

ACC NR: AN7003470

SOURCE CODE: UR/9025/67/000/025/0003/0003

AUTHOR: Borisov, T. (Engineer, Scientific reviewer for Trud)

ORG: none

TITLE: Haste fatal to American cosmonauts

SOURCE: Trud, no. 25, 29 Jan 67, p. 3, cols. 2-4

TOPIC TAGS: space test, manned spacecraft

ABSTRACT: The tragedy at Cape Kennedy is not the first case of the death of US cosmonauts during training. On 31 October 1964, while flying a training craft, Cosmonaut Freeman was killed, and on 28 February 1966, while having some trouble with their training aircraft, Bassett and Lee also perished. These three cosmonauts became victims of pure chance, and their deaths were not connected with space equipment. Cosmonauts Grissom, White, and Chaffee perished as a result of a breakdown in the space equipment. For the time being, it can only be definitely said that the tragedy is far from being a question of pure chance. The cosmonauts became victims of a space race created by the directors of the US space program. Even during the Mercury flights a very large number of dangerous technical malfunctions occurred. After the flight of four spacecraft, NASA published a report in which it stated that the firms that took part in project

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UDC: none

ACC NR: AN7003470

Mercury often delivered faulty equipment. The Gemini flights in 1965 and 1966 were conducted in even greater haste. In addition, the number of malfunctions increased, and they were often very serious in nature. The American cosmonauts should be praised, because more than once they successfully came out of very difficult situations, when danger was knocking on the walls of the spacecraft. Recently, the hurry and haste connected with flights has continued to grow. This is because the moon has become attainable. After all, the ship in which the American cosmonauts perished is a replica of that which is to take them to the moon before the end of this decade. After quoting the Associated Press concerning the delay in the Apollo program, the author writes that there are enough dangers in space without the USA space directors adding to them.

SUB CODE: 22/ SUBM DATE: none/ ATD PRESS: 5112

Card 2/2

MIKHAYLOV, G.P.; BORISOV, T.I.; DMITROCHENKO, D.A.

Relaxation dielectric losses in polymethylmethacrylate.
Zhur. tekhn. fiz. 26 no.9:1924-1928 S '56. (MLBA 9:11)

1. Institut vysokomolekulyarnykh soyedineniy Akademii nauk
SSSR, Leningrad.
(Methacrylic acid) (Flexiglas--Electric properties)

BORISOV, T.N.

Enforce the inspection of end switches in cranes. Bezop.truda v
prom. 2 no.5:18-19 My '58. (MIRA 11:4)
(Electric cranes)

BORISOV, T.N., inzh.

Intercrystalline breakdown of metal of low-power steam boilers.
Bezop.truda v prom. 6 no.2:17-18 F '62. (MIRA 15:2)
(Boilers)
(Corrosion and anti-corrosives)

BORISOV, U.

Reserves move into the fields. Prof.-tekh. obr. 20 no.4:9-10
Ap '63. (MIRA 16:5)
(Kharkov Province--Farm mechanization--Study and teaching)

KUDRA, G.; BORISOV, U.

Machine operators master new machinery and progressive technology.
Prof.-tekh. obr. 22 no.3:10-11 Mr '65. (MIRA 18:7)

BORISOV, U.

Heirs of battle glory. Prof.-tekh.obr. 22 no.5:17 My '65.

(MIRA 18:5)

SAFONOV, Ivan Stepanovich, zasluzhennyy uchitel' professional'no-tekhnicheskogo obrazovaniya RSFSR; BORISOV, U.; DEMENT'YEV, M.

Enthusiasm and exactingness; thoughts about our work. Prof.-tekhn. obr. 22 no.9:11-14 S '65. (MIRA 18:9)

1. Master professional'no-tekhnicheskogo uchilishcha No.3, Voronezh (for Dement'yev).

BORISOV, V.

Toward the highest living standard in the world. Okhr. truda i
sots. strakh. 4 no.10:1-4 0 '61. (MIRA 14:12)

1. Zaveduyushchiy otdelom Vsesoyuznogo tsentral'nogo soveta
professional'nykh soyuzov po gosudarstvennomu sotsial'nomu
strakhovaniyu.

(Cost and standard of living)

BORISOV, V.

Let's improve the work of social insurance. Okhr. truda i sots.
strakh. 5 no.7:1-3 JI '62. (MIRA 15:7)

1. Zaveduyushchiy otdelom Vsesoyuznogo tsentral'novo soveta
professional'nykh soyuzov.

(INSURANCE, SOCIAL)

(LABOR AND LABORING CLASSES--MEDICAL CARE)

BORISOV, V.

Improved automatic device for filling cans. Mias. ind.
SSSR 31 no.4:13-14 '60. (MIRA 14:7)

1. Rizhskiy zavod "Kompessor".
(Meat, Canned)

BORISOV, V.

The capital of the third all-union coal basin. Mast. ugl. 2 no. 10:16a-d 0 '53.
(MIRA 6:10)
(Karaganda)

~~BORISOV, V.~~
BORISOV, V.

Protective casing on a winch drum. Mast. ugl. 6 no. 10:13-14 0 '57.
(MIRA 10:12)

(Winches)

BORISOV, V.

Let's improve work on the fulfillment of export orders. Vnesh.
torg. 41 no. 2:27-29 '61. (MIRA 14:2)

1. Nachal'nik Upravleniya vneshnikh snosheniy Mosgorsovnarkhoza.
(Moscow--Industries) (Russia--Commerce)

BORISOV, V.

Participate in the building of lightning arresters. IUn.tekh. 5
no.4:2-5 Ap '61. (MIRA 14:3)
(Lightning protection)

BORISOV, V.

The engine, clutch, and transmission in models. Politekh.obuch.
no.12:79-84 D '57. (MIRA 10:12)
(Gas and oil engines) (Clutches (Machinery))
(Automobiles--Transmission devices)

BORISOV, Vl., inzh.

From the ancient pinions to the Novikov worm gears. Nauka i
tekh z mladezh 13 no.11:6-8 N '61.

BORISOV, V. . . inzh.

Alkaline starter batteries for the GAZ-51 motortrucks. Avt. transp.
37 no.2:41-42 F '59. (MIRA 13:1)

1. Gor'kovskiy avtomobil'nyy zavod.
(Motortrucks--Batteries)

BORISOV, V., inzh.

