

TSVETKOV, E., inzh.; DUBROVIN, M., inzh.; SUCHKOV, L., inzh.

Effectiveness of delivering adequate coal supplies for a year's  
consumption. Rech. transp. 23 no.1:7-8 Ja '64. (MIRA 18:11)

*DUBROVIN M.M.*

SANIN, A.A.; BLOKH, Ya.L.; DUBROVIN, M.M.

Prolonging the life of self-quenching counters using radio engineering methods. Prib. i tekhn. eksp. no. 1:58-59 Ja-F '57.  
(Geiger-Muller counters) (Nuclear counters) (MIRA 10:6)

S/058/61/000/010/020/100  
A001/A101

AUTHORS: Babayan, Kh.P., Grigorov, N.L., Dubrovin, M.M., Mishchenko, L.G.,  
Murzin, V.S., Sarycheva, L.I., Sobinyakov, V.A., Rappoport, I.D.

TITLE: Investigation of interaction of  $10^{11}$  -  $10^{12}$  ev energetic particles  
with nuclei of iron and graphite

PERIODICAL: Referativnyy zhurnal. Fizika, no. 10, 1961, 96-97, abstract 10B506  
("Tr. Mezhdunar. konferentsii po kosmich. lucham, 1959, v. 1", Mos-  
cow, AN SSSR, 1960, 176 - 182)

TEXT: The authors present the results of an investigation, carried out by  
means of an ionization calorimeter, of interactions of  $10^{11}$ - $10^{12}$  ev particles  
with nuclei of iron and graphite on the Aragats mountain (3,200 m above sea level).  
It is shown that: 1) Coefficient of inelasticity of interaction of particles  
with energy  $E_0 \geq 2 \times 10^{11}$  ev with iron-nuclei  $\alpha_{in} = 1.0 \pm 0.09$ ; 2) In the inter-  
action with the iron nucleus of a  $2 \times 10^{11}$  ev nucleon, one energetically outstand-  
ing particle is produced with average energy of  $\sim E_0$ , probability of this occur-  
rence being close to unity; most probable this particle is a  $\pi$ -meson; 3) The  
mean coefficient of inelasticity of interactions of particles with  $E_0 \geq 10^{11}$  ev

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Investigation of interaction ...

S/058/61/000/010/020/100  
A001/A101

with carbon nuclei  $\bar{\alpha}_c \leq 0.5 \bar{\alpha}_{Fe}$ ; 4) the experimental data obtained for  $\bar{\alpha}_{Fe}$  and  $\bar{\alpha}_c/\alpha_{Fe} \leq 0.5$  rule out the possibility of consecutive collisions with individual nucleons of the nucleus (or small-groups of nucleons) at interactions of particles with energies  $\geq 10^{11}$  ev with heavy nuclei; 5) in the energy range of nucleons  $10^{10} - 10^{11}$  ev the interaction with heavy nuclei changes its nature.

L. Dorman

[Abstracter's note: Complete translation]

Card 2/2

DUBROVIN, M. M.

STUDY OF INTERACTION PROCESSES OF  $10^{11}$ - $10^{12}$  eV  
PARTICLES WITH IRON AND GRAPHITE NUCLEI

Kh. P. Babayan, N. L. Grigorov, M. M. Dubrovin  
V. S. Murzin, V. A. Sobiryakov, and I. D. Rapoport

1. The use of the "ionization calorimeter" which comprises a large number of ionization chambers made it possible to investigate the interaction of particles of known energy.

2. Studies carried out in 1957 at 3860 m above sea level and in 1958-59 at 3200 m above sea level have produced results that are in good agreement. From these results, the following conclusions may be drawn:

a) when interacting with Fe nuclei,  $10^{11}$ - $10^{12}$  eV particles lose, as a rule, nearly all their energy in the production of mesons:

b) there is a large probability that as a result of collision with a nucleus there are produced a small number of particles, the total energy of which amounts to  $\sim 50\%$  of the energy of the primary particle (in the majority of cases these particles are not nucleons):

c) big fluctuations are observed in energy transfer to  $\pi^+$ -mesons.

Report presented at the International Cosmic Ray Conference, Moscow, 6-11 July 1959.

87469

3. 1800 (1041, 1062) 1168 )  
9.9700

S/169/66/000/012/007/010  
A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 12, p. 219, # 16270

AUTHORS: Blokh, Ya. L., Vernov, S. N., Dorman, L. I., Dubrovin, M. M.

TITLE: Preliminary Results of an Investigation of the Underground Variations of Cosmic Rays

PERIODICAL: V sb.: Variatsii kosmich. luchey pod zemley, na urovne morya i v stratosfere. No. 1, Moscow, AN SSSR, 1959, pp. 37-47

TEXT: The variations of the cosmic ray intensity are investigated on the basis of data obtained from a counter telescope of triple coincidences, which was located under the earth's surface at the depth of 40 m of water equivalent. By the simple-correlation method the value of the barometric coefficient  $\beta = (0.021 \pm 0.008) \%$ /mb was obtained. The diurnal variation of the underground intensity amounts to about 0.05%. By averaging the data it is shown that the average effect at the depth of 40 m of water equivalent amounts to 0.3% during 11 events of decreases of the Forbush type. The investigation of the disturbed diurnal variations in the cosmic ray intensity was also carried out. N. K.  
Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

37286

S/169/62/000/004/071/103  
D218/D302

3.2410 (2205, 2705, 2805)

AUTHORS: Blokh, Ya.L., Dorman, L.I., and Dubrovin, M.M.

TITLE: Meteorological effects of cosmic rays under the earth's surface

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 4, 1962, 13, abstract 4G70 (V. sb. Kosmicheskiye luchy, no. 3, M., AN SSSR, 1961, 166-169)

TEXT: A study is reported of meteorological effects in the  $\mu$ -meson component of cosmic rays, based on underground recordings in Moscow (40 m) and Yakutsk (60 m) in 1957 - 1958. The triple-correlation method was used to determine the partial and total correlation and regression coefficients  $\alpha$  and  $\beta$  between the observed cosmic-ray intensity variations, the barometric pressure and the temperature of the atmosphere, ( $\beta$  is the barometric coefficient and  $\alpha$  is the temperature coefficient representing atmospheric temperature variations up to heights of 12 - 20 km). Although the values of  $\alpha$  and  $\beta$  obtained for separate months exhibit a large spread, their average values are quite reliable and are in good agreement with the theoretical  
Card 1/2

*DUBROVIN N.*

ASTRETSOV, V.; KOROVIN, V.; DUBROVIN, N.

Readers comments on S.I. Shcherbakov's book "Milling wheat and rye." Reviewed by E.Lykov, V.Astretsov, V.Korovin, N.Dubrovin.  
Muz.-elev.prom. 20 no.8:30-31 Ag '54. (KLEA 7:9)  
(Wheat milling) (Rye milling) (Shcherbakov, S.I.)



DUBROVIN, N., kantr-admiral

It was in the fleet of the Far North. Tyl. 1 snab. Sov. Voor. Sil  
21 no.6:53-57 Je '61. (MIRA 14:8)  
(Murmansk--World War, 1939-1945)

~~DUBROVIN, Nikolai Fedorovich~~

DUBROVIN, Nikolai Fedorovich. Nikolai Mikhailovich Frzheval'ski ... Biograficheski ocherk.  
3 4 portretami N.M., 3 avtografami, 2 fototipliami i otchetnoiu kartoiu chetyrekh  
ego puteshestvii. S.-Peterburg, 1870. 2 p. i., ix, ii, 602 p. viiiip.

