possible to bombard the specimen with ions or illuminate it with ultraviolet light, thus considerably enhancing the versatility of the instru-

Card 1/2

ACC NR: AP6015766

ment. Particular attention was given to correction of astigmatism; there is a magnetic stigmator in the condensing lens and an electrostatic stigmator of the type described by O.Rang (Optik, 5, 518 (1949)) in the region of the objective lens. Accelerating voltages up to 60 kV are provided. Several photographs recorded with the instrument are presented. On one of these separate points can be distinguished that are separated by 700 \AA , but this does not represent the ultimate resolution of the microscope. The instrument can be operated not only as an electron mirror microscope, but also as a thermoelectron, photoelectron, or secondary electron emission microscope. Orig. art has: 4 figures.

SUB CODE: 20/

SUBM DATE: 04/

ORIG REF: 003/

OIH REF: 003

Card 2/2

L 19562-65 EWT(1)/EWT(m)/T/EMP(t)/ERC(b)-2/EEP-2/EMP(b)
AFML/ASD(F)-5/AS(MP)-2/AFTC(b)/EID(t) 110
ACCESSION NO. 104 110006

Pa-3 AFTC

Author: Luf'yanov, A.Ye.; Abalmazova, M. I.

TITLE: Observation of local contaminant films by means of a microscope.
scope /Report: 1104 All-Union Conference

BY NSAS. In: Seriya Fizicheskoye

electron emission, electron microscopy, contamination, microscope

GROUP of emitter surfaces, microscopic series of investigations

microscopic series of investigations

ARALOV, A.V.

Nature of the chemical bond in products of the addition of ammonia and
of amines to metallic salts. Zhur.neorg.khim. 1 no.10:2374-2377 0 '56.
(MIRA 10:1)

1. Kishinevskiy gosudarstvennyy universitet.
(Salts) (Chemical bonds)

ABALYAN, N.; ASATURYAN, V.; BALAYAN, A.; OVCHIYAN, V.

A map of corrosiveness and its use in planning protective
measures for underground metal constructions. Prom.Arm.
4 no.10:56-59 0 '61. (MIRA 14:11)

1. Armiikhimproyekt.
(Corrosion and anti-corrosives)

ABALYAN, N.; OVCHIYAN, V.

Depth of underground pipe laying under the conditions of the
Armenian S.S.R. Prom.Arm. 5 no.8:18-21 Ag '62. (MIRA 15:8)

1. Armnikhimproyekt.
(Armenia—Pipelines)

00778-67 FWT(m)/EWF(t)/ETI LIP(c) ID/WE
 ACC NBR AP6025820 (N) SOURCE CODE: UR/0314/66/000/005/0017/0017

AUTHOR: Abalyan, N. P. (Engr.); Kropivnitskaya, R. A. (Engr.)

39
B

ORG: none

TITLE: Corrosion tests of some structural metals in an ammonium alum medium

SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 5, 1966, 17

TOPIC TAGS: alum, corrosion resistant steel, lead, corrosion rate

ABSTRACT: At the Aramkhimproyekt, corrosion tests of metals (Kh18N9T, Kh25T, 2Kh13 steels, Mi Copper, AO Aluminum, and S2 lead) most frequently employed in the construction of chemical machinery were carried out in a 45% solution of ammonium alum at 20°C and at the boiling point of the saturated solution under static conditions for 720-1440 hr. The corrosion rate was determined gravimetrically. All the metals tested except aluminum were found to be corrosion-resistant. As expected, chromium-nickel steel was more resistant than chromium steels, and lead was more resistant than copper because of the formation of a lead sulfate film. The corrosion resistance of lead increases with rising temperature. It is recommended that Kh18N9T steel be used for making equipment operating at normal temperatures in the production of corundum (where ammonium alum is used as the raw material), and that S2 lead be used for the construction of units operating in the range of 100°C. Orig. art. has: 1 table.