Assembly for a centralized feeding of lubricating oil. Khol.tekh.
37 no.5:53 S-0 '60. (MIRA 13:10)
(Refrigeration and refrigerating machinery)
(Lubrication and lubricants)

BORISOV

BORISOV, V.

Urbakh-Astrakhan petroleum pipeline. Neftianik 2 no.8:33 Ag '57.
(MIRA 10:10)

(Petroleum--Pipelines)

BOGISOV, V.

"Doroga k zvezdam" (The road to the stars), Znanie-Sila,
Vol. 25, No. 4, April, 1950, pp. 7-8
For translation, see Appendix I,

9006302-V

Revd RM-1760 trans. 21 June 56 - in library #1

SOV/25-59-4-32/44

AUTHOR: Borisov, V., Nikolayev, A.

TITLE: An Underwater Ejection Seat (Katapul'ta pod vodoy)

PERIODICAL: Nauka i zhizn', 1959, Nr 4, p 69 (USSR)

ABSTRACT: The author describes experiments carried out in the USA and England with underwater ejection seats.

Card 1/1

GORLOV, O.; BORISOV, V.; KOROTKEYEV, N.I., red.; ATROSHCHENKO, L.Ye.,
tekh.n.red.

[Animals in space] Zhivotnye v kosmose. Moskva, Izd-vo "Znanie,"
1960. 47 p. (Vsesolusnoe obshchestvo po rasprostraneniu politi-
cheskikh i nauchnykh znani. Ser.7, Bibliotekha sel'skogo lektora,
no.19). (MIRA 14:2)

(SPACE BIOLOGY)

GORLOV, O.; BORISOV, V.; KOROT'EYEV, N.I., red.; SAVCHENKO, Ye.V.,
tekh. red.

[Animals in outer space] Zhivotnye v kosmose. Moskva, Izd-
vo "Znanie," 1960. 93 p. (MIRA 15:3)
(Space sciences) (Animals--Habits and behavior of)

BORISOV, V.; GORLOV, O.; POZHIDAYEVA, M.G., red.; ARZUMANOVA, N.A.,
red.; KLYUCHEVA, F.D., tekhn. red.

[Life and outer space] Zhizn' i kosmos. Moskva, Izd-vo
"Sovetskaiia Rossiia," 1961. 195 p. (MIRA 15:2)
(Space science)

BORISOV, V., nauchnyy sotrudnik; SERGEYEV, A., nauchnyy sotrudnik

Biosphere of a space ship cabin. Nauka i zhizn' 29 no.5:39-41
My '62. (MIRA 15:11)

1. Akademiya nauk SSSR. (Space biology)

BORISOV, Vladimir; LANINA, L.I., red.; NAZAROVA, A.S., tekhn. red.

[Radio echo in the outer space] Radioekho v kosmose. Moskva,
Izd-vo "Znanie," 1963. 29 p. (Novoe v zhizni, nauke, tekhnike,
X Seria: Molodezhnaia, no.6) (MIRA 16:4)
(Radio astronomy) (Space ships) (Artificial satellites)

BORISOV, Vladimir; SHUSTOVA, I.B., red.; ATROSHCHENKO, L.Ye.,
tekhn. red.

[The riddle of gravitation] Zagadka tiagoteniia. Moskva,
Izd-vo "Znanie," 1963. 36 p. (Narodnyi universitet kul'-
tury: Estestvennonauchnyi fakul'tet, no.10) (MIRA 16:10)
(Gravitation)

BORISOV, V., starshiy inzh.

Great responsibility. Stroitel' 9 no.10:30 0 '63. (MIRA 16:11)

BORISOV, V.

Fourteenth anniversary of the treaty with Italy. Vnesh.torg.
42 no.12:21-22 '62. (MIRA 15:12)
(Russia—Commerce—Italy)
(Italy—Commerce—Russia)

BORISOV, Viktor; PLESKACHEVSKIY, Mikhail

Trade-union council and regional economic council. Sov.
profsoiuzy 18 no.3:14-16 F '62. (MIRA 15:3)

1. Spetsial'nyy korrespondent zhurnala "Sovetskiye profsoyuzy"
(for Borisov). 2. Sobstvennyy korrespondent gazety "Trud" (for
Pleskachevskiy).
(Azerbaijan--Efficiency, Industrial) (Azerbaijan--Trade unions)

~~BORISOV, V.~~

Use the people's funds in a businesslike manner. Sov. profsoiuzy
18 no.6:22-23 Mr '62. (MIRA 15:3)

1. Zaveduyushchiy otdelom Vsesoyuznogo tsentral'nogo soveta
professional'nykh soyuzov po gosudarstvennomu sotsial'nomu
strakhovaniyu.

(Insurance, Social) (Trade unions)

BORISOV, V.A.

Designing radio-receiver input circuits with a frequency dependent resistor. Elektrosviaz' 12 no.11:29-35 N '58. (MIRA 11:11)
(Radio receivers and reception)

BORISOV, V.A.

Case of free bone transplantation in femoral pseudo-arthrosis with extensive bone defect. Vest. khir. 71
no.3:59 1951. (CIML 20:11)

1. Of the Clinic of Hospital Therapy, Naval Medical Academy.

BORISOV, V.; GEORGIYEV, O.

Beyond the limits of the atmosphere. Nauka i zhizn' 28 no.8:48-50
Ag '61. (MIRA 14:8)

(SPACE MEDICINE)

ARAKELOV, A.S.; BORISOV, V.A.; GAL'PERIN, I.I.; GUREVICH, A.G.; DOVZHUK,
G.T.; PARSHIN, R.N.; SOKOLOVSKIY, S.M.; SELIKHOV, V.L.; SHIPRIN,
D.L.; ETKIN, M.V.; GET'YE, V.A., red.toma; YELIN, V.I., red.toma;
SOLDATOV, K.N., red.toma; SVYATITSKAYA, K.P., vedushchiy red.;
TROFIMOV, A.V., tekhn.red.