DLC: DS785.F9D

SO: LC, Soviet Geography, Part I, 1951, uncl.

DUBROVIN, N.G.

Characteristics of the process of artificial drying of alfalfa.  
Sel'khozmaschina no.4:19-21 Ap '57. (MLRA 10:4)  
(Alfalfa--Drying)

DUBROVIN, N.G., Cand Agr Sci -- (diss) "Artificial  
drying of grass." Khar'kov, 1958, 20 pp (Min of  
Agr USSR. Khar'kov Order of Labor Red Banner Agr  
Inst im V.V. Dokuchayev) 150 copies (KL, 29-58, 134)

- 86 -

DUBROVIN, N.G., kand.sel'skokhoyaystvennykh nauk

Preliminary preparations for the artificial drying of alfalfa in layers. Mekh. i elek. sots. sel'khoz. 19 no.2:19-22 '61.

(MIRA 14:3)

1. Nauchno-issledovatel'skiy institut zhivotnovodstva Lesostepi i Poles'ya USSR.

(Alfalfa--Drying)

**DUHOVIN, N.G.**

Characteristics of the artificial drying of green fodder in the  
bagasse dryers of sugar factories. Sakh. profi. 37 no.8:49-52  
Ag '63. (MIRA 16:8)

1. Khar'kovskiy zooveterinarnyy institut.  
(Feeds--Drying)

DUBROVIN, N.

Vazhneishie rezervy povysheniia rentabelnosti gruzovykh perevozok. /Most important resources for increasing the profits from freight transportation./ (Zhel-dor. transport, 1946, no. 11-12, p. 19-28.)

"Discusses post-war freight rate problems (p. 26-28). Table (p. 27) shows rates for 5 commodity groups, by length of haul."

DLC: HE7.25

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

DENISOV, V.N.; DUBROVIN, M.N., redaktor; GALAKTIONOVA, Ye.N., tekhnicheskiy  
redaktor

[Rotor snow removers; manual for operators] Rotornye snegoochistiteli;  
posobie dlia voditelia. Moskva, Izd-vo dorozhno-tekhn. lit-ry, 1952.  
98 p. (MLRA 9:1)

(Snowplows)



1. DUBROVIN, N.
2. USSR (600)
4. Railroads
7. About the railroad statutes. Za ekon. mat. No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

DUBROVIN, N.

New regulations on improvements and inventions. Avt.transp. 32 no.6:  
37 Je '54. (MLRA 7:9)  
(Transportation, Automotive) (Efficiency, Industrial)

DUBROVIN, Nikolay Nikolayevich; FILATOV, M.P., redaktor; KOGAN, F.L.  
~~tsennitskiy redaktor.~~

[Manual on improvement and invention in motor transportation]  
Posobie po ratsionalizatsii i isobretatel'stvu na avtotrans-  
porte. Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1955.  
107 p. (MLRA 8:8)  
(Transportation, Automotive)

NOGID, L.M., doktor tekhn.nauk; DUBROVIN, O.V., inzh.

Frictional resistance of icebreakers. Frictional resistance  
of icebreakers. Sudostroenie 28 no.6:10-14 Je '62.

(MIRA 15:6)

(Frictional resistance (Hydrodynamics))

(Ice-breaking vessels)

**VOYTKUNSKIY, Ya.I.; DUBROVIN, O.V.**

Determining the towing efficiency of single-screw coasters.  
Trudy LKI no.38:27-42 '62. (MIRA 16:7)

1. Kafedra gidromekhaniki Leningradskogo korablestroitel'nogo  
instituta (for Voytkunskiy). 2. Kafedra teorii korablya  
Leningradskogo korablestroitel'nogo instituta (for Dubrovin).  
(Coastwise navigation) (Towing)

DUBROVIN, P. slesar'-mekhanik (Kirovskaya obl.)

Semiautomatic machine for making chessmen. Prom.koop. 12 no.11:13  
N '58. (NIRA 11:11)

1. Artel' invalidov "Sila."  
(Chessmen)

**DUBROVIN, P.A., starshiy prepedavatel'**

Drainage of mines in the Karaganda Basin. Izv. vys. ucheb.  
sav.; ger. shur. no.12:103-107 '61. (MIRA 16:7)

1. Karagandinskiy politekhnicheskiy institut. Rekomendovana  
kafedrey gerney mekhaniki.  
(Karaganda Basin—Mine drainage)

DUBROVIN, P.A., inzh.

Selecting efficient means of draining Karaganda Basin m<sup>ns</sup> with a  
depth of more than 300m. Izv.vys.uchob.zav.;gor.zhur. 7 no.6:93-96  
'64. (MIRA 17:12)

1. Karagandinskiy politekhnicheskiy institut. Rekomendovana kafedroy  
gornoy mekhaniki.



DUBROVIN, P.A., inzh.; RYBAKOV, I.P., inzh.

Centralization of water drainage in Karaganda Basin coal mines.  
Izv. Vys. ucheb. zav.; gor. zhur. 7 no.11:118-121 '64.

(MIRA 18:3)

1. Karagandinskiy politekhnicheskiy institut. Rekomendovana  
kafedroy gornoy mekhaniki.

DUBROVIN, P.A., inzh.

Centralisation of mine drainage. Izv.vys.ucheb.zav.; gor.zhur.  
7 no.12:100-103 '64. (MIRA 18:2)

1. Karagandinskiy politekhnicheskiy institut. Rekomendovana  
kafedroy gornoy mekhaniki.

DUBROVIN, P.I. [Deceased]

Agglomeration of cities; genesis, economics, morphology. Vop.  
geog. no. 45:27-36 '59. (MIRA 12:5)  
(Cities and towns--Growth)

KALARDENKIN, N.P.; SHUVAYEV, A.S.; PAIKIN, V.I.; NIZKOVA, A.S.; TARABAN'KO,  
P.I.; KHOLMSKIY, R.V.; CHIPP, L.V.; DOBASHIN, O.S.; FLEBYVA, L.I.;  
MAKSI'NOV, N.H.; RAFIYENKO, I.I.; PAL'NOV, I.Y.; UVAROV, I.H.;  
DUEROVIN, P.Ye.; LINGACHEVA, O.A.; UVAROVA, I.I.

Conference of the Teaching Staff and Students of the Moscow  
Geological Prospecting Institute. Izv. vys. ucheb. zav.; geol.  
i razv. 6 no.12:143-148 D '63 (MIRA 18:2)

KAMARDINKIN, N.P.; SHUVAYEV, A.S.; PALKIN, V.I.; NEMKOVA, A.S.; TARABAN'KO,  
P.I.; KHOLMSKIY, R.V.; GNIPP, L.V.; DOBASHIN, G.S.; FLEROVA, L.I.;  
MAKSIMOV, H.M.; RAFIYENKO, I.I.; PAL'MOV, I.I.; UVAROV, I.M.;  
DUBROVIN, P.Ye.; LIKHACHEVA, O.A.; UVAROVA, I.I.

Conference of the Teaching Staff and Students of the Moscow  
Geological Prospecting Institute. Izv. vyzhucheb.zav.; geol. 1  
razv. 6 no.12:143-148 D '63. (MIRA 18:2)

DUBROVIN, B.; YALIN, M.