SUB CODE: 11/ SUBM DATE: none

Card 1/1 aww

UDC: 620.193.4

ABAL'YAN, T. S., and KALININ, G. P.

Influence of Relief on the Quantity of Precipitation. Meteorol. i gidrologiya, No. 6, 1953, pp 22-24.

Nonuniformity of distribution of precipitation over a territory depends upon the roughness of the locality and altitudinal position of the region of observations in relation to the surrounding territory. In accordance with data of observations in Central Asia, Stalingrad and Smolensk regions, and south Ukraine, correlational dependences have been found between the quantity of fallen precipitation and a locality's roughness and altitude. In the first case the coefficients of correlation were from 0.56 to 0.82; in the second case the correlation turned out to be but slightly satisfactory. The authors consider that if the roughness's influence is excluded the distribution of precipitation would possess the same pluvial character as the distribution of the factors forming them (moisture content, thermobaric regime of air currents). (RZhGeol, No 5, 1954)

SO: Sum. No. 568, 6 Jul 55

ABAL'YAN, T.S.

KALININ, G.P.; ABAL'YAN, T.S.

Determining the subterranean feeding of rivers. Meteor. i gidrol.
no.5:12-20 My '57. (MLBA 10:8)

(Rivers) (Water, Underground)

AUTHOR: Abal'yan, T. S. SOV/50-58-B-15/18

TITLE: (Review and Bibliography) A. N. Vazhnov "Average Discharge of the Rivers of the Armyanskaya SSR for Several Years and Its Distribution Within the Year" (A. N. Vazhnov "Sredniy mnogoletniy stok rek Armyanskoy SSR i yego vnutrigodovoye raspredeleniye")

PERIODICAL: Meteorologiya i gidrologiya, 1958, Nr 8, pp. 58-59 (USSR)

ABSTRACT: Power engineering and agriculture demand the investigation of all water supplies of Armenia and in the first place of the numerous mountain streams above all of the main part of the drought region. From this point of view the discussed book is completely topical and up-to-date. It consists of 4 chapters and comprises 140 pages, 10 pages of tables, and 29 figures. Chapter I. "A short description of the natural conditions of the region of the republic". It gives the basis for further hydrological regional distribution and for a generalization of the laws for the calculation of the average discharge, its distribution within the year and the variability from year to year. Chapter II. "Average discharge of many years" analyzes the calculation methods of the discharge of the mountain streams and contains suggestions for the application in con-

Card 1/3

(Review and Bibliography) A. N. Vazhnov "Average Discharge of the Rivers of the Armyanskaya SSR of Several Years and Its Distribution Within the Year" SOV/50-58-8-15/18

crete conditions with respect to the republic. Chapter III. "Variability of the annual discharge". The author suggests regional formulae for the computation of the variation coefficient of this discharge, taking into account the rôle of the subterranean feeding (by ground water). Chapter IV. "The average discharge distribution within the year". The characteristic features of the variability of the discharge within the year and of the factors which influence it are analyzed here. At the end of each chapter examples of the discharge calculation are given. The author of the book tried to solve the difficult problem of working out such a method of discharge calculation which is able to determine the discharge characteristics of the rivers in uninvestigated regions in the mountainous Armenia (Armeniya) with an accuracy sufficient for planning purposes. The reviewer thinks that the author solved this problem. He completed considerably and in detail the map by B. D. Zaykov (1946) for Armenia. The investigations by Vazhnov showed that the geological structure of the drainage area influences considerably the discharge under the conditions of the mountainous Armenia. The monograph discussed here

Card 2/3

(Review and Bibliography) A. N. Vazhnov "Average Discharge of the Rivers of
the Armyanskaya SSR of Several Years and Its Distribution Within the Year" SOV/50-58-8-15/18

may serve as device for hydrological calculations.