[Equipment used in the petroleum industry] Neftianoe oborudovanie;
v shesti tomakh. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-
toplivnoi lit-ry. Vol.1. [Compressors and pumps] Kompresory i
nasosy. 1958. 234 p. (MIRA 12:5)

(Petroleum industry--Equipment and supplies)
(Pumping machinery) (Compressors)

S/032/60/026/012/027/036
B020/B056

AUTHORS: Glazov, V. M. and ~~Borisov, V. A.~~
TITLE: A Device for the Automatic Loading of the Specimen in
Measuring Microhardness
PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 12,
pp. 1420-1422

TEXT: The authors constructed and manufactured a simple device to the apparatus ПМТ-3 (PMT-3), which warrants the uniform reduction or increase of the diamond pyramid during an exactly determined time when loading or unloading the specimen. Fig. 1 shows the apparatus PMT-3 with the device mentioned. On the main stay of the apparatus, a bracket is fastened, to which, in turn, a controllable motor with a reducer is fitted. The transmission of the rotatory motion from the reducer to the indenter is brought about with the aid of a belt transmission; on the axes of the indenter and of the reducer two special gears are fitted (Fig. 2), which warrant the uniform transmission of the motion. The effect produced by the loading method upon the spread of the results during microhardness tests was studied
Card 1/2

A Device for the Automatic Loading of the
Specimen in Measuring Microhardness

S/032/60/026/012/027/036
B020/B056

on pure aluminum of the type AB-0000 (AV-0000) (99.998% Al). The measured results were statistically evaluated; from these data, the diagrams were drawn (Fig. 3). In automatic loading, the spread of data is much less than in the case of manual loading. The table gives the results of comparative studies, which were carried out on the same aluminum single crystals in the case of manual and automatic loading, using different loads, beginning from 0.5 g. B. Ya. Petrenko is mentioned. There are 3 figures, 1 table, and 2 Soviet references.

ASSOCIATION: Institut metallurgii im. A. A. Baykova Akademii nauk SSSR
(Institute of Metallurgy imeni A. A. Baykov of the Academy
of Sciences USSR)

Card 2/2

BORISOV, V.A.

Deformation of cotton cloth in the rolling process. Izv.vys.ucheb.
Zav.; tekhn.tekstil.prom. no.4:73-76 '58. (MIRA 11:11)

1. Moskovskiy tekstil'nyy institut.
(Cotton fabrics)

BORISOV, V.A.

Effect of stretch by the picking machine lap winder on linen
evenness. Izv.vys.ucheb.zav.; tekhn.tekhn.prom. no.6:35-42
'58. (MIRA 12:4)

1. Moskovskiy tekstil'nyy institut.
(Textile machinery) (Linen)

BORISOV, V.A.

Methods of breaking down the lap unevenness into components. Tekst.-
prom. 21 no.5:38-42 My '61. (MIRA 15:1)
(Spinning)

VINICHENKO, N.H.; BORISOV, V.A.; KASHIK, S.A.; PANAYEV, V.A.

Facies conditions governing the formation of Jurassic sediments
in the Irkutsk Coal Basin. Trudy Inst. zem. kory SO AN SSSR
no.15:81-91 '63 (MIRA 17:3)

BORISOV, V.A.; ROZANOV, A.Yu.

New data on the biostratigraphy of ancient formations in the Bateni Range. Dokl. AN SSSR 158 no.2:342-344 S '64.

(MIRA 17:10)

1. Geologicheskoy institut AN SSSR i Krasnoyarskoye geologicheskoye upravleniye. Predstavleno akademikom D.V.Nalivkinym.

BORISOV, V.A.

Features of an automatic control system containing links with
invariant action. Izv. vys. ucheb. zav.; elektromekh. 7 no.6:
724-729 '64. (MIRA 17:7)

17560-65 EAG(j)/EAT(m)/EFF(c)/EFF(n)-2/EPR/EWP(j)/T/EMA(h)/EWA(1) Pc-l/
Pr-l/Ps-l/Pob/Pu-l GG/RM
ACCESSION NR: AP4049784 S/0138/64/000/011/0028/0033

AUTHOR: Kaplunov, M. Ya.; Khozak, V. K.; Kozlov, V. T.; Sobolev, V. S.; Tarasova,
Z. N.; Borisov, V. A.; Karpov, V. L.; Dogadkin, B. A.

TITLE: Thermoradiation vulcanization of tires

SOURCE: Kauchuk i rezina, no. 11, 1964, 28-33

TOPIC TAGS: thermoradiation vulcanization, rubber structure, sulfur vulcanization, tire wear, thermal aging

ABSTRACT: The effectiveness of the method of thermoradiation vulcanization was investigated from the point of view of increasing the quality of the tires. The radiation unit consisted of 18 spent, heat-liberating elements from an atomic reactor. The total activity amounted to 76,000 gram-equivalents of radium. Not more than six 5.60-15 tires could be treated at one time in a cylindrical vat with a hermetically closed cover. The tires had a reduced content of vulcanizing agent; one contained a sensitizer of radiation structuring-hexachlorotoluene. Irradiation was in an argon medium at 0.35 atm pressure. The temperature did not exceed 40C. Radiation doses amounted to 5, 9, 13, and 20 Mrad. The resulting vulcanizate had the optimum relationship of crosslinks of the type -C-C- and

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ACCESSION NR: AP4049784

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-C-5x-C. The destructive processes as well as processes of oxidation and trans-isomerization were less than during sulfur and radiation vulcanization. The relative content of rubber in the "active" portion of the vulcanization network was high. The rubbers had 15% much higher elasticity and strength, as well as increased resistance to thermal aging and wear. Accelerated road tests showed 15-20% greater wear resistance than standard tires. The relationship between structuration and destruction was determined by A. S. Ly'kin, N. D. Stepanov, V. Ye. Lesnichiy and L. M. Dunayev (member of NIFKhI) took part in setting up the apparatus. The design of the apparatus was developed under the guidance of G. N. Lisov (member of NIFKhI). Measurements of radioactivity and dosimetry were carried out by A. G. Vasil'yov and V. Ye. Drozdova (member of NIFKhI). The TsZL MShZ took part in manufacturing the tires." Orig. art. has: 5 figures and 4 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promy'shlennosti (Scientific Research Institute for the Tire Industry); Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. L. Ya. Karpova (Scientific Research Institute for Physics and Chemistry)

SUBMITTED: 00 ENCL: 00 SUB CODE: MT

NO REF SOV: 005 OTHER: 001

Card 2/2

BORISOV, V. A.

