

BARANOVSKIY, A. L.

Baranovskiy, A. L. "On the characteristics of the resistance to cold of the excess of the park dendroflora of Zhitomir and its environs", Trudy Zhitomirsk. s. - kh. in-ta, Vol. III, 1949, p. 79-83.

SO: U-4630, Sent. 16, 1953, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

BARANOVSKIY, A. I.

BARANOVSKIY, A. I. and SLUKHAY, S. I.

Baranovskiy, A. I. and Slukhay, S. I. "On the problem of the method of determining the resistance of soil to erosion", Trudy Zhitomirsk. S. kh. in-ta, Vol. 111, 1949, p. 97-100.

SO: U-4630, 16 Sept. 53, (Istoria 'Zhurnal 'nykh Staty, No. 23, 1949).

1. BARANOVSKIY, A. L.
2. USSR (600)
4. Plant Introduction
7. Introduced tree and shrub varieties in the Zhitomir Botanical Garden.  
Biol. Glav. bot. sada No. 12, 1952

9. Monthly Lists of Russian Accessions. Library of Congress, March 1953. Unclassified.

BARANOVSKIY, A.L.

NAZAREVSKIY, S.I.; MAKAROV, S.N.; PILIPENKO, F.S.; GERASIMOV, M.V.; IL'INSKAYA, M.L.; VEKSLER, A.I., [deceased]; VASIL'YEV, I.M.; IL'INA, N.V.; SOKOLOV, S.Ya.; LOZINA-LOZINSKAYA, A.S.; SAAKOV, S.G.; ZALESSKIY, D.M.; AVRORIN, N.A.; IVANOV, M.I.; PRIKLADOV, N.V.; SOBOLEVSKAYA, K.A.; SALAMATOV, M.N.; MALINOVSKIY, P.I.; LUCHNIK, A.I.; KRAVCHENKO, O.A.; VEKHOV, N.K.; GROZDOV, B.V.; MASHKIN, S.; BOSSE, G.G.; PALIN, P.S. (g. Shuya, Ivanovskoy oblasti); MATUKHIN; ZATVARNITSKIY, G.F.; GRACHEV, N.G.; CHERKASOV, M.I.; KIRKOPULO, Ye.N.; LEVITSKAYA, A.M.; GRISHKO, N.N.; LIKHVAR', D.F. VIL'CHINSKIY, N.M.; LYPА, A.L.; OREKHOV, M.V.; SHCHERBINA, A.A.; TSYGANKOVA, V.Z.; BARANOVSKIY, A.L.; GEORGIYEVSKIY, S.D.; STEPUNIN, G.A. OZOLIN, E.P.; LUKAYTENE, M.K.; KOS, Yu.I.; VAIL'YEV, A.V.; RUKHADZE, P.Ye.; VASHADZE, V.N.; SHANIDZE, V.M.; MANDZHAVIDZE, D.V.; KORKESHKO, A.L.; KOLESNIKOV, A.I. (g. Sechi); SERGEYEV, L.I.; VOLOSHIN, M.P.; RYBIN, V.A.; IVANOVA, B.I.; RYABOVA, T.I.; GAREYEV, E.Z.; RUSANOV, F.N.; BOCHANTSEVA, Z.P.; BLINOVSKIY, K.V.; KLYSHEV, L.K.; MUSHEGYAN, A.M.; LEONOV, L.M.

Talks given by participants in the meeting. Biul.Glav.bot.sada no.15:  
85-182 '53. (MLRA 9:1)

1. Glavnnyy botanicheskiy sad Akademii nauk SSSR (for Makarov, Pilipenko, Gerasimov, Il'inskaya, Veksler); 2. Akademiya komunal'nogo khozyaystva imeni K.D. Pamfilova (for Vasil'yev); 3. Vsesoyuznaya sel'skokhozyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanicheskogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov).