Gift from English miners. Sov. shakh. ll no.10:35 0 '62.  
(MIRA 15:9)

(Visitors, British) (Phonorecords)

STEPANOV, A.,; dispatcher; ~~DUBROVIN, Y.~~

Workers of the Kisner Grain Procurement Station have assumed  
the name of the Group of the Communist Labor. Muk.-elev.  
prom. 26 no.2:5-6 F '60. (MIRA 13:6)

1. Elevatorno-skladskiy otdel Udmurtskogo upravleniya  
khleboproduktov (for Stepanov). 2. Kachal'nik otdela ucheta  
Udmurtskogo upravleniya khleboproduktov (for Dubrovin).  
(Kisner—Grain elevators)

DUBROVIN, V. (Rostov-na-Donu)

In contact with scientists. Vest.prom.i khud.promys. 2 no.10:  
27-28 0 '61. (MIRA 14:11)

(Research, Industrial)



KOTEL'NIKOV, V., akad.; SHAKHOVSKA, A.; REHIGA, O.; SHAROVIN, Y.

Radio beams investigate the planets. Priroda Bulg 13 no.6:  
78-79 N-D '64.

*Dubrovin, V.F.*

81995

S/120/60/000/03/032/055

E041/E521

*9.6000*

AUTHORS: Mirovitskiy, D. I. and Dubrovin, V. F.

TITLE: Free-Space Measurement of Small Samples of Dielectric Materials at Decimetre Wavelengths

PERIODICAL: Pribery i tekhnika eksperimenta, 1960, No 3,  
pp 109-114

ABSTRACT: At wavelengths of 10 cm and above waveguide methods and conventional free space methods for measuring reflection and transmission coefficients become awkward. By using end-fire radiators instead of lenses and reflectors a significant reduction in size can be effected and samples may be measured whose dimensions are comparable with the wavelength employed. Fig 1 shows a number of rod aeri-als, covering the range 3 - 50 cm. Their use has led to the following conclusions: 1) with a sufficiently slow surface wave almost all the electromagnetic energy is concentrated near the surface within a sheath whose diameter is comparable with the wavelength; 2) the 'effective aperture' of the aerial depends only on the extent to which the surface wave is slowed down and

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81995

S/120/60/000/03/032/055  
EO41/E521**Free-Space Measurement of Small Samples of Dielectric Materials  
at Decimetre Wavelengths**

adjustment of the beam shape is controlled either by altering the material of the rod or fixing a modifying section to it; 3) the phase front at the end of the rod is practically plane and this enables samples to be brought close to it and to reduce sensitivity to external disturbances; 4) a dielectric aerial can be matched to free space such that a wave falling on it does so without reflection; 5) an end-fire aerial enables the use of a new device for indicating a reflected signal - the surface-wave directional coupler (Ref 4). This last device has low insertion loss ( $\leq 5$  db) and high directivity ( $> 40$  db) over a  $\pm 15\%$  band. Refractometers have been constructed for measuring transmission and reflection over the range 10-30 cm and loss over 20-50 cm. In the 10-30 cm range the aerials have been conical, 50 mm diameter at the feeder and 600 mm long, made of polystyrene loaded with  $\text{BaTiO}_2$  ( $\epsilon = 14$ ). The surface was coated with graphite (200 ohm.cm) in order to stabilize the asymmetric

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81995

S/120/60/000/03/032/055  
EO41/E521Free-Space Measurement of Small Samples of Dielectric Materials  
at Decimetre Wavelengths

$TE_{11}$  mode, fix the polarization and help decouple the sample from the oscillator. In the 10-50 cm range the shape was similar, 75 mm diameter at the feeder, 750 mm long and the material loaded to give  $\epsilon = 18$ . The coating was aluminium-loaded polystyrene ( $\epsilon = 30$ ). The support for the sample was of expanded polystyrene (s.g. 0.04). The apparatus was calibrated by using the reflection from a standard reflector. A small aerial made of  $CaTiO_3$  ceramic ( $\epsilon = 150$ ) was used as a probe for exploring the field. Fig 3 shows how the reflected signal varies with distance ( $\lambda = 30$  cm) and various reflectors. Fig 4 shows the effect of separating the transmitting and receiving aerials to various distances for two samples of different thickness and of placing the samples variously. Figs 5 and 6 give the field distribution across and along the measuring area. Figs 7 and 8 compare theoretical and experimental results at 30 cm and 20 cm wavelength respectively. It is concluded that for samples as small

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S/120/60/000/03/032/055  
E041/E521

Free-Space Measurement of Small Samples of Dielectric Materials  
at Decimetre Wavelengths

as the wavelength the measurement accuracy was about 10%.  
There are 8 figures and 7 Soviet references.

SUBMITTED: April 27, 1959

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Card 4/4

S/120/62/000/003/039/048  
E039/E335

AUTHORS: Mirovitskiy, D.I. and Dubrovin, V.F.  
TITLE: Stand for measurements on microwave dielectric materials in free space  
PERIODICAL: Pribory i tekhnika eksperimenta, no. 3, 1962, 162 - 173

TEXT: Automatic apparatus is described which is intended for measuring the coefficients of reflection and transmission for plane and curved sheets of dielectric materials. One transmitter and two receiver antennae are mounted on mobile carriages on a large metal framework. The receivers are arranged for simultaneous measurement of the reflected and transmitted waves from the sample. The antennae and sample are all mounted on high columns in order to avoid distortion of the high-frequency field by the metallic parts of the apparatus. The limit of rotation of the sample is 0 to 360°, accurate to 0.25°. The limit of vertical and transverse motion of the sample is  $\pm 400$  mm, accurate to 0.1 cm. Longitudinal movement of the sample can be up to 1 400 mm. All movements are independent or can be carried out

Card 1/2

Stand for measurements ....

S/120/62/000/003/039/048  
E039/E335

simultaneously. Antennae construction is described in detail together with methods of making measurements and the calibration of the apparatus. There are five wavelength ranges and a nomogram system is described which is used for making a choice of calibration and working standards. There are 14 figures.

SUBMITTED: October 10, 1961

Card 2/2

DUBROVIN, Y.G., Inzh.

Transformer substations on reinforced concrete centrifuged supports. Mont.i spets.rab.v stroi. 22 no.10:22-23 0 '60.  
(MIRA 13:9)

1. Neftepromyslovoye upravleniye Priazovneft'.  
(Electric substations) (Pipe, Concrete)



DUBROVIN, V.I., polkovnik meditsinskoy sluzhby

A year of work by the unified medical services in fulfilling problems arising from the decree of the Central Committee of the Communist Party of the Soviet Union and Soviet of Ministers of the U.S.S.R.  
Voen.-med.zhur. no.3:10-12 Mr '61. (MIRA 14:7)  
(MEDICINE, MILITARY)

GLANTS, R.M., starshiy nauchnyy sotrudnik; DUBROVIN, V.L., mladshiy  
nauchnyy sotrudnik

Influence of isohemotransfusion on the posterior lobe of the hypophysis.  
Vrach. delo no.10:63-65 O '60. (MIRA 13:11)

1. Eksperimental'nyy otdel (rukovoditel' - starshiy nauchnyy  
sotrudnik R.M.Glants) Ukrainskogo nauchno-issledovatel'skogo instituta  
perelivaniya krovi i neotlozhnoy khirurgii.  
(BLOOD--TRANSFUSION)  
(PITUITARY BODY)

GLANTS, R.M., kand.med.nauk; DUBROVIN, V.L., mladshiy nauchnyy sotrudnik  
(Khar'kov)

Influence of isohemotransfusion on the function of the internal  
secretory area of the pancreas. Probl.endok.i gorm. 7 no.4:  
96-101 '61. (MIRA 14:8)

1. Iz fiziologicheskoy laboratorii (rukovoditel' - kand.med.nauk  
R.M. Glants) Ukrainskogo nauchno-issledovatel'skogo instituta  
pereliveniya krovi i neotlozhnoy khirurgii (dir. - kand.med.  
nauk Yu.M. Orlenko).  
(PANCREAS) (BLOOD--TRANSFUSION)

DUBROVIN, V.L.; GLANTS, R.M. (Khar'kov)

Effect of transfusion of heterogenic blood on the function of  
the endocrine portion of the pancreas. Pat. fiziol. i eksp.  
terap. 6 no.1:86-87 Ja-F '62. (MIRA 15:3)

1. Iz fiziologicheskoy laboratorii (rukovoditel' - doktor  
meditsinskikh nauk R.M. Glants) Ukrainskogo instituta perelivaniya  
krovi i neotlozhnoy khirurgii (dir. - kand.med.nauk L.A.  
Ripyakh).