BORISOV, V.A. (Leningrad, Krasnoutilovskaya ul., d.9, kv.32)

Primary suture of tendons in infected gunshot wounds; experimental study [with summary in English on pp.159-160]. Vest.khir. 79 no,10: 109-114 0 '57. (MIRA 10:12)

1. Iz gospital'noy khirurgicheskoy kliniki No.2 (zav. - prof. Ye.V. Smirnov) Voenno-meditsinskoy ordena Lenina akademii im. S.M.Kirova. (WOUNDS AND INJURIES, experimental surg., primary suture of tendons in infected gunshot wds. in dogs (Rus))

BORISOV, V.A., inzh.

Modification of inland waterways in the Kama Basin. Rech.transp.
17 no.11:35-37 N '58. (MIRA 11:12)

1. Nachal'nik Kamskogo basseynovogo upravleniya.
(Kama Valley--Waterways)

BORISOV, V. A., Engineer Cand Tech Sci

Dissertation: "Investigation of the Performance
of an Electric-Machine Amplifier with Transversal
Excitation."

3/3/50

Moscow Order of Lenin Power Engineering Institute
V. K. Kolotov.

SO Vecheryaya Moskva
Sum 71

BORISOV, V. A.

"Study of the Performance of an Electric Machine Amplifier With Transverse Excitation in Motor Operation" (Issledovaniye raboty elektromashinnogo usilitelya s Poperechnym vozhdzheniyem v dvigatel'nom rezhime) Elektrichestvo, No 7, 1950.'

Ivanov Power Institute.
Dissertation for Candidate's Degree

BORISOV, V. A.

PA 167T21

USSR/Electricity - Amplifiers, Electric Machine
Aug 50
Electric Motors

"Performance of Electric Machine Amplifiers in Motor Operation," V. A. Borisov, Cand Tech Sci, Ivanovo Power Eng Inst Imeni Lenina

"Elektrichestvo" No 8, pp 21-27

Shows subject amplifiers can be used as motors. Gives equations for mechanical characteristics. Discusses special starting features, influence of reactive field compensation and saturation on mechanical characteristics. Describes

167T21

USSR/Electricity - Amplifiers, Electric Machine (Contd) Aug 50

methods of regulating speed and basic properties of these amplifiers when supplied with additional windings. Analyzes transient processes.

167T21

BORISOV, V. A., Docent

PA 196T31

USSR/Electricity - Servomechanisms
Amplidyne Aug 51

"The Regulation Characteristics of an Amplidyne Operating as a Motor," Docent V. A. Borisov, Cand Tech Sci, Ivanovo Power Eng Inst Imeni Lenin

"Elektrichestvo" No 8, pp 58-64

Concludes that changing the current in the control winding and changing the deg of compensation are the 2 best regulation methods for the amplidyne motor. Concludes that cost and size

196T31

USSR/Electricity - Servomechanisms
(contd) Aug 51

of amplidyne limit the field of application of this motor to powers of about 10-20 kw. Submitted 13 Dec 50.

196T31

USSR/Engineering - Regulation

FD-1749

Card 1/2 : Pub. 10-8/12

Author : Belyayev, I. V. (docent); ~~Borisov, V. A.~~ (docent); Skurikhin, V. I.; Zakharov, M. F.; Krylov, M. A. (all Candidates of Technical Sciences)

Title : Discussion on the article "Development of Automatics and Telemechanics in the Fifth Five-Year Plan"

Periodical : Avtom. i telem., Vol. 16, 203-205, Mar-Apr 1955

Abstract : In a letter by a group of scientists from the Leningrad Electrical Engineering Institute, "Development of Automatics and Telemechanics in the 5th 5-Year Plan," published in No 2, 1953, *ibid.*, a number of important questions were posed: The serial (mass) production of typical automatic and telemeter apparatuses for industry, agriculture, and scientific institutions; expansion and teaching of specialists in the planning, designing, manufacturing, and exploitation of automatic and telemeter equipment; strengthening of connection between individual institutions and other organizations concerned with automatics and telemechanics. Actively engaged at Leningrad Electrical Engineering Institute in these problems are Professors N. K. Bogoroditskiy, D. V. Vasil'yev, S. A. Rinkevich, V. I. Ivanov, and others. Special courses already formed are: Principles of telemechanics, Principles of automatization, Regulation of electric drives, Electrical power stations, networks and systems, Relay protection and automatization of electrical power systems,

FD-1749

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Automatization of industrial processes, electrical equipping of industrial mechanisms, Electrification of enterprises, etc.

Institution : Ivanov Electric Power Institute im. Lenin [Ivanovskiy energeticheskiy institut im. V. I. Lenina]

Submitted : -

BORISOV, V. A. - CAND Tech. Sci, Asst. Prof.

TRANSLATION M-1312, 19 Nov 1956.

BORISOV, V. A.

BORISOV, V.A., inzhener; GONCHARIK, A.P., inzhener.

Automatic lathes used in machining spinning rings. Mashinostroitel'
no.5:20-21 My '57. (MLRA 10:6)

(lathes)

SOV/106-58-11-4/12

AUTHOR: Borisov, V.A.

TITLE: The Design of Radio-Receiver Input Stages Having a Frequency-Dependent Impedance in the Tuned-Circuit (Raschet vkhodnykh tsepey radiopriyemnika s chastotno-zavisimym soprotivleniyem v konture).