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gosudarstvennogo ordena Lenina universiteta (for Zalesskiy); 6. Pol'yarno-Al'piyskiy botanicheskiy sad Kol'skogo filiala imeni S.M. Kirova Akademii nauk SSSR (for Avrorin); 7. Botanicheskiy sad pri Tomskom gosudarstvennom universiteta (for Ivanov); 8. Botanicheskiy sad pri Tomskom gosudarstvennom universiteta imeni V.V. Kuybysheva (for Prikladov); 9. Tsentral'nyy Sibirskiy botanicheskiy sad Zapadno-Sibirskogo filiala Akademii nauk SSSR (for Salamatov, Sobolevskaya); 10. Botanicheskiy sad Irkutsko gosudarstvennogo universiteta imeni A.A. Zhdanova (for Malinovskiy); 11. Altayskaya plodovo-yagodnaya opyt'naya stantsiya (for Luchnik); 12. Bashkirskiy botanicheskiy sad (for Kravchenko); 13. Lesostepnaya selektsionnaya opyt'naya stantsiya dekorativnykh kul'tur tresta Goszelenkhoz Ministerstva kommunal'nogo khozyaystva RSFSR (for Vekhov); 14. Bryanskiy leskhozaystvennyy institut (for Grozdov); 15. Botanicheskiy sad pri Voronezhskom gosudarstvennom universitete (for Mashkin); 16. Orekhovo-Zuyevskiy pedagogicheskiy institut (for Bosse); 17. Botanicheskiy sad pri Rostovskom gosudarstvennom universitete imeni V.M. Molotova (for Matukhin); 18. Botanicheskiy sad Kuybyshevskogo gorodckogo otdela narodnogo obrazovaniya (for Zatvarnitskiy); 19. Zoobotanicheskiy sad pri Kazanskom universitete (for Grachev); 20. Gosudarstvennyy respublikanskiy proektnyy institut "Giprokommunistroy" (for Cherkasov); 21. Botanicheskiy sad Odesskogo gosudarstvennogo universiteta imeni I.I. Mechnikova (for Kirkopulo); 22. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 23. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 24. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 25. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 26. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 27. 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NAZAREVSKIY, S.L.---(continued) Card 3.

Akademii nauk USSR (for Grishko, Likhvar', Vil'chinskiy); 24. Kiyevskiy sel'skokhozyaystvennyy institut (for Lypa); 25. Botanicheskiy sad Chernovitskogo gosudarstvennogo universiteta (for Orekhov); 26. Botanicheskiy sad pri L'vovskom gosudarstvennom universitete imeni Iv. Franko (for Shcherbina); 27. Botanicheskiy sad Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo (for TSygan-kova); 28. Botanicheskiy sad Zhitomirskogo sel'skokhozyaystvennogo instituta (for Baranovskiy); 29. Botanicheskiy sad Akademii nauk Belorusskoy SSR (for Georgiyevskiy); 30. Institut biologii Akademii nauk Belorusskoy SSR (for Stepunin); 31. Botanicheskiy sad Akademii Litovskoy SSR (for Lukaytene); 32. Botanicheskiy sad Latviyskogo gosudarstvennogo universiteta (for Ozolin); 33. Kabardinskiy krayevedcheskiy botanicheskiy sad (for Kos); 34. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Vasil'yev, Rukhadze); 35. Batuskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Shanidze); 36. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Mandzhavidze); 37. Sochinskiy park Dendrariy (for Korkeshko); 38. Gosudarstvennyy Nikitskiy botanicheskiy sad imeni V.M. Molotova (for Sergeev, Voloshin); 39. Krymskiy filial Akademii nauk SSSR (for Rybin); 40. Botanicheskiy sad Moldavskogo filiala Akademii nauk SSSR (for Ivanova); 41. Botanicheskiy sad Botanicheskogo instituta Akademii nauk Tadzhikskoy SSR (for Ryabova); 42. Botanicheskiy sad Kirgizskogo filiala Akademii nauk SSSR (for Gareyev); 43. Botanicheskiy

NAZAREVSKIY, S.L.---(continued) Card 4.

sad Akademii nauk Usbekskey SSR (for Rusanov, Bochantseva); 44.  
Botanicheskiy sad Akademii nauk Turkmenskoy SSR (for Blinovskiy);  
45. Respublikanskiy sad Akademii nauk Kazakhskey SSR (for Klyshev,  
Mushegyan).

(Botanical gardens)

BARANOVSKIY, A.L., kandidat sel'skokhozyaystvennykh nauk.

Knotweed the "herb nurse." Priroda 45 no.2:115-116 P '56.  
(MLRA 9:5)

1. Zhitomirskiy sel'skokhozyaystvennyy institut.  
(Knotweed)



*BARANOVSKIY, A.L.*

USSR/Cultivated Plants - Technical, Oil, and Sugar Plants.

M-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10945

Author : Baranovskiy, A.L.

Inst : Botanical Garden of the Zhitomir Agricultural Institute

Title : An Experiment in Growing Vegetable Sponge and Lagenaria  
in Zhitomir.