ASSOCIATION: Izdatel'stvo Akademii nauk Armyanskoy SSR. Yerevan. 1956
(Yerevan, Publishing House of the Academy of Sciences, Armenian
SSR 1956)

Card 3/3

8(6), 14(6)

SOV/112-59-5-8659

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 5, p 38 (USSR)

AUTHOR: Abal'yan, T. S.

TITLE: Forecasting the Chu-River Basin Runoff

PERIODICAL: Tr. Tsent. in-ta prognozov, 1958, Nr 67, pp 3-41

ABSTRACT: For forecasting the runoff of rivers flowing in the Northern slope of the Kirgiz range, a relationship between the runoff and the precipitation from November through April is used; the relationship proved to be fairly conclusive. Materials of snow survey in the Malaya-Almaatinka-River basin have been used.

Ye. A. I.

Card 1/1

ABAL'YAN, T.S.

Runoff of the River Chu above the Orto-Tokoy Reservoir. Trudy TSIP
no.67:42-67 '58. (MIRA 11:6)
(Chu River--Runoff)

ABAL'YAN, T.S.

~~Short-range discharge forecasts for the Amu Darya River.~~
Trudy TSIP no.90:39-46 '59. (MIRA 12:8)
(Amu Darya River--Hydrology)

ABAL'YAN, T.S.

Streamflow distribution in rivers of Central Asia during the growing
period. Trudy TSIP no.99:80-98 '61. (MIRA 14:5)
(Amu Darya Valley--Hydrology) (Syr Darya Valley--Hydrology)

ABAL'YAN, T.S.

Monthly streamflow forecasts for rivers of Central Asia. Trudy
TSIP no.113:3-59 '61. (MIRA 14:9)
(Soviet Central Asia--Rivers)

ABAL'YAN, T.S., kand. geogra. nauk

Effect of the altitude of a river mountain drainage basin
on the course of runoff during the vegetational period.
Meteor. i gidrol no. 62 11-12 1961 (MIRA 1788)

1. Tsentral'nyy institut prognozov.

ABAL'YAN, T.S., kand. geograf. nauk

Role of various high-altitude zones in the formation of the flood flow
of mountain rivers of Central Asia. Meteor. i gidrol. no.8:13-20 Ag
'65. (MIRA 18:7)

1. Tsentral'nyy institut prognozov.

~~ABALYANTS, S. KH.~~
ABALYANTS, S. KH.

3 an

USSR.

2040. Abalyants S. Kh. Transport capacity of open uniform stream (in Russian), *Gidrotekhn. i Melior.* no. 7, 33-41, July 1954. A formula for nonalluvial channels is suggested: $\rho_s = (v^2/R)^{1/2}$, where ρ_s is volumetric concentration of suspension, v mean hydraulic size of particles, v velocity, R hydraulic radius, k const, in metric units equal to 26. S. Kolupalis, USA

gp P.E.
87

ABAL'YANTS, S.Kh. kandidat tekhnicheskikh nauk.

Movement of clayey suspensions in channels. Vop.gidr. no.1:93-99
'55. (MLRA 9:12)

(Sedimentation and deposition)

ABAL'YANTS, S.Kh., kand.tekhn.nauk, red.; ALIMOV, R.A., red.; ALTUNIN, S.T., doktor tekhn.nauk, red.; VYZGO, M.S., red.; ZAPROMETOV, S.G., kand. tekhn.nauk, red.; MUKHAMEDOV, A.M., kand.tekhn.nauk, red.; NIKITIN, I.K., kand.tekhn.nauk, red.; POPOVA, K.L., red.; POSLAVSKIY, V.V., akademik, red.; ROSSINSKIY, K.I., kand.tekhn.nauk, red.; URAZBAYEV, M.T., doktor tekhn.nauk, red.; IVANENKO, T.A., red.izd-va; GOR'KOVA, Z.P., tekhn.red.

[Channel processes and hydraulic engineering; papers of a coordination conference, June 7-12, 1955] Uslovye protsessy i gidrotekhnicheskoe stroitel'stvo; materialy koordinatsionnogo soveshchaniya 7-12 iyunia 1955 g. Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR, 1957. 416 p.