PERIODICAL: Elektrosvyaz', 1958, Nr.11, pp.29-35 (USSR)

ABSTRACT: In the majority of input circuits as used in radio receivers, the damping of the circuit and hence its band-width is determined by the losses in the coil and in the aerial. This leads to a variation of bandwidth over the tuning range. The present article analyses the behaviour of a series-tuned circuit which includes a parallel combination of an auxiliary resistance and capacitance which operates as a frequency-dependent impedance whose variable damping compensates for the change in bandwidth which would otherwise occur. The essential circuit is that of Fig.1, while Fig.2 is an equivalent in which the parallel R and C are replaced by equivalent series elements whose values are in (2)

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SOV/106-58-11-4/12

The Design of Radio-Receiver Input Stages Having a Frequency-Dependent Impedance in the Tuned-Circuit.

and (3). Introduction of the correcting impedance leads to two effects: the circuit damping is increased and there is detuning. Eqs.(8) and (9) are respectively the resistance and capacitance to be introduced in terms of frequency, coil inductance and two quantities, d^* and χ (chi). d^* is the frequency-dependent dissipation factor, while χ is the number of times that the introduced reactance is less than the reactance of the coil. The design of the input stage of a superhet receiver is now considered. The relevant parameters are: tuning range, 150 - 415 kc/s; bandwidth, 7000 c/s; permissible non-uniformity in the pass-band, 1.5 db; image rejection, 35 db; permissible variation in gain over the range, 2; aerial parameters, $L_A = 20 \mu\text{H}$, $R_A = 20$ ohms, $C_A = 150-300$ pF; intermediate frequency, 465 kc/s. In order to allow for local oscillator drift and tracking error the actual bandwidth at the long-wave end is taken as 9000 c/s and that at the s.w. end of the range is thus 10 kc/s. If the permissible variation in circuit magnification is not to

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SOV/106-58-11-4/12

The Design of Radio-Receiver Input Stages Having a Frequency-Dependent Impedance in the Tuned-Circuit.

be exceeded then the damping factors for each end of the band are 9.35% and 3.76%. Under these conditions the image rejection is greater than 37 db and the selectivity hardly varies. If the damping at the upper frequency is not reduced, i.e. it is chosen from the condition of obtaining the necessary bandwidth at the worst point, then the image rejection is less than 30 db. The recommended practical circuit is Fig.3 in which the aerial is coupled in through a transformer and the main tuning condenser carries a small trimmer. The main tuning condenser is 510-17 pF, the trimmer is 8-30 pF, the tuning coil is 2.09 mH, the coupling inductance to the aerial is 15.28 mH, the coupling coefficient is 0.16. Table 1 shows that the additional damping to be introduced amounts to 0.0775 at 150 kc/s and 0.0216 at 415 kc/s. Assuming a "swamping" factor of $X=60$, then $R=160$ ohm and $C=1430$ pF. The effective detuning is 1%. Table 2 shows how the bandwidth varies across the tuning range, while Fig.4 plots

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SOV/106-58-11-4/12

The Design of Radio-Receiver Input Stages Having a Frequency-Dependent Impedance in the Tuned-Circuit.

effective circuit magnification, image rejection and damping factor against signal frequency. There are 4 figures, 3 tables and 3 Soviet references.

SUBMITTED: December 24, 1957.

Card 4/4

BORISOV, VSEVOLOD ALEKSANDROVICH, kand.tekhn.nauk, dotsent

Use of an electronic model for studying transient processes in
a d.c. motor. Izv. vys. ucheb. zav.; elektromekh. 4 no.5:7-14
'61. (MIRA 14:7)

1. Kafedra elektrifikatsii promyshlennykh predpriyatiy i ustanovok
Ivanovskogo energeticheskogo instituta.
(Electric motors, Direct current)
(Transients(Electricity))

S/196/61/000/012/021/029
E194/E155

AUTHOR: Borisov, V.A.

TITLE: A direct-current drive with power semiconductor rectifiers and step-wise voltage changes

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, no.12, 1961, 10, abstract 12K 71. (Vestn. elektroprom-sti²no.7, 1961, 45-48)

TEXT: It is proposed to use an auto-transformer or a transformer with several voltage tapings and semiconductor rectifiers to supply a d.c. motor. In the intervals between speed ranges corresponding to steps of armature voltage the speed is controlled by varying the independent field of the motor. The total control range using both methods is of the order of 1:7 - 1:30. The preferred number of voltage steps is 3 - 4. They are altered either by a manual changeover switch or by a controller operating on contactors. An advantage of the system as compared with inductance control consists in the possibility of using a single transformer for different motors; others are

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A direct-current drive with power ... S/196/61/000/012/021/029
E194/E155

the small size and weight of the equipment and the higher power-factor. Disadvantages are: the large amount of apparatus in the power circuit, inadequate speed stability at the low limit of control, and the need for special high-speed protection of the rectifier, which cannot withstand overload. A procedure is given for calculating the voltage steps and the control range, and experimental data are given for a motor of 1 kW at a voltage of 220 V. ✓
4 literature references.

[Abstractor's note: Complete translation.]

Card 2/2

L 17331-63 BDS/EEC-2/EED-2/EEO-2 AFFTC/ASD/ESD-3/APGC Pm-4

ACCESSION NR: AP3004894

S/0120/63/000/004/0083/0085 69
67

AUTHOR: Borisov, V. A.; Ostreyko, G. N.; Panasyuk, V. S.; Yudin, L. I.

TITLE: High-power pulsed modulators for high-frequency amplifiers and oscillators without long-line shapers

SOURCE: Pribery**i* tekhnika eksperimenta, no. 4, 1963, 83-85

TOPIC TAGS: modulator, pulsed modulator, h-f amplifier, h-f oscillator, pulse shaper, long transmission line

ABSTRACT: Two types of pulsed modulators intended for h-f equipment in the supply channel of particle accelerators are described. The modulators do not contain pulse-shaping long lines and, hence, appear to eliminate many drawbacks associated with such lines. Instead, a partial discharge of a capacitor is used. Switching is performed by thyratrons. One circuit is designed for a power amplifier 1 Mw with a pulse duration of 200 microsec and a repetition rate of 5 cps;

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L 17331-63

ACCESSION NR: AP3004894

2

another circuit, 2 Mw, 200 microsec, and 10 cps. "The authors are thankful to V. M. Petrov, who made a number of valuable suggestions for improving both modulator circuits, and also to I. A. Samokhin for his part in calculating and aligning the second circuit." Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 01Sep62

DATE ACQ: 28Aug63

ENCL: 00

SUB CODE: NS

NO REF SOV: 000

OTHER: 000

Card 2/2

BORISOV, V.A.; OSTREYKO, G.N.; PANASYUK, V.S.; YUDIN, L.I.

Powerful pulse modulators of high-frequency amplifiers and self-oscillators without pulse shaping long lines. Prib. i tekh. eksp. 8 no.4:83-85 J1-Ag '63. (MIRA 16:12)

BORISOV, V.A.