(PANCREAS--SECRETION) (BLOOD--TRANSFUSION)

ANIKHIN, V. (Moskva); ~~DUBROVIN, V. (Moskva).~~

A simple video amplifier. Radio no.11:33 N '56. (MLRA 9:12)  
(Television--Apparatus and supplies)

DUBROVIN, V. (M)

107-57-7-30/56

AUTHOR: Dubrovin, V.

TITLE: Direction-Finding Attachment (Pelengatsionnaya pristavka)

PERIODICAL: Radio, 1957, Nr 7, pp 21-25 (USSR)

ABSTRACT: A description of the equisignal-zone method and a direction-finding unit for precise determination of the moment of flight of sputnik over a given point.

The principle of equisignal zone of two antennas with shifted radiation patterns is explained. Both antennas are connected to the receiver through the direction-finding unit whose principal element is an electronic switch. Operating at a rate of a few hundreds cps, the switch connects in succession (alternatively) the antennas with the receiver. The head-phones on the output of the receiver will deliver the switch (audio) frequency with all positions of the sputnik transmitter, except for one -- when the transmitter is in the equisignal zone.

A 2-tube symmetrical multivibrator is used as a switch. It controls two identical h-f amplifiers having a common output. The electronic-coupling multivibrator generates nearly square signals which are used to control the screen-grids of the amplifier tubes. With the circuit diagram data, the switching frequency is 270 cps. The last tube of the direction finder is a cathode follower.

Half-wave dipole antennas and U-shaped baluns are recommended. Antenna height 18.75 m, distance between the dipoles 3.75 m.

There are 9 figures and two Soviet references (in text).

AVAILABLE: Library of Congress

Card 1/1

- Dubrovina, V. M.

AUTHOR: Dubrovina, V. 107-8-28/62

TITLE: Observing the Signals of Artificial Earth Satellites; Operating Direction Finding Equipment (Nabludeniye za signalami iskusstvennykh sputnikov zemli; Rabota s pelengatsionnoy pristavkoy)

PERIODICAL: Radio, 1957, #8, pp 19-20 (USSR)

ABSTRACT: The method of determining the time of passage of a satellite through a meridian plane in the equisignal zone has been checked by imitating the signals of the satellite with a receiver installed on an aircraft.

A VHF receiver, an oscillograph (ЭО-7), and a tape recorder (МАГ-8) were placed in a tent. The antennas were placed 20-25 m from the tent. The d/f attachment was installed on a tripod near the antennas.

Before starting operation, the receiver and d/f attachment were warmed up for an hour and the tuning and balancing of the equipment channels were checked by transmitting an unmodulated signal from a generator "С-1" through the attenuator of the apparatus and the decoupling resistances (47 ohms) to the

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TITLE:

107-8-28/62

Observing the Signals of Artificial Earth Satellites; Operating  
Direction Finding Equipment (Nabludeniye za signalami iskusst-  
vennykh sputnikov zemli; Rabota s pelengatsionnoy pristavkoy)

input circuits of the attachment.

A local heterodyne was switched on and the receiver was tuned by means of the quartz calibrator "KK-6" to 40 megacycles. The calibrator was switched off and the "(f-1" generator was tuned to the same frequency. The equisignal moment was determined easily by the oscillograph.

The total error in determining the moment of passage of the satellite across the meridian consists of errors due to improper adjustment and position of the receiver and its antennas, uneven soil and errors in determining the equisignal moment. The latter errors, amounting to 5-10°, can be diminished by means of a magnetic tape recorder with indications of recording time.

The accuracy of determining the moment of passage through the equisignal zone can be doubled by using a multi-stage antenna, consisting of one loop vibrator and two directors.

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For matching the antenna with the asymmetrical cable (75 ohms),





SOV/109-3-7-2/23

AUTHORS: Kotel'nikov, V. A., Dubrovin, V. M., Morozov, V. A., Rzhiga, O. N., Shakhovskoy, A. M.

TITLE: Application of the Doppler Effect for the Determination of the Orbital Parameters of the Artificial Earth Satellites (Ispol'zovaniye effekta Dopplera dlya opredeleniya parametrov orbity iskusstvennykh sputnikov zemli)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Nr 7, pp 873-881 (USSR)

ABSTRACT: The frequency shift produced by the Doppler effect as a result of the motion of an earth satellite is appreciable enough to be employed in the evaluation of the time when the satellite is at a minimum distance from the point of observation (the receiver), and the corresponding air-to-ground distance and velocity. In the first approximation it can be assumed that the path of the satellite is linear (see Fig.1), so that its distance from the receiver can be expressed by:

$$r = \sqrt{r_0^2 + v_0^2 \Delta t^2} \quad (1)$$

Card 1/6 where  $\Delta t = t - t_0$ , where  $t_0$  is the instant when the

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Orbital Parameters of the Artificial Earth Satellites

satellite is at the point B and  $r_0$  is the corresponding  
air-to-ground distance. The frequency shift due to the  
Doppler effect is expressed by:

$$\Delta F = - \frac{1}{\lambda} \frac{dr}{dt} = - \frac{v_0}{\lambda} \frac{\Delta t}{\sqrt{\Delta t^2 + \left(\frac{r_0}{v_0}\right)^2}} \quad (2)$$

Eq.(2) was used to plot a number of curves for a satellite  
transmitter operating at  $f_0 = 40$  Mc/s for various values  
of  $r_0$  and  $v_0$ , where  $v_0$  is the average velocity of  
the satellite. The curves are shown in Figs.2 and 3 where  
 $\Delta F$  is in c/s and  $\Delta t$  in sec. The instant of the maximum  
approach (or minimum distance) of the satellite can be deter-  
mined from the curves of Figs.2 and 3, bearing in mind that

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they are symmetrical with respect to  $f_0$  (as shown in Fig.4);  
 $t_0$  is simply evaluated by constructing a secant which inter-  
sects the curve at a point  $O$  in such a way that its seg-  
ments between  $O$  and two other intersecting points are equal  
(see Fig.4). The instant of maximum approach can also be  
determined analytically by approximating the frequency-time  
curve by means of straight lines (as shown in Fig.5), but  
this procedure is less accurate. Eq.(2) can also be written  
as Eq.(11). If this equation is plotted in

$\Delta t^2$  and  $\Delta t^2/\Delta r^2$  coordinates a straight line is obtained  
(see Fig.6) which intersects the coordinates at  $a$  and  $b$ ;  
it is thus possible to determine the average velocity  $v_0$

and the minimum distance  $r_0$ . These quantities are

expressed by Eqs.(14) and (15) respectively. If the motion  
of the satellite is rectilinear but is subject to an accel-  
eration  $a_0$ , the distance between the transmitter and the  
receiver is given by Eq.(16), and the frequency shift is  
expressed by Eq.(17). If the acceleration  $a_0$  is