(MIRA 11:5)

1. Akademiya nauk SSSR. Sektsiya po nauchnoi razrabotke problem vodnogo khoziaistva.
 2. Sredneaziatskiy politekhnicheskii institut (for Abal'yants).
 3. Ministerstvo vodnogo khozyaystva UzSSR (for Alimov).
 4. Sredneaziatskiy nauchno-issledovatel'skiy institut irrigatsii (for Vyzgo, Nikitin).
 5. Institut sooruzheniy AN UzSSR. (for Altunin, Zaprometov, Mukhamedov, Urazbayev).
 7. Chlen-korrespondent AN UzSSR (for Alimov, Altunin, Vyzgo).
 8. Akademiya nauk UzSSSR (for Poslavskiy)
- (Hydraulic engineering)

SOV/124-58-4-4310

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 4, p 89 (USSR)

AUTHOR: Abal'yants, S. Kh.

TITLE: On the Suspensoid-carrying Abilities of an Open Flow (O vzveshivayushchey sposobnosti otkrytogo potoka)

PERIODICAL: Dokl. AN UzSSR, 1957, Nr 3, pp 15-19

ABSTRACT: The author's basis is an assumption of the following possibilities: 1. The stream which carries the alluvium can be divided into zones of upcurrents and downcurrents; the pressures in the downcurrent zones are higher than the corresponding hydrostatic values by the increments equal to the velocity heads of the downcurrents, whereas the pressures in the upcurrent zones are correspondingly reduced. 2. The suspended material being lifted in an upcurrent zone increases the density of the mixture; this effect compensates for the decrease in pressure. These assumptions, however unproved, give the author a formal possibility to connect the vertical projections of the velocities in the upcurrent and the downcurrent zones (which the author considers to be mutually equal) with the concentration of alluvium, its hydraulic grading, and the mean velocity of the stream. Bibliography: 9 references.

Card 1/1

V. N. Goncharov

1. Inland waterways--Sedimentation
2. Inland waterways--Velocity
3. Pressure--Performance

ABAL'YANTS, S.Kh., kandidat tekhnicheskikh nauk.

Transport of bottom material in an open channel.
no.6:48-49 Je '57.

Gidr.stroi. 26
(MIRA 10:7)

(Hydraulics)

124-58-9-9862

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 56 (USSR)

AUTHOR: ~~Abal'yants, S. Kh.~~

TITLE: The Transport of Sediments in Small Irrigation Canals (Transport nanosov v malykh orositel'nykh kanalakh)

PERIODICAL: Tr. Sredneaz. n. -i. in-ta irrigatsii, 1957, Nr 89, pp 3-9

ABSTRACT: A report on the results of observations on the transport of sediments (in two small irrigation canals and in the laboratory) for specific Amu-Dar'ya sediments in Yu. Khorezma's irrigation systems. The empirical findings obtained have local significance.

V. N. Goncharov

1. Inland waterways--USSR 2. Sedimentation--USSR

Card 1/1

ABAL'YANTS, S.Kh., dotsent, kand.tekhn.nauk

Transportation of suspended sediments in open channels. Trudy
SANIIRI no.91:77-104 '58. (MIRA 14:1)
(Sedimentation and deposition)
(Irrigation canals and flumes)

ABAL'YANTS, S.Kh.