Some characteristics of the evaluation of regional under-
ground water resources of hydrogeological massifs. Uzb.
geol. zhur. 8 no.6:65-71 '64. (MIRA 18:11)

1. Institut geologii i inzhernoy geologii Gosudarstvennogo
geologicheskogo komiteta SSSR.

Name : BORISOV, V. A.
Dissertation : Wear resistance of asphalt concretes
Degree : Cand Tech Sci
Defended At : Min Higher Education USSR, Saratov
Highway Inst imeni V. M. Molotov
Publication Date, Place : 1956, Saratov
Source : Knizhnaya Letopis' No 5, 1957

BORISOV, V.A., kand.tekhn.nauk; KUZNETSOV, A. Ya., inzh.

Improving pavements made of marlaceous materials. Avt. dor. 23
no.4:10-11 Ap '60. (MIRA 13:6)

(Marl) (Pavement)

BORISOV, V.A.

Improve the organization of operations in constructing roads
with the aid of workers and employees. Avt. dor. 23 no.8:4-5
Ag '60. (MIRA 13:8)

(Road construction)

BORISOV, V.A., kand.tekhn.nauk; SHABARCHIN, A.P., inzh.

Effective method for evaluating the agglutination of cold
asphalt-concrete mixes. Avt.dor. 25 no.7:17-18 JI '62.
(MIRA 15:8)

(Asphalt concrete--Testing)

BORISOV, V.A., kand.tekhn.nauk; IGNAT'YEVA, V.M., inzh.

Once more on the pavement stabilization and the density standards for asphalt concrete. Avt.dor. 28 no.11:24-26 N '65.

(MIRA 18:11)

ZAYTSEV, Vasilii Vasil'yevich; BORISOV, Vasilii Aleksandrovich

[Collective farm economy on the upswing] Ekonomika kolkhoza na
pod'eme. Moskva, Gos. izd-vo sel'khoz, lit-ry, 1956. (MLRA 10:4)
(Chuvashia--Collective farms)

BORISOV, V.A.

Plenum of the Commission on the Conservation of Nature of the
Academy of Sciences of the U.S.S.R. Zool.zhur. 35 no.10:1587-
1599 0. '56. (MIRA 10:1)
(Natural resources)

POLOVENKO, I.S., kand. ekon. nauk.; SHIMKO, N.I., agronom-ekonomist,;
ARTYKOV, A., BORISOV, Y.A., GONCHAROV, A.I., KLOTS, Ye.A., SPERANSKIY,
V.Z., SHAPIRO, L.L.; KALASHNIKOVA, V.S., red.; BALLOD, A.I., tekhn. red.

[Experience in introducing a new procedure in planning] Opyt.
vnedrenia novogo poriadka planirovaniia. Moskva, Gos. izd-vo
sel'khoz. lit-ry, 1958. 308 p. (MIRA 11:11)
(Agriculture)

ZAYTSEV, V.V.; BORISOV, V.A.

[Long-range plan for collective farms] Perspektivnyi plan
kolkhoza. Moskva, Gos.planizdat, 1959. 222 p.

(MIRA 13:5)

(Collective farms)

L 31820-66 EWP(e)/EWT(m)/EWP(w)/I/EWP(t)/ETI IJP(c) JD/HW/JG

ACC NR: AP6019500 (N) SOURCE CODE: UR/0129/66/000/006/0012/0016

AUTHOR: Borisov, V. A.; Rakhshadt, A. G.; Shpitsberg, A. L.

58
51
B

ORG: MVTU im. Bauman

v1 v1

TITLE: Properties of additionally alloyed nickel-beryllium alloys

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 6, 1966, 12-16

TOPIC TAGS: nickel alloy, beryllium containing alloy, molybdenum containing alloy, boron containing alloy, tungsten containing alloy, vanadium containing alloy, cobalt containing alloy, spring alloy, alloy heat treatment, alloy property

ABSTRACT: EI996 nickel-base alloy with 2% beryllium (1) is used to manufacture current-carrying contact springs and elastic elements working at temperatures of 250C or over. In a search for materials with better structural stability, electric conductivity, and plasticity, a series of nickel-beryllium alloys additionally alloyed with 5.6% Mo (2), 5.6% Mo + 0.0025% B (3), 1.8% W (4), 1.7% W + 0.2% V (5), 0.95% Co (6), 2.6% Co (7), 4.8% Co (8), or 4.9% Co (9) were tested in the form of wires 1.5 mm in diameter. Water quenching from 1100C and tempering at 550C was found to be the optimum heat treatment for all the alloys tested. Alloys (3) and (5) showed the best combination of mechanical properties: a hardness HB of 540 and 520, elastic limit 52 and 47.5 kg/mm², electric resistivity 0.397 and 0.251 ohm·mm²/m, respectively, compared to HB 480, elastic limit 27 kg/mm², and electric resistivity 0.298 ohm·mm²/m

Card 1/2

UDC: 669.15-194:669.25'72

SHAPOSHNIKOV, L.K.; BORISOV, V.A.

Mirar measures of the Soviet state for the conservation of nature.
Okhr. prir. i zapov. delo v SSSR no.3:93-98 '58. (MIRA 11:6)
(Natural resources)

L 31820-66

ACC NR: AP6019500

7

for alloy (1). The respective tensile strength and elongation at 20C and 450C of alloy (3) were 197 kg/mm² and 11% and 167 kg/mm² and 8.1%; those of alloy (5) were 190 kg/mm² and 3%, and 170 kg/mm² and 1.5%; and those of alloy (1) were 170 kg/mm² and 3.5%, and 143 kg/mm² and 4.5%. Molybdenum and boron produced intensive strengthening and a reduced rate of alloy softening at tempering temperatures. Molybdenum also lowered the Curie point. Alloys (3) and (5) are paramagnetic at temperatures as low as 20C; these alloys can be used for nonmagnetic elastic elements in which high strength and structural stability are required. Tungsten sharply increased the resistance to small plastic deformation and had no effect on strengthening rate, but delayed softening at prolonged holding at tempering temperatures as high as 550C. Tungsten and vanadium in alloy (5) ensure the highest hardness, especially after quenching from 1150C and tempering at 550C for 0.5—1 hr: This alloy had a high elastic limit and structural stability, close to those of alloy with molybdenum and boron (3). Addition of 0.95—0.99% Co (6) increases somewhat the hardness, structural stability, and increases significantly the elastic limit. The structural stability of alloy with 4.8% Co (8) is lower than that of alloys with molybdenum, tungsten, and vanadium, but the electric conductivity of cobalt-containing alloys is higher than that of other tested alloys. Orig. art. has: 2 figures and 3 tables. [AZ]

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 004/ ATD PRESS: 5128

Card 2/2

AJ

NARZIKULOV, M.N., otv. red.; BORISOV, V.A., red.; OVCHINNIKOV,
P.N., red.; POKROVSKIY, V.S., red.; SAPOZHNIKOV, G.N.,
red.; SHAPOSHNIKOV, L.K., red.; VINOGRADSKAYA, S.N.,
red.izd-va; GELLER, S.P., tekhn. red.