Orig Pub : Byul. Gl. Botan sada AN SSSR, 1956, No 24, 105-107

Abstract : An experiment in raising vegetable sponge and lagenaria  
in peat-humus pots in the Botanical Garden of the Zhitomir  
Agricultural Institute.

Card 1/1

Country : USSR M  
Category : CULTIVATED PLANTS, FRUITS, Berries.  
Abs. Jour. : REF ZHUR-BIOL., 21, 1955, NO-96161  
Author : Baranovskiy, A.I.  
Institut. : Zhitomir Agricultural Institute  
Title : Uncovered Grape Cultures in the North Western  
Ukrainian SSR  
Orig. Pub. : Nauchn. tr. Zhitomirsk. s.-kh. in-t, 1957, 4,  
181-186  
Abstract : Observations made at Zhitomir Agricultural Insti-  
tute testify to the identical results stemming  
from the grapevines having wintered over the  
periods of 1953/54 and 1954/55 (among which the  
former was unusually long and severe for the north  
western Ukrainian SSR); these were of the varieties  
such as Golden Chasselas and Riesling and were both  
covered and uncovered. A description is given of  
an uncovered method of growing grapes (the space  
between the plants is profiled in the shape of a  
card: 1/2

Country :

M

Category : CULTIVATED PLANTS, FRUITS

Abs. Jour. : REF ZHUR-BIOL., 21, 1958, NO-96161

Author :

Institution :

Title :

Orig. Pub. :

Abstract : cover 35-45 cm in height, the vines were placed in ditch as deep and as wide as a spade; during the very first snowfall the ditch became filled with snow, the cover of the vines placed in the ditch reaching 35-50 cm. --Yu. T. Zhukovskaya

Card: 2/2

BARANOVSKIY, A.L.

Plant introduction at the botanical garden of the Zhitomir  
Agricultural Institute. Bjul. Glav. bot. sada no.41:111-112  
'61. (MIRA 14:11)

1. Botanicheskiy sad Zhitomirskogo sel'skokhozyaystvennogo  
instituta.

(Zhitomir--Plant introduction)

Барановский, А. М.

RODIONOV, I.V.; ~~BARANOVSKIY, A.M.~~

Some problems on the study of engineering geology properties  
of rocks in establishing open pits and deep excavations. Razved.  
i okh.nedr 23 no.3:49-57 Mr '57. (MLRA 10:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i  
inzhenernoy geologii.  
(Engineering geology)

BARANOVSKIY, A.M. [Baranovs'kyi, A.M.]

Grand triumphs and wonderful prospects of communist construction  
in the Ukraine. Visnyk AN URSR 2 no.7:11-23 Je '58. (MIRA 11:9)

1. Zastupnik golovi Derzhplanu URSR.  
(Ukraine--Economic conditions)

BARANOVSKIY, A.M. [Baranovs'kyi, A.M.]

Basic problems in the industrial development of the Ukrainian  
S.S.R. from 1959 to 1965. Visnyk AN URSS 30 no.3:3-13 Mr '59.  
(MIRA 12:6)

1. Zamestitel' nachal'nika Gosplana USSR.  
(Ukraine--Industries)

PHASE I BOOK EXPLOITATION

SOV/5293

Nauchno-tehnicheskaya konferentsiya po razvitiyu proizvoditel'nykh sil Khar'kovskogo ekonomicheskogo administrativnogo rayona, 1958.

Voprosy mashinostroyeniya; trudy konferentsii... (Problems of Machine Building; Transactions of the Scientific Technological Conference on the Development of Productive Forces of the Khar'kov Economic Administrative Region) no. 3. Kiyev, Izd-vo AN UkrSSR, 1960. 182 p. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Sovet po izucheniyu proizvoditel'nykh sil UkrSSR.

Editorial Board: Resp. Ed.: A.A. Vasilenko, Academician of the Academy of Sciences UkrSSR; A.A. Gorshkov, Corresponding Member, Academy of Sciences UkrSSR; I.M. Postnikov, Doctor of Technical Sciences; S.M. Kutsenko; A.I. Adamenko, Candidate of Technical Sciences; G.M. Davydov, Candidate of Economical Sciences; Ed. of Publishing House: S.D. Lepkiy; Tech. Ed.: R.A. Buniy.

PURPOSE: This collection of articles is intended for scientific personnel, engineers, technicians, sovmarkhoz workers, and planning organizations.

Card 1/7



Problems of Machine Building (Cont.)