Turbulence of the flow in the bottom region. Dokl. AN Uz.SSR
no.7:47-50 '58. (MIRA 11:10)

1. Sredneaziatskiy politekhnicheskiy institut. Predstavleno
chlenom-korrespondentom AN UzSSR S.T.Altuninym.
(Turbulencq) (Hydrodynamics)

ABAL'YANTS, S. Kh., Doc Tech Sci (diss) -- "The movement of suspensions in open streams". Moscow-Tashkent, 1959. 28 pp (Min Agric USSR, Moscow Inst of Water Economy Engineers im V. R. Vil'yams), 150 copies (KL, No 23, 1959, 164)

ABAL'YANTS, Sergey Khristoforovich, for Doc of Technical Sci on the
basis of dissertation defended 5 Jul 59 in Council of Moscow Institute
of Engineers of Water ^{Resources} ~~Economy~~ im. Vil'yams, entitled: "The Movement of
^{Suspensions} ~~Suspended-Substances~~ in Open Steams." (ENVISSO USSR, 2-61, 30)

ABAL'YANTS, S.Kh.

Hydraulic resistance in earth canals. Trudy SANIIRI no.108:3-70
'60. (MIRA 14:8)

(Canals) (Hydraulics)

ABAL'YANTS, S.Kh. |

Investigating hydraulic elements in irrigation canals of Central
Asia. Trudy SANIIRI no.108: ~~71380~~ '60. (MIRA 14:8)
(Soviet Central Asia--Irrigation canals and flumes)

ABAL'YANTS, S.Kh., prof. (Tashkent)

Settling basins of the Takhia-Tash Headworks on the Amu Darya River,
Gidr. i mol. 16 no.1:44-47 Ja '64. (MIRA 17:2)

KHACHATRYAN, A.G., doktor tekhn.nauk; ABAL'YANTS, S.Kh., prof. (g.Tashkent);
NURIYEV, Ch.G., inzh. (g.Baku)

Calculating the sedimentation in irrigation settling basins;
concerning F.Sh.Mukhamedzhanov's article. Gidr. i mel. 16
no.3:57-62 Mr '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki i
melioratsii im. Kostyakova (for Khachatryan).

TSVETIKOVA, N.F.; YEFREMOV, A.V., kand. tekhn. nauk, otv. red.; ABAL'YANTS,
S.Kh., doktor tekhn. nauk, prof., red.; GOROSHKOV, I.I., kand. tekhn.
nauk, red.; PROZOROV, G.I., red.

[Technological conditions and norms in the designing of irrigation
settling basins] Tekhnicheskie uslovia i normy po proektirovaniu
irrigatsionnykh otstoinikov. Tashkent, Izv-vo "Nauka" UzSSR, 1964.
66p. (Voprosy gidrotekhniki, no.19) (MIRA 18:5)

ABAL'YANTS, S.Kh., prof. (Tashkent)

New method for protecting the banks of the Amu Darya River.
Gidr. i mel. 17 no.10;36-42 0 '65. (MIRA 18:10)

ABALYAYEV, R.N. (Ivanovo)

Arithmetical excursions. Mat. v shkole no.5:43-46 S-0 '54.

(Arithmetic--Study and teaching) (School excursion)
(MLBA 7:11)

ABALYAYEV, R. N.

Abalyayev, R. N. -- "Arithmetic Problems on Local Material in the Elementary School." Academy of Pedagogical Sciences RSFSR. Sci Res Inst of Teaching Methods. Moscow, 1956. (Dissertation For the Degree of Candidate in Pedagogical Sciences).

So: Knizhnaya Letopis', No. 11, 1956, pp 103-114

I 59248-65 SPP(c)/EPR/EWP(j)/EWA(c)/EWT(z) PC-4/PT-4/PA-4 DDT SWAN
 APRESION NR. AP5010330

Mr. [Name] A. [Name] A.E. [Name] [Name] [Name]

... of ...

... of sodium diethyl ...

... of sodium diethyl ...

... of sodium diethyl ...

... of the corresponding known preparations of ... identical

boride showed that alkylation of the salt is more rapid than isomerization of the triethylthione phosphite.

Orig. art. has: 4 formulas.