[Transactions of the All-Union Congress on the Conserva-
tion of Nature] Trudy Vsesoiuznogo soveshchaniia po okh-
rane prirody. 3d. Dushanbe, ~~Missiia~~ po okhrane prirody
AN Tadzhik.SSR, 1961. 128 p. (MIRA 17:3)

1. Vsesoyuznoye soveshchaniye po okhrane prirody. 3d,
Dushanbe, 1960.

I. 09963-67 EWP(m)/EWP(t)/ETI IJP(c) JD/IRW/WB
ACC NR: AP6035721 SOURCE CODE: UR/0413/66/000/019/0083/0083

INVENTOR: Shpitsberg, A. L.; Zhuchin, V. N.; Dobrotin, V. D.; Fadeyeva, I. V.;
Borisov, V. A. 54

ORG: none

TITLE: Corrosion-resistant nickel-base alloy. Class 40, No. 186691 14

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 83

TOPIC TAGS: corrosion resistant alloy, nickel base alloy, chromium containing alloy, tungsten containing alloy, cobalt containing alloy, aluminum containing alloy, titanium containing alloy, boron containing alloy, niobium containing alloy, vanadium containing alloy, copper containing alloy, zirconium containing alloy

ABSTRACT: This Author Certificate introduces a corrosion-resistant nickel-base alloy containing chromium, tungsten, cobalt, aluminum, titanium and boron. To improve its physicomechanical and technological properties, the alloy chemical composition is set as follows: 16—25% chromium, 6—16% tungsten, 4.5—10.0% cobalt, 0.8—2.5% aluminum, 2—5% titanium, and 0.008—0.25% boron. A variant is additionally alloyed with niobium, vanadium, copper and zirconium at a total content of up to 6%.

SUB CODE: li/ SUBM DATE: 17Feb65/ ATD PRESS: 5105

BORISOV, V. A.

"The Temperature-Light Schedule for Raising Chicks." Cand Agr Sci, Sci-Res Inst
of Poultry Husbandry, 5 Feb 55. (VM, 28 Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational
Institutions (13)

SO: Sum. No. 598, 29 Jul 55

BORISOV, Viktor Aleksandrovich; DOLGORUKOVA, Ol'ga Nikolayevna

~~[Progressive poultry farms]~~ ~~Peredovye ptitsefermy~~. [Novosibirsk]
Novosibirskoe kn-vo, 1956. 37 p. (MLRA 10:3)
(Poultry)

BORISOV, V.A., kand. sel'skokhozyaystvennykh nauk.

Year-round laying geese. Zhivotnovodstvo 20 no.4:80-82 Ap '58.
(Geese) (Eggs--Production) (MIRA 11:3)

BIRYUKOV, A.V., inzh.; POBARNYEV, A.I., inzh.; KHODNEV, V.V., inzh.;
BORISOV, V.A., inzh.; VOLYNTSEV, F.I., inzh.; KATS, Z.D., inzh.

Contactless transistorized protection system for 6-10 kv.
distribution units. Elektrotehnika 36 no.4:7-11 Ap '65.
(MIRA 18:5)

VARVARIN, G.B.; ZHAVORONKOV, V.Ya.; FILIPPOV, Ye.M.; BORISOV, V.B.;
MELIK-STEPANOV, Yu.G.

Determining the density of the flow of a mineral suspension during
ore dressing on shaking troughs, using a source of gamma rays.
TSvet. met. 36 no.7:7-10 J1 '63. (MIRA 16:8)
(Ore dressing) (Suspensions (Chemistry)--Density)
(Gamma rays--Industrial applications)

BORISOV, Vladimir Borisovich; SHUSTOVA, I.B., red.

[Standards and the unit system] Etalony i sistemy edinits.
Moskva, Izd-vo "Znanie," 1964. 57 p. (Narodnyi universi-
tet: Estestvennonauchnyi fakul'tet, no.8) (MIRA 17 9)

BORISOV, Vladimir Borisovich, kand. fiz.-matem. nauk; SHUSTOVA,
I.B., red.

[Fundamentals of thermodynamics and statistical physics]
Osnovy termodinamiki i statisticheskoi fiziki. Moskva,
Izd-vo "Znanie," 1965. 47 p. (Narodnyi universitet;
Estestvenno-nauchnyi fakul'tet, no.9) (MIRA 18:8)

BORISOV, V.D., aspirant

Some serologic data on Q fever. Zdrav.Kazakh. 17 no.2:
35-36 '57. (MIRA 12:6)

1. Iz kafedry epidemiologii Kazakhskogo gosudarstvennogo
meditsinskogo instituta im. V.M.Molotova.
(ALMA-ATA--Q FEVER)

EXCEPPTA MEDICA Sec 17 Vol 5/10 Public Health Oct 59

2891. Q-FEVER IN EASTERN DISTRICTS OF KAZAKH (Russian text) - Borisov
V. D. Dept of Epidemiol., Kazakh St. Med. Inst., Kazakh, USSR - ZDRA-
VOOKHR. KAZ. 1958, 18/9 (28-32) Tables 3

The incidence of Q-fever in man is strictly connected with the prevalence of the disease among agricultural animals. A serological survey of 332 persons for complement-fixing antibodies established the prevalence of Q-fever in the East-Kazakhstan district with 22% positive tests in people having contact with cattle as compared with 8% positive reactions in meat-packers. Among 308 sera from cows, complement fixing antibodies (for R. burneti) were found in 9.7%.
Anigstein - Galveston, Tex. (L, 17)

BORISOV, V. D., KARAKULOV, I. K., AMANSEULOV, S.A.