SOV/5293

COVERAGE: The articles deal with problems in technology and techniques in the manufacture of engines, hydraulic turbines, diesel locomotives, tractors, combines, electrical machinery, etc. Considerable attention is given to the following: the development of various types of equipment used for automation in the coal industry; equipment development for the production and use of rectifiers; the development of new accessories for measuring and controlling heat-engineering parameters; and the introduction of advanced methods into founding and die forging. No personalities are mentioned. References accompany some of the articles. There are 20 references: 16 Soviet, 2 German, 1 French, and 1 English.

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Problems of Machine Building (Cont.)

SOV/5293

- Levitskiy, P.A. [Docent at the Khar'kov Polytechnical Institute]. Concentration and Specialization in Founding 164
- Kostin, L.G. [Docent at the Khar'kov Polytechnical Institute]. Prospects for the Introduction of Die Rolling Into the Mills of the Khar'kov Economic Region 170
- Khodosko, D.L. [Docent at the Khar'kov Polytechnical Institute]. Methods for Reducing the Manufacturing Cost of Forgings 177
- Fel'dman, I.I. [Docent at the Khar'kov Polytechnical Institute]. Problems in the Modernization of Press-Forging Equipment 180

AVAILABLE: Library of Congress

Card 7/7

VK/wrc/gmp  
8-3-61

NESTERENKO, O.O., otv.red.; BARANOVSKIY, A.M. [Baranovs'kyi, A.M.],  
red.; KOROID, O.S., kand.ekonom.nauk, red.; GORELIK, L.Ye.  
[Horelik, L.E.], doktor ekonom.nauk, red.; GRADOV, G.L.  
[Hradov, H.L.], kand.ekonom.nauk, red.; KOZAKEVICH, T.A., red.  
izd-va; RAKHLINA, N.P., tekhn.red.

[The national economy of the Ukrainian S.S.R. in the seven-year  
plan; its present-day conditions and prospects for its development]  
Narodne hospodarstvo Ukrain's'koi RSR u semyrichsi; suchasnyi stan  
i perspektyvy rozvytku. Kyiv, 1960. 519 p. (MIRA 13:11)

1. Akademiya nauk USSR, Kiyev. Institut ekonomiki. 2. Chlen-korre-  
spondent AN USSR (for Nesterenko). 3. Pervyy zamestitel' predse-  
datelya Gosplana Ukrainskoy SSR (for Baranovskiy).  
(Ukraine--Economic conditions) (Ukraine--Economic policy)

BARANOVSKIY, A. V.

Baranovskiy, A. V. - "On measures which reduce the cost and simplify the construction work during the winter," Sbornik trudov Stroit. In-ta Mosk. soveta, Issue 2, 1949, p. 21-30

SO: U-3600, 10 July 53, (Ictopis 'Zhurnal 'nykh Statey, No. 6, 1949).



BARANOVSKIY, B. [Baranowski, B.]; TSHIROVSKIY, A.S. [Cikrowski, A.S.]

Some comments on the paper by I.K. Belashchenko and A.A. Zhukhovitskii "On the theory of electrolytic transport."  
Zhur. fiz. khim. 36 no.9:2096-2097 S 162. (MIRA 1746)

1. Institut Fizicheskoy Khimii Pol'skoy Akademii nauk.

OLEYNIKOV, Viktor Alekseyevich, kand. tekhn. nauk; BELYKH, Ivan Kalistratovich, inzh.; BARANOVSKIY, Boris Grigor'yevich, inzh.; SIDOROV, Anatoliy Ivanovich, inzh.; SHIPULIN, P.P., kand. tekhn. nauk, red.; YEGOR'KOV, N.F., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Servo system for electric spark machining] Slediashchaya sistema dlia elektroerozionnogo stanka. Leningrad, 1960. 21 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriya: Elektricheskie metody obrabotki materialov, no.4)

(MIRA 14:10)

(Electric metal cutting) (Automatic control)

BARANOVSKIY, B.K., inzhener.

First class TU-5-3 transmitter amplifier. Vest.svyazi 14 no.11:6-8  
N '54. (MIRA 8:1)

1. Rukovoditel' gruppy laboratorii TsKB Ministerstva svyazi.  
(Radio--Transmitters and transmission) (Amplifiers, Electron-tu-  
be)

BARANOVSKIY, B. [K.]  
USSR/Electronics - Radio

Card 1/1

Author : Baranovsky, B.

Title : City Radiofication Systems

Periodical : Radio. 5, 23 - 26, May 1954

Abstract : The author describes the method of relaying radio programs from large cities and regional centers to the periphery, and the layout of radio-network lines in wire broadcasting. Simplified diagrams of radiofication of large cities and regional centers, block diagrams of amplifier-repeater stations and substations, and others (five diagrams in all) are featured in this article.