A. ORIGIN: Institut elementarorganicheskoi khimii, Akad. Nauk SSSR

MASTRYUKOVA, T.A.; SHIPOV, A.E.; ABALYAYEVA, V.V.; KUGUCHEVA, Ye.Ye.;
KABACHNIK, M.I., akademik

Reactivity of ambident anions. Alkylation of sodium derivatives
of acetoacetic ester and acrylacetone by diethyl oxonium
fluoboride. Dokl. AN SSSR 164 no.2:340-343 S '65.

(MIRA 18:9)

1. Institut elementoorganicheskikh soedineniy AN SSSR.

ABALIMOV, K. N.

⑤
10638* Peat Composts—Excellent Resources for Increasing Yields. (Russian.) L. A. Gorshkov, A. A. Ziza, and K. N. Abalimov. Sad i Ogorod, 1954, no. 3, Mar., p. 28-33.
Experiments using mixtures of organic and mineral fertilizers.
Table, photograph.

ABALYSHNIKOVA, L. M.

"Some Results of an Investigation of Electron Tube Performance in High-Speed Electronic Computers."

The author presents statistical data on the causes of breakdown of electron tubes in high-speed ~~electronic~~ computers with respect to operating conditions. In conclusion, the author states that: 1. the 6N98 and 6N88 tubes suffer breakdown either during the first 1,000 hours of operation or they last 5,000-7,000 hours. 2. the most frequent defects which develop in tubes under any operating conditions are a decrease in plate current and a change in characteristics. There are 2 Soviet references.

*x Voprosy vychislitel'noy matematiki i tekhniki (Problems in Computer Mathematics and Technique) Kiev, Izd-vo AN Ukr SSR, 1988, 97 pp. (Sbornik trudov, vyp 3)

This collection of articles issued by the computer Center of Ukr SSR Acad Sci is intended for scientists and engineers in the field of computer mathematics and techniques. The collection is devoted to the programming of mathematical problems on electronic computers and to the design of units and components of these machines.

ABALYSENKOVA, L. M. and POGREBINSKIY, S. B.

"Investigation of a Flip-Flop With Junction Triode Transistors."

The authors discuss the circuit of a flip-flop using junction type transistors, which ensures stable operation at frequencies up to 400 kc. They also explain a ~~math~~ method for approximate calculation of circuit parameters and provide results of experimental investigation. There is 1 Soviet reference.

Voprosy vychislitel'noy matematiki i tekhniki (Problems in Computer Mathematics and Technique) Kiev, Izd-vo AN Ukr SSR, 1958, 97 pp. (Sbornik trudov, vyp 3)

This collection of articles issued by the computer Center of Ukr SSR Acad Sci is intended for scientists and engineers in the field of computer mathematics and techniques. The collection is devoted to the programming of mathematical problems on electronic computers and to the design of units and components of these machines.

9.7090
9.2586

S/123/60/000/015/004/007
A004/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No. 15, p. 221,
80154

AUTHORS: Abalyshnikova, L. M., Progrebinskiy, S. B.

TITLE: An Investigation of Junction Transistor Flip-Flops ^{16A}

PERIODICAL: Sb. tr. Vychisl. tsentra AN UkrSSR, 1958, No. 3, pp. 76-83

TEXT: The authors investigate a junction transistor flip-flop circuit ²⁵ which, without special triode selection, ensures a steady operation at frequencies up to 400 kilocycles. They give a description of a method of approximate calculation of the circuit parameters, utilizing in one version of the method the family of collector characteristics of the triode, while in another version the rated magnitude of the static current-error constant are used. A calculation example is presented and results of an experimental investigation of the described circuit are given. There are 8 figures and 1 reference. ✓B

Translator's note: This is the full translation of the original Russian abstract. V. Ye. G.

Card 1/1

13.2980 (2202, 1331)
9.7000

89049

S/044/60/000/009/020/021
C111/C222

AUTHOR: Abalyshnikova, L.M.