"Q-fever in Kazakhstan." p. 136

Desyatoye Soveshchaniye po parazitologicheskim problemam i prirodnouchagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

BORISOV, V.D.; KARAKULOV, I.K.; AMANZHULOV, S.A.

Present and future conditions for the study of Q fever in Kazakhstan.
Zhur.mikrobiol.epid.i immun. 30 no.8:67-72 Ag '59. (MIRA 12:11)

1. Iz Kazakhskogo gosudarstvennogo meditsinskogo instituta i Instituta krayevoy patologii AN Kazakhskoy SSR.
(Q FEVER epidemiol.)

BORISOV, V. D.

Cand Med Sci - (diss) "Epidemiology of Ku-fever in Kazakhstan."
Alma-Ata, 1961. 16 pp; (Joint Academic Council of the Institutes of Physiology, Kray Pathology, Clinical and Experimental Surgery of the Academy of Sciences Kazakh SSR); 200 copies; price not given; (KL, 7-61 sup, 257); bibliography on pp 15-16 (11 entries)

POSTRICHEVA, O.V.; AMANZHULOV, S.A.; BORISOV, V.D.; KARAKULOV, I.K.

Spread of Q fever in the Virgin Territory. Zdrav. Kazakh. 21 no.8:
50-54 '61. (MIRA 14:9)

1. Iz Instituta krayevoy patologii AN Kazakhskoy SSR i kafedry
epidemiologii Kazakhskogo meditsinskogo instituta.
(VIRGIN TERRITORY—Q FEVER)

BORISOV, V.D.

Attachment for machining hyperboloid gear wheel teeth with
channeled engagement. Stan. i instr. 36 no. 12:21-23 D '65.
(MIRA 19:1)

L 04543-67 EWT(m)/T FDN/WE/GD

ACC NR: AT6015200

(A,N)

SOURCE CODE: UR/0000/66/000/000/0096/0098

AUTHOR: Borisov, V. D.; Gogitidze, L. D.; Logvinyuk, V. P.; Makarenkov, V. V.; Melyshev, V. V.; Panchenkov, G. M.; Yakovlevskiy, V. V.

14
B11

ORG: none

TITLE: Apparatus for determining the amount of gas dissolved in a liquid

SOURCE: Metody otsenki ekspluatatsionnykh svoystv reaktivnykh topliv i smazochnykh materialov (Methods for the performance evaluation of jet propellents and lubricants). Moscow, Izd-vo Mashinostroyeniye, 1966, 96-98

TOPIC TAGS: gas analysis, gas analyzer, solubility, petroleum fuel, LIQUID PROPERTY

ABSTRACT: A simple apparatus for determining the amount of gas dissolved in a liquid was designed so that it could be used as a gas pipette for VTI, Orset or other gas analyzers. A special feature of the apparatus (see Fig. 1) is the use of an elastic membrane to equalize the pressure between the measuring burette and the surrounding space, and measurement of the volume of liberated gases at different pressures and temperatures. A deviation of 3.5% was found in the measurement of gases separated from a hydrocarbon fuel. Water and other liquids may be used in the determinations. Orig. art. has: 1 table and 1 figure.

UDC: 662.753.22:629.13.001.4

PLSAS-67

ACC NR: AT6015200

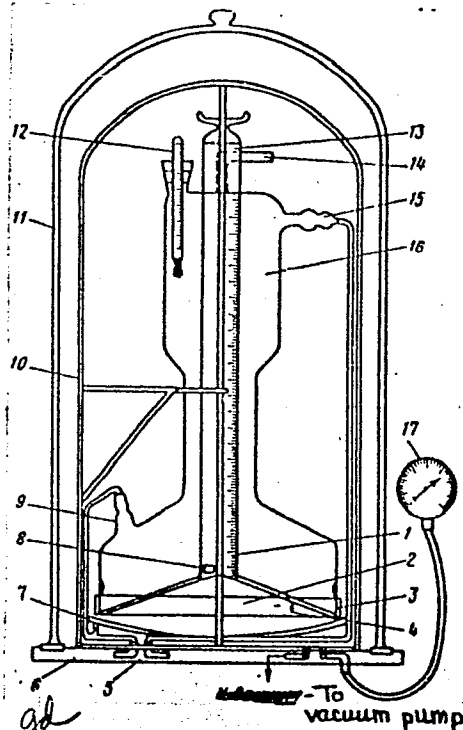


Fig. 1. Diagram of apparatus for determining amount of gas dissolved in liquid: 1--measuring burette, 2--conical funnel, 3--clamp, 4--elastic membrane (double line designates cross section of funnel 2 with membrane lying on it), 5--connector for feeding thermostatic liquid or gas to pressure chamber, 6--base, 7--lower heat shield, 8--activator, 9--connector for feeding gas or liquid, 10--housing, 11--vacuum jar, 12--thermometer, 13--ground glass stopper, 14--channel, 15--connector for withdrawing gas or liquid, 16--housing, 17--vacuum gage.

SUB CODE: 21, 14/ SUBM DATE: 10Dec65

Card 2/2 *gd*

L 33659-66 EWT(1)/EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) JD/WW/JG

ACC NR: AP6014081

SOURCE CODE: UR/0294/66/004/002/0293/0295

AUTHOR: Pigal'skaya, L. A.; Filippov, L. P.; Borisov, V. D.

ORG: Moscow State University im. M. V. Lomonosov (Moscovskiy gosudarstvennyy universitet)

TITLE: The heat conductivity of tungsten at high temperatures

SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 2, 1966, 293-295

TOPIC TAGS: heat conductivity, tungsten, high temperature metal

ABSTRACT: A tungsten rod with a diameter of 10 mm and a length of 80 mm was used for the experiments. Control measurements were made with a rod of smaller length-- 60 mm. The sample (a forged ingot) contained 99.95% tungsten, with a 0.035% molybdenum impurity; its density at room temperature was 19.17 gram/cm². At a temperature of 2000°K the experimental data were approximately 11% higher than data given in the literature. A table gives results of measurements of thermal diffusivity which were made to determine heat conductivity. A second table gives values of the heat conductivity of tungsten determined experimentally with the data of other authors. Measurements, made in a comparatively narrow temperature interval, yielded values for the heat

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UDC: 546.78:536.2.023

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B