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Orbital Parameters of the Artificial Earth Satellites

comparatively small (as was the case with the two Soviet satellites) the frequency shift is expressed approximately by Eq.(18). The presence of acceleration destroys the symmetry of the frequency-time curve (see Fig.7) so that the time of maximum approach, when determined from such a curve, is subject to an error. The magnitude of the error  $\delta t$  for various distances is plotted in Fig.8. The parameters of a satellite can be determined more accurately if its trajectory is assumed to be curvilinear (see Fig.9); here the true trajectory is represented by curve 1, the approximate curvilinear trajectory by curve 2 and the tangent to the orbit by straight line 3; the centre of the approximate trajectory is situated at point C and its radius vector is equal to  $R_0$ . The distance between the satellite and the receiver can then be expressed by Eq.(19). If the motion of the satellite is uniform, the angle  $\theta$  is expressed

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Orbital Parameters of the Artificial Earth Satellites

by Eq.(21) so that the frequency shift is given by Eq.(22). If  $\theta$  is comparatively small the frequency shift is given approximately by Eq.(23). Experimentally, the task of determining the orbital parameters of the satellites by the Doppler effect was carried out by the Institute of Radio Engineering and Electronics of the Soviet Academy of Sciences at a frequency of 40 Mc/s. The actual time-frequency curve taken on October 10, 1957, is shown in Fig.10. The graphical method was used for determining  $t_0$ ,  $r_0$  and  $v_0$  and the results are shown in the table on p 880 and in Fig.11. It was found that the errors in determining  $t_0$  were 0.2 to 1 sec, while  $v_0$  and  $r_0$  could be determined

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Application of the Doppler Effect for the Determination of the  
Orbital Parameters of the Artificial Earth Satellites

with an error of 3 to 5%. There are 12 figures.

ASSOCIATION: Institut radiotekhniki i elektroniki AN SSSR (Institute  
of Radio Engineering and Electronics of the Soviet Academy  
of Sciences)

SUBMITTED: April 11, 1958.

1. Satellite vehicles trajectories--Mathematical analysis
2. Doppler navigation systems--Applications

Card 5/6

KOTEL'NIKOV, V.A.; APRAKIN, L.V.; VOYTOV, V.O.; GOLUBTSOV, M.G.;  
DUBROVIN, V.M.; ZAYTSEV, N.M.; KORENBERG, Ye.B.; MINASHIN, V.P.;  
MOROZOV, V.A.; NIKITSKIY, N.I.; PETROV, G.M.; RZHIGA, O.N.;  
SHAKHOVSKOY, A.M.

Radar system used in the Venus probe of 1961. Radiotekh.  
i elektron. 7 no.11:1851-1859 N '62. (MIRA 15:11)

1. Institut radiotekhniki i elektroniki AN SSSR.  
(Radar)  
(Venus probes)



KOTEL'NIKOV, V.A.; DUBROVIN, V.M.; MOROZOV, V.A.; PETROV, G.M.;  
BZHIGA, O.N.; TRUNOVA, Z.G.; SHAKHOVSKOY, A.M.

Results of Venus radar probes conducted in 1961. Radiotekh.  
i elektron. 7 no.11:1860-1872 N '62. (MIRA 15:11)

1. Institut radiotekhniki i elektroniki AN SSSR.  
(Venus probes)  
(Radar)

KOTEL'NIKOV, V. A., akademik; GUS'KOV, G. Ya.; DUBROYAN, V. M.;  
DUBINSKIY, B. A.; KISLIK, M. D.; KORENBERG, Ye. B.; MINASHIN,  
V. P.; MOROZOV, V. A.; NIKITSKIY, N. I.; PETROV, G. M.;  
PODOPRIORA, G. A.; RZHIGA, O. N.; FRANTSESON, A. V.;  
SHAKROVSKOY, A. M.

Radar tracking of the planet Mercury. Dokl. AN SSSR 147 no.6:  
1320-1323 D '62. (MIRA 16:1)

1. Institut radiotekhniki i elektroniki AN SSSR.

(Mercury(Planet)) (Radar in astronomy)



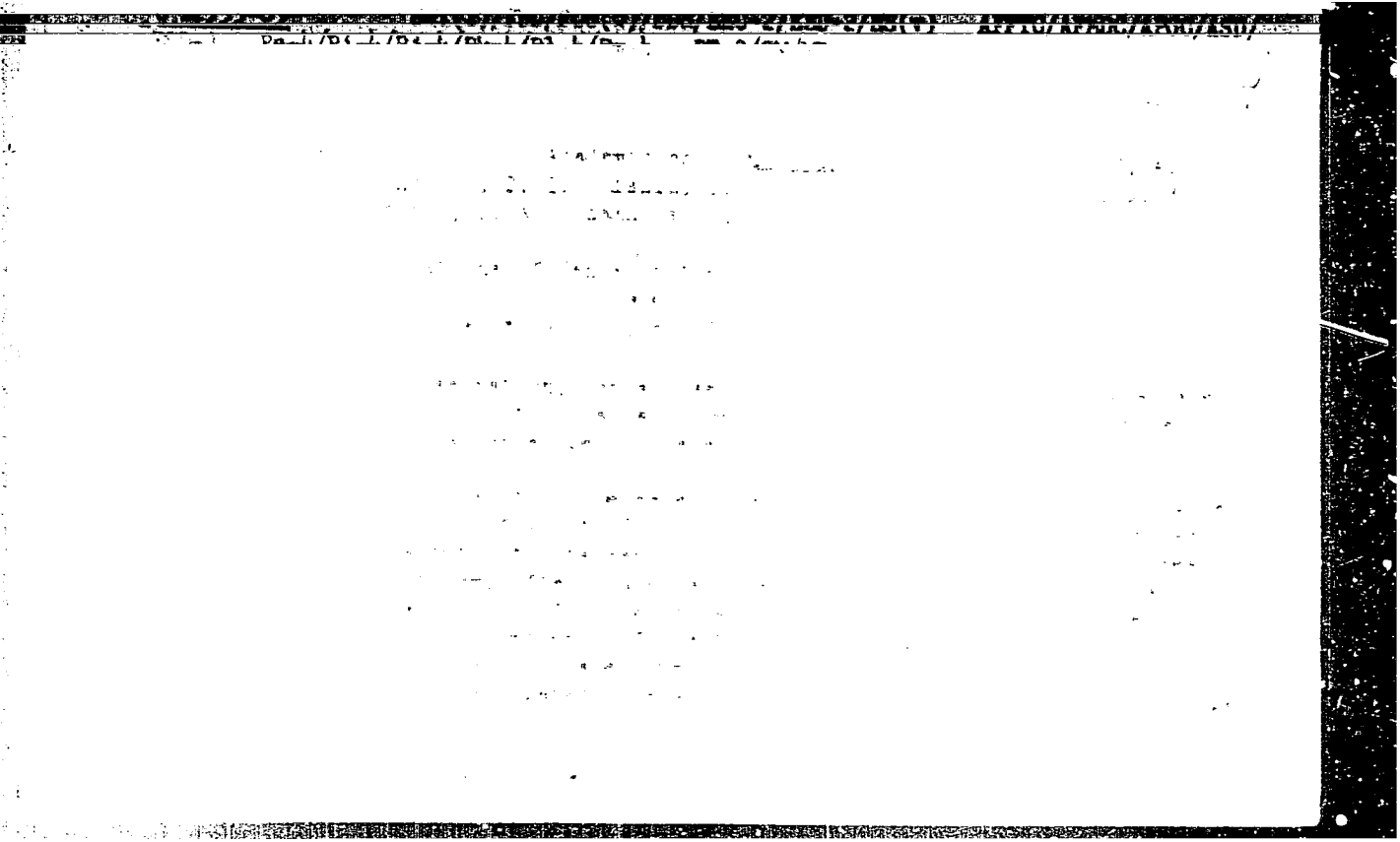
... standard bandpass settings of 50, 100, or 250 cps; the settings

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... to sunlight, when the person ...  
... from 40 sec to 10 sec ...  
... sample recordings and ...  
... (orig. art. has ...)