TITLE: Some Results of an Investigation of the Work of Electron Tubes
in Quickly Working Computers

PERIODICAL: Referativnyy zhurnal. Matematika, 1960, No.9, p.211,
Abstract No.11051. Sb.tr.Vychisl.tsentra AN USSR, 1958,
vyp.3, pp.94-98

TEXT: The author gives statistical data on the cause of the failure of tubes of computers in dependence of the method of operation of the device. The operational utilization of electron tubes in the device МЭСМ АН УССР (MESM AN USSR) was considered. The time of observation was 12000 hours. In the device МЭСМ (MESM) there operate 3790 electron tubes, among them 2299 tubes of the type 6H8C (6N8S) and 1491 tubes of the type 6H9C (6N9S). The causes of the failure were subdivided into 5 groups: the fusing of the heater, a greater diminution of the anode current of the state of operation than it is admissible according to the technical specifications, electrode short circuit, change of the characteristic and mechanical damages. The change of the characteristic means the deviation of the anode current or its slope by more than 25% from the initial ones; that is particularly essential for the work of
Card 1/2

89049

S/044/60/000/009/020/021
C111/C222

Some Results of an Investigation of the Work of Electron Tubes in Quickly Working Computers

the trigger schemes which do not admit the asymmetry. The author gives statistical tables on the failure of the tubes in dependence of the causes. It is stated that the essential damages appear by the diminution of the anode current and by the change of the characteristic. The damage expressed as percentage for tubes working in a normally closed method of operation is greater than for tubes working in a normally open method of operation. For tubes of the type 6N8S working essentially in the trigger schemes, the damage expressed as percentage is greatest because of the change of the characteristic. The tubes 6N9S fail more frequent than the tubes 6N8S because of the fusing of the filament and electricle short circuit. The author gives diagrams of the life of the tubes. By these diagrams it is stated that the tubes of the type 6N9S and 6N8S either fail during the first 1000 working hours or operate 5000-7000 hours. Furthermore it is stated that most of the tubes of the type 6X6C (6Kh6S) (in the device of 2400) fail after 7000-8000 working hours. X

[Abstracter's note: The above text is a full translation of the original Soviet abstract.]

Card 2/2

DASHEVSKIY, Lev Naumovich, kand. tekhn. nauk; POGREBINSKIY,
Solomon Benjaminovich, inzh.; SHKABARA, Yekaterina
Alekseyevna, kand. tekhn. nauk. Prinimali uchastiye:
LOSEV, V.D.; ABATYSHNIKOVA, L.M.; ZORINA, Z.S.;
ORLOVA, I.A.; ZUBATENKO, A.Ya.; PAVLENKO, Yu.S., inzh.,
retsensent; GLUSHKOV, V.M., akademik, red.

[The "Kiev" computer; its design and operation] Vychislitel'naya mashina "Kiev"; proektirovanie i ekspluatatsiya. Kiev, Tekhnika, 1964. 322 p. (MIRA 17:11)

ABALYSHNIKOVA, V.I.

Use of mathematics and electronic computations in the development
of long range high quality standards. Ugol' 35 no. 12:45-47
D '60. (MIRA 14:1)

1. Khar'kovskiy gornyy institut.
(Coal mines and mining--Standards)

ABAMELIK, YE. M.

PA 26/49T57

USSR/Geology
Petrology
Stratification

Jan 49

"The Petrography of Neo-Intrusions Near Tkemlovant (Georgian SSR)," V. R. Hadzradze, Ye. M. Abamelik, 4 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 1

Description and diagram of geological construction around Tkemlovant show volcanic layer, bedded limestones and marls, calcareous sandstones, bedded tuffaceous formation, coarse-stratified tuffaceous formation, Gabbro-diorite intrusion, intrusion

26/49T57

USSR/Geology (Contd)

Jan 49

of alkaline rocks, magnetite seams, and upthrusts and overthrusts. Submitted 2 Jul 48.

26/49T57

BUKIYA, S.G.; ABAMELIK, Ye.M.

Metallogenetic forecasting map of Abkhazia. Zakonom.razm.polezn.
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