Institution : ....

Submitted : ....

BARANOVSKIY, B.K.

USSR/ Electronics - Amplifiers

Card 1/1 Pub. 133 - 3/23

Authors : Baranovsky, B. K., Engineer and Group Leader of the Central Bureau for  
Design of the Ministry of Communications

Title : Relay amplifier Class I of the TY - 5 - 3 type (for Class I Stations)

Periodical : Vest. svyazi 11, 6 - 8, Nov 1954

Abstract : A Class I, type TY - 5 - 3 relay amplifier manufactured according to GOST USSR Bureau of Standards, assembled on the feed-back principle, and having an output of 5 kilowatts is described. A block and circuit diagram, showing the pre-amplifier (or limiter) stage, the power stage and rectifiers, and indicating the types of amplifier tubes, resistances, capacitances, transformer couplings, and voltages at various stages of operation, are presented. The correspondence of the amplifier characteristics to the GOST standards is demonstrated in a special table. The component parts of the amplifier are housed in two cabinets. Diagrams; graphs; illustrations; table.

Institution: .....

Submitted: .....

*BARANOVSKIY, B.K.*

SHVARTS, Boris Aronovich; LIPKINA, Vera Arkad'yevna; SEGAL', Solomon Grigor'yevich; BARANOVSKIY, Boris Konstantinovich; FURSOV, V.A., otvetstvennyy redaktor; LIPKINA, V.A., redaktor; LEDNEVA, N.V., tekhnicheskiy redaktor

[New radiobroadcasting apparatus; a collection of papers] Tekhnika svyazi: Novaya radioveshchatel'naya apparatura; informatsionnyi sbornik. Moskva, Gos. izd-vo lit-ry po voprosam svyazi i radio, 1956. 108 p. (MLRA 10:1)

1. Russia (1923- U.S.S.R.) Ministerstvo svyazi. Tekhnicheskoye upravleniye.

(Radio--Transmitters and transmission)

8. A. B. ...

KUPERMAN, Ye.I., inzhener.; BARANOYSKIY, B.K., inzhener.

Remote control equipment for type UUP-1 substations. Vest. svyazi  
17 no.4=8-10 Ap. '57. (MIRA 10:5)

1. Tsentral'noye konstruktorskoye byuro Ministerstva svyazi SSSR.  
(Electric power distribution)

BARANOVSKIY, B.K.

PHASE I BOOK EXPLOTTATION 949

U.S.S.R. Ministerstvo svyazi. Tekhnicheskoye upravleniye.

Novaya apparatura radiofikatsii gorodov; informatsionnyy sbornik.  
(New Equipment for Urban Radio Systems; Collection of Information)  
Moscow, Svyaz'izdat, 1958. 48 p. (Series: Tekhnika svyazi) 11,800 copies  
printed.

Resp. Ed.: Fursov, V.A.; Tech. Ed.: Mazel', Ye. I.; Ed.: Novikova, Ye.S.

PURPOSE: The monograph may be useful to engineers working in the design of wire communication systems.

COVERAGE: The monograph contains three articles describing some new components of typical wire communication equipment designed for the switching and remote control of various sections of an urban wire communication network. The equipment was developed by the Central Design Bureau of the USSR Ministry of Communication. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Foreword	3
Lipkina, V.A., AVK-1 Equipment for Distribution of Output Power and Feeder Card 1/3 Control	5



New Equipment for Urban Radio Systems (Cont.)

949

The AVK-1 equipment is designed for use at supporting amplifier stations and substations. The author describes the operation of a circuit for automatic switching of loads of a TU-5 power amplifier and discusses a system for protecting and switching on the distribution feeders. She also describes measurement of feeder input resistance and the resistance of feeder insulation. A general view and the method of assembling the AVK-1 equipment are also presented.

Baranovskiy, B.K. UUP-1 Equipment for Remote Control of Amplifier Substations 20

The UUP-1 equipment is designed for controlling two amplifier substations from a central amplifier station. The author describes the system in general and discusses a method of switching on the filament circuit and the plate circuits of TU-5-3 amplifiers. Switching of preamplifier circuits is described and a method of signaling and automatic switching of amplifiers is discussed. A general view and the method of assembling the equipment are also given.

Card 2/3

New Equipment for Urban Radio Systems (Cont.)