DATE ACQ: 11-1-68

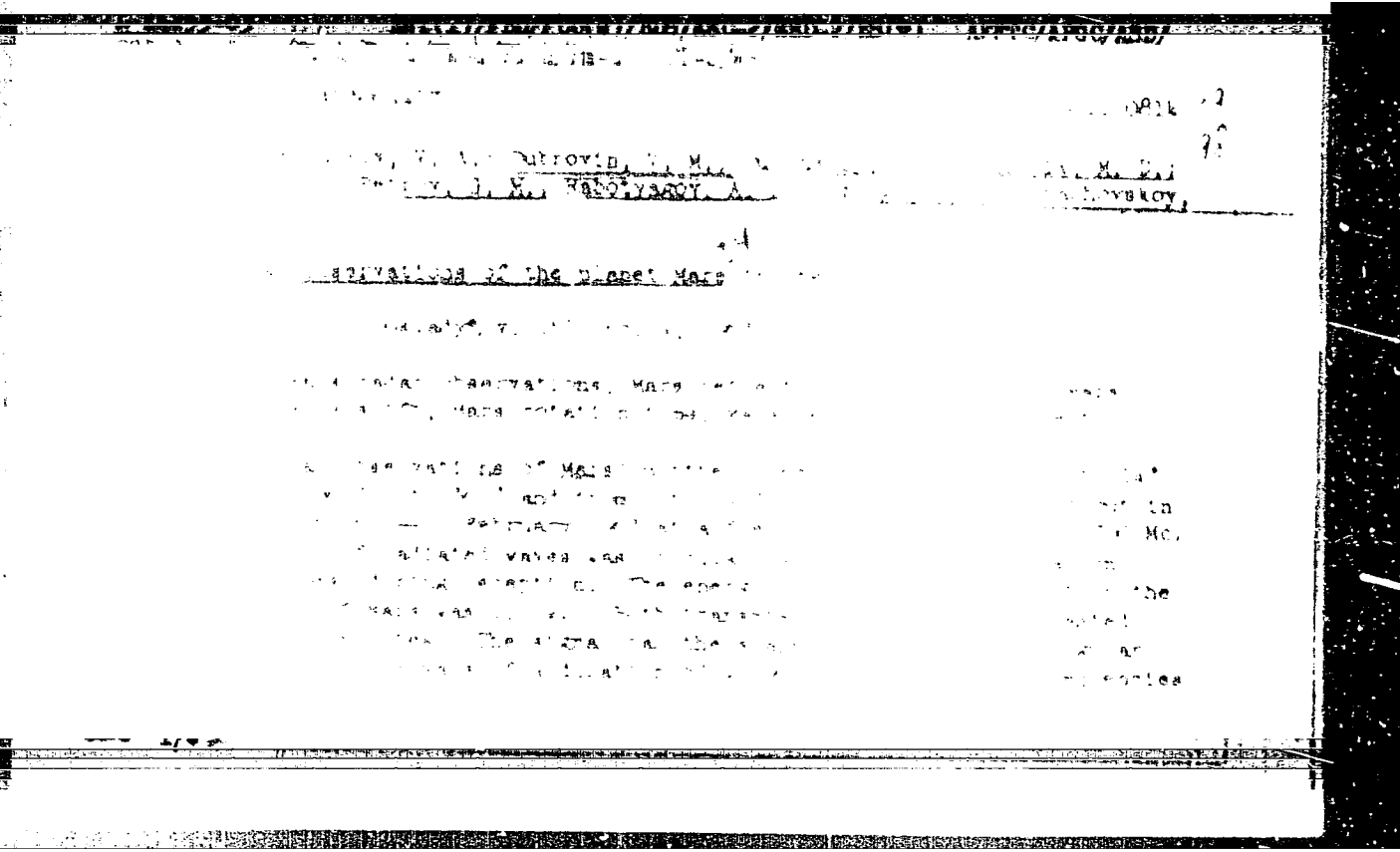
40 259 000















NO. UR. AP6045505

3

values obtained for the astronomical unit from radar frequency estimates that any effect of the Interplanetary medium on the measurements be a result of experimental error. The new method of determination of the size of Venus by prolonged radar observations (Koster, 1962) is similar to the distances to this planet obtained by the method presented; the distance then observed was 100 million km. Investigation of the planets by measuring the reflection coefficient of the surface is discussed and the results obtained for Venus ( $\lambda = 40$  cm) and Mars ( $\lambda = 60$  and 12.6 cm) are discussed in connection with the effect of the radar frequency, and the angle of incidence of the reflected wave is discussed. Comparison of the reflection coefficients of the surfaces of Venus and of the Moon shows that the reflection coefficients of about 0.2. The radar study of Mars in the USSR (Koster, 1963) is given. The mean reflection coefficient of Mars is about 0.1 (the authors assume as in the case of the Moon), while the reflection coefficient in the infrared is half the above value. The possibility of a change in the reflection coefficient of the planet's surface and the character of the reflected wave indicates the presence of large flat areas. Radar measurements of the period of rotation of Venus made in the USSR (Koster, 1962), are then discussed; the good agreement of the periods of rotation (in earth days) computed from the data obtained at different frequencies

N HR: AP4045505

and (2.5 cm) indicates that at these frequencies the reflections are ob-  
tained from the planet's surface and not from its atmosphere as it was  
to be the case for the longer wavelength  $\lambda = 40$  cm. In the USSR the  
measurements were made by the Institut radiotekhniki i elektroniki AN SSSR  
(Institute of Radio Engineering and Electronics of the USSR Academy of Sciences).  
References: 1) Figures, 2 tables and 1 formula.

CLASSIFICATION: none

00

ENCL: 00

SUB CODE: AA

005

OTHER: 000

ACCESSION NR: AP4034534

S/0020/64/155/005/1037/1038

AUTHOR: Kotel'nikov, V. A. (Academician); Apraksin, L. V.; Dubrovina, V. M.;  
Kislik, M. D.; Kuznetsov, B. I.; Petrov, G. K.; Rzhiga, O. N.; Frantsesson,  
A. V.; Shakhovskoy, A. M.

TITLE: Radar ranging of the Planet Jupiter

SOURCE: AN SSSR. Doklady\*, v. 155, no. 5, 1964, 1037-1038

TOPIC TAGS: Jupiter radar-ranging. Jupiter reflection coefficient, radio astronomy,  
Jupiter, Doppler effect

ABSTRACT: The radar ranging of Jupiter was undertaken in order to investigate the propagation of radiowaves over long distances, and for the determination of reflecting properties of Jupiter's surface. The power received by the planet's surface was 13 w. The time for double passage of the signal was 1 hr, 6 sec, and the frequency was about 700 mc. Two consecutive signals differed by 62.5 cycles. The duration of the signals and the pauses was about 4 sec. The Doppler effect caused by the relative motion and rotation of Earth was compensated by an arrangement which linearly changed the heterodyne of the sender. The noise was

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...ity, v. 163, no. 1, 1965, p. 10

... reflection, Venus radar observations, ... measurements  
... radio astronomy

57 2 6  
Observations of Venus at 40 cm were made at the Institute of Radio Engineering and Electronics. Frequency modulation and periodic modulation were employed. Paramagnetic and parametric circuits. Signal analysis was performed with a filter bandwidth of 1.2 cps for each channel. Measurements of the radial velocity were determined on the basis of the Doppler shift. Relationship between the radial velocity and the relation to the radiation frequency.



4 11 1971

Институт радиотехники и радиосвязи  
Инженерия and Electronics, Academy

EXCEL 2

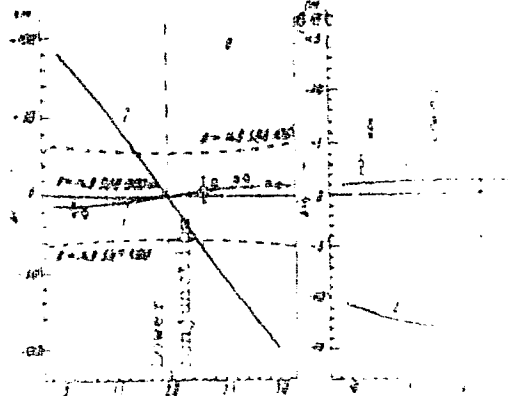
OTHER 4

AA

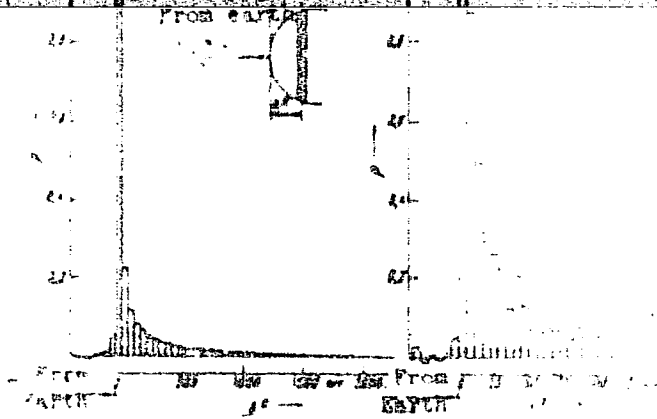
463

A-5018071

ENCLOSURE: 01



... variations in the relative ...  
... the radial velocity of ...  
... between the measured ...  
... to the 1 unit point ...  
... the measured and ...  
... enter in relation to the measured ...



Energy range distribution of signals referred to [unclear] obtained  
frequency modulation (s) with a deviation of [unclear] cps  
filters and  $\sigma = 0.0010$  for wide filters [unclear]  
100 kc

PARAMONOVA, V.I.; PLATUNOVA, N.B.; DUBROVIN, V.S.

Complex formation of uranyl ion with salicylic acid. Part 1: Complex formation in solution studied by spectrophotometry. Radiokhimiia 6 no.5:505-513 '64.

(MIRA 18:1)

BILITSKIY, M.L.[Bilets'kiy, M.L.], inzh.; DUBROVIN, V.S., inzh.

How to organize repair shops on collective farms. Mekh. sil'.  
hep. 9 no. 6:7-9 Je '58. (MIRA 11:7)  
(Repair and supply stations)

DUBROVIN V.S., inzh.-mekhanik

Get collective farm machinery and equipment well prepared for 1959.  
Mekh.sil'.hosp. 9 no.11:20:21 N '58. (MIRA 11:12)  
(Agricultural machinery)

DUBROVIN, V.S., insh.

Improve the work of collective-farm repair shops, Mekh. sil'. hosp.  
11 no.11:3-4 E '60. (MIRA 13:11)  
(Agricultural machinery—Maintenance and repair)

DUBROVIN, V.S., inzh.-mekhanik

Washing machines for repair shops. Mekh. sil'.hosp. 12 no.8:  
26 Ag '61. (MIRA 14:7)  
(Agricultural machinery—Maintenance and repair)  
(Washing machines)



DUBROVIN, V.S., inzh.-mekhanik

Planning expenses for the maintenance and repairing of tractors  
and machinery. Mekh. sil'. hosp 12 no.11:15-17 N '61.

(MIRA 14:11)

(Agricultural machinery—Maintenance and repair)

(Tractors—Maintenance and repair)

DUBROVIN, V.S., inzh.-mekhanik

Allotment of funds for maintenance and repair of automobiles. Mekh.  
all. hosp. 13 no. ~~8:13-15~~ 4g-162. (MIRA 15:7)  
(Automobiles—Maintenance and repair)

DUBROVIN, V.S., insh.

Planning the volume of work and costs in over-all maintenance  
and repair of a machinery and tractor pool. Mekh. sil'. hosp.  
14 no.5:18-19 My '63. (MIRA 16:10)

**DUBROVIN, V. Ye.**

Category : USSR/Radiophysics - Statistical Phenomena in Radiophysics

I-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4429

Author : Malakhov, A.N., Dubrovin, V. Ye.

Title : Certain Investigation of the Flicker Effect.

Orig Pub : Zh. tekhn. fiziki, 1956, 26, No 7, 1451-1455

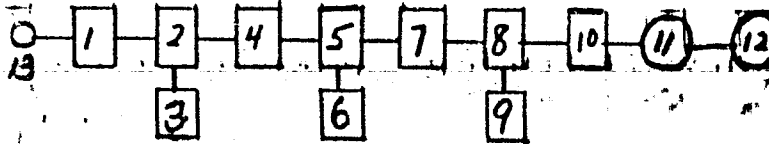
Abstract : A study was made of tube-current fluctuations in the 0.5 -- 120 cycle range, where the noise caused by the flicker effect exceeds the shot or the thermal noise. A special noise analyzer, based on a triple frequency conversion circuit, was used for the measurements. The maximum sensitivity of the analyzer, the block diagram of which is shown in the drawing, is  $10^{-16}$   $v^2$ /cycle. The flicker intensity vs. anode voltage curves displayed minima and maxima, alternating approximately every 14 volts, caused, in the opinion of the authors, to the ionization of residual gases --  $CO_2$ ,  $CO$ ,  $N$ ,  $H_2O$  -- which have ionization potentials from 13.2 to 14.5 volts. The relative magnitude of the fluctuations  $\Delta J^2/J^2$  ranges from  $10^{-6}$  to  $10^{-14}$ . The cathode temperature does not affect the form of the spectrum. Bibliography, 5 titles.

Card : 1/3

Category : UBSR/Radiophysics - Statistical Phenomena in Radiophysics

I-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4429



- 1)  $A_I$  -- First amplifier
- 2)  $M_I$  -- First mixer
- 3)  $H_I$  -- First heterodyne (800 cycles)
- 4)  $A_{II}$  -- Second amplifier
- 5)  $M_{II}$  -- Second mixer
- 6)  $H_{II}$  -- Second heterodyne (800-930 cycles)
- 7) DCF -- DC filter with approximate bandwidth of 0.2 cycles

Card : 2/3

Category : USSR/Radiophysics - Statistical Phenomena in Radiophysics

I-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4429

- 8)  $M_{III}$  -- Third mixer
- 9)  $H_{III}$  -- Third heterodyne (500 cycles)
- 10)  $A_{III}$  -- Third amplifier
- 11) T -- Thermocouple
- 12) Galv. -- Galvanometer
- 13) Input

Card : 3/3

DUBROVIN, Ye., dotsent; MEREULOV, Ye., dotsent; TURCHIKHIN, E., dotsent

Precast reinforced concrete city pavements. Zhil.-kom.khoz.  
10 no.9:27-29 '60. (MIRA 13:9)

1. Kafedra dorog Vsesoyuznogo zaochnogo inzhenerno-stroitel'nogo  
instituta.

(Pavements, Concrete)

VINITSKIY, L., dotsent; DUBROVIN, Ye., dotsent; TURCHIKHIN, E., dotsent

Elastic securing of rails to reinforced-concrete ties. Zhil.-kov.  
khoz. 10 no.10:30-31 '60. (MIRA 17:10)

1. Vsesoyuznyy nauchnyy inzhenerno-stroitel'nyy institut.  
(Street railways--Rails)



DUBROVIN, Ye.; KARMAL'SKIY, O.; FILATOV, G.; LOKOTKOV, A.; LEBEDINSKIY, A.;  
BARANOV, I.; MITSEVICH, P.; BABENKO, Ye.; GOLITSYN, A. (Ozery, Moskovskoy  
obl.); SHCHEPOTIN, I. (Ozery, Moskovskoy obl.); KHALANGOT, A. (Sneshnoye,  
donetskoy obl.); KUZ'MICHEV, N. (Sneshnoye, Donetskoy obl.); SIRITSA, A.,  
inzh. po ratsionalizatsii

This is the way we live. Izobr. i rats. no.10:4-5, 23 '63.

(MIRA 17:2)

1. Chlen soveta obshchestvennogo konstruktorskogo byuro zavoda im. V.I. Lenina (for Karmal'skiy).
2. Predsedatel' Amurskogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Filatov).
3. Predsedatel' Chelyabinskogo promyshlennogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Lokotkov).
4. Starshiy ~~svyazchik~~ Odesskogo zavoda imeni Dzerzhinskogo (for Lebedinskiy).
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DUBROVIN, Ye. N., Cand of Tech Sci -- (diss) "The question of utilizing  
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(Academy of Municipal Economy im K. D. Pamfilov), 100 copies  
(KL, 30-57, 110)

MERKULOV, Yefim Afanas'yevich; PETROV, Vyacheslav Konstantinovich [deceased];  
SOSYANTS, Vasilii Georgiyevich; YUDIN, Vasilii Aleksandrovich;  
Prinimali uchastie: DUBROVIN, Ye.M.; SLAVUTSKIY, A.K.; BARKOVA,  
Ye.A.; BLATNOV, M.D.; KUDRYAVTSEV, G.K.; SAMOYLOV, D.S.; FRIDLYAND,  
A.G.. BROSHTEYN, L.A., red.; RACHEVSKAYA, M.I., red.isd-va;  
LELYUKHIN, A.A., tekhn.red.

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i dorozhno-mostovoe khoziaistvo. Moskva, Isd-vo M-va kommun.khoz.  
RSFSR, 1959. 473 p. (MIRA 12:8)

1. Sotrudniki Akademii kommunal'nogo khozaystva im. K.D.Panfilova  
(for Barkova, Blatnov, Kudryavtsev, Samoylov, Fridlyand).  
(Transportation) (Streets)

<sup>N.</sup>  
DUBROVIN, Yev. kand. tekhn. nauk

Using large sections in constructing streetcar tracks. Zhil.-kou.  
khoz. 9 no.4:15-16 '59. (MIRA 12:7)  
(Concrete slabs) (Moscow--Street railways--Construction)

DUBROVIN, Ye.N., doc., kand. tekhn. nauk; LUSHCHIKINA, N., red.;  
STRAKHOVA, T., tekhn. red.

[Designing the longitudinal section of city streets and roads]  
Proektirovanie prodol'nogo profilia gorodskikh ulits i dorog;  
leksiia dlia studentov spetsial'nosti "Gorodskoe stroitel'-  
stvo i khoziaistvo." Moskva, Vses. zaohryi inzhenerno-stroit.  
in-t, 1962. 17 p. (MIRA 15:12)  
(Streets) (Roads--Design)

MERKULOV, Yefim Afanas'yevich, dots., kand. tekhn. nauk; ~~DUBROVIN,~~  
Yevgeniy Nikolayevich, dots., kand. tekhn. nauk; TURCHIKHIN,  
Emmanuil Yakovlevich, dots., kand. tekhn. nauk; YUDIN, Vasilii  
Aleksandrovich, dots., kand. tekhn. nauk; Primalni uchastiye:  
SLAVUTSKIY, A.K., dots., kand. tekhn. nauk; ZAYTSEV, L.K., inzh.;  
ZAMAKHAYEV, M.S., red.; OVSYANNIKOVA, Z.G., red. izd-va

[Examples of the design of roads and public transportation systems  
in cities] Primery proektirovaniia dorog i setei passazhirskogo  
transporta v gorodakh. [By] E.A.Merkulov i dr. Moskva, Gos. izd-  
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(Road construction) (Rapid transit)

DUBROVIN, Ye.N., dotsent; MERKULOV, Ye.A., dotsent; TURCHIKHIN, E.Ya.  
dotsent

Use precast reinforced concrete in road construction.  
Gor. khcz. Mosk. 36 no.9:17-20 S '62 (MIRA 15:10)

1. Vsesoyuznyy zaochnyy inzhenerno-stroitel'nyy institut.  
(Prestressed concrete construction) (Moscow—Road construction)

DUBROVIN, Yevgeniy Nikolayevich; TURCHIKHIN, Emmanuil Yakovlevich;  
SHAFRAN, Vladimir Leont'yevich; SAJOYLOV, D.S., red.;  
ISEYEVA, R.Kh., red.izd-va; KHENOKH, F.M., tekhn. red.

[City vehicular and pedestrian crossings at various levels]  
Gorodskie transportnye i peshkhodnye peresechenia v raz-  
nykh urovniakh. Moskva, Izd-vo MKKh RSFSR, 1963. 131 p.  
(MIRA 17:2)



DUBROVIN, Yevgeniy Nikolayevich; ZAYTSEV, Leonid Konstantinovich;  
PURCHIKHIN, Esmannil Yakovlevich; SOSYANTS, V.G., red.;  
LYUBINA, R.M., red.isd-va; KHENOKH, F.M., tekhn. red.

[The economics and the organization of the building and  
maintenance of city roads] Ekonomika i organizatsiia stroi-  
tel'stva i ekspluatatsii gorodskikh dorog. Moskva, Izd-vo  
MKKh RSFSR, 1963. 233 p. (MIRA 16:10)

(Roads)

DUBROVIN, Yevgeniy Nikolayevich; TURCHIKHIN, Emmanuil Yakovlevich;  
YUDIN, Vasilii Aleksandrovich; LANTSEBERG, Yu.S., red.;  
OVSYANNIKOVA, Z.G., red.izd-va; GRIGORCHUK, L.A., tekhn.  
red.

[Organization of the construction and operation of urban  
roads] Organizatsiia stroitel'stva i ekspluatatsii gorod-  
skikh dorog. Moskva, Vysshaya shkola, 1963. 305 p.

(MIRA 16:8)

(Road construction) (Streets)

DUBROVIN, Yevgeniy Nikolayevich; TURCHIKHIN, Esmannil Yakovlevich;  
ZAMKHAYEV, M.S., red.

[Pavements of prestressed reinforced concrete] Dorozhnye  
pokrytiia iz predvaritel'no napriazhennogo zhelezobetona.  
Moskva, Transport, 1964. 97 p. (MIRA 17:6)

DUBROVIN, Ye.Ye. GELLER, Z.I.; LEVENBUK, I.Kh.

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(MIRA 17:11)