949

Kuperman, Ye.I. (Deceased). UKTP-1 Rack for Remote Control and Supervision  
of Transformer Substations

36

The UKTP-1 rack is designed to control six or twelve transformer sub-  
stations. The author gives basic specifications of the rack and de-  
scribes the remote control of main feeders. He also discusses the re-  
mote control of feeders of public-address systems. A general view and  
the method of assembling the equipment are also presented.

AVAILABLE: Library of Congress (TK 6560.R8)

JP/fal  
1-4-59

Card 3/3

AUTHORS: Baranovskiy, B.K.; Lishchinskiy, S.M., TsKB Group Directors. 111-58-7-9/27

TITLE: The PTU-4 Portable Relay Set (Perenosnoye translyatsionnoye ustroystvo tipa PTU-4)

PERIODICAL: Vestnik svyazi, 1958, Nr 7, pp 15-17 (USSR)

ABSTRACT: The PTU-4 portable relay set, devised by the Central Construction Bureau of the Ministry of Communications of the USSR, is described. The set can take 5 microphones and an external line (tape-recorder, relay line, etc.) and from its output feed two connecting lines. Each microphone has a 2-stage amplifier arranged as a separate plug-in unit, feeded its own level control. There are also two 3-stage push-pull line amplifiers. The Nr 5 microphone channel can be linked direct to the studio for purposes of rehearsal or to include the announcer's commentary. An impulsemeter and monitor amplifier are built in for measuring and listening to the amplified signal, either on headphones or through a control set. There is a great degree of standardization of components and a 6N3P tube is used throughout. The set is powered either from AC mains (it contains its own rectifying unit) or from batteries

Card 1/2

The PTU-4 Portable Relay Set

111-58-7-9/27

as a DC reserve supply. Details of the operational switching system and some basic electrical indices are given. There is 1 photo and 1 block diagram.

ASSOCIATION: Ministerstvo svyazi SSSR (Ministry of Communications of the USSR)

1. Communications 2. Radio relay systems--Characteristics

Card 2/2

BARANOVSKIY, B. K.  
o(4)

PHASE I BOOK EXPLOITATION

SOV/2774

Novaya apparatura radioveshchatel'nogo trakta; informatsionnyy sbornik (New Equipment of a Broadcasting System; Information Series) Moscow, Svyaz'izdat, 1959. 56 p. (Series: Tekhnika svyazi) 10,000 copies printed.

Resp. Ed.: V. A. Fursov; Ed. : V. I. Bashchuk; Tech. Ed.: S. F. Karabilova.

PURPOSE: This collection of articles may be useful to radio engineers.

COVERAGE: The authors discuss the following broadcast equipment: PRA-1 panel of a broadcast control room; PFA-1 panel of a speech-broadcast control room; PTU-3 and PTU-4 portable transmitters; and SDS-1 announcer's desk equipment. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Foreword

Card 1/3

3

New Equipment (Cont.)

SOV/2774

Meter, Ch. M. PRA-1 Panel of a Radio Broadcast

• Control Room

4

The author discusses the construction of a PRA-1 panel of a radio-broadcast control room and describes the operation of various circuits in the panel, such as audio-frequency and signalling circuits, linear amplifier, frequency compensating circuit, pulse meter, control amplifier, attenuator, rectifiers and power-supply circuit.

Baranovskiy, B. K. PFA-1 Panel of Speech Broadcast

Control Room

17

The author discusses the construction of a PFA-1 panel of a speech-broadcast control room and describes various circuits in the panel, such as the audio-frequency amplification circuit, microphone amplifier, linear amplifier and the telephone circuit. A brief discussion of the sound level, signalling and power-supply equipment is also presented.

Doroshenko, A. I. PTU-3 Transmitting Equipment

32

Card 2/3

New Equipment (Cont.)

SOV/2774

The author discusses the construction and operation of a PTU-3 transmitter for transmitting speech and outdoor music programs and describes transmitter components.

Lipkina, V. A. PTU-4 Portable Transmitter

41

The author discusses the circuit of a PTU-4 portable transmitter and its components, such as the microphone amplifier, pulse meter, control amplifier and the power-supply circuit.

Meter, Ch. M. SDS-1 Announcer's Desk

52

The author presents a brief description of the equipment of the announcer's desk and discusses its operation.

AVAILABLE: Library of Congress

Card 3/3

JP/mmh  
1-14-60

Baranovskiy, B.K.

809/587

USSR. Ministerstvo svyazi. *Tekhnicheskiye upravleniye*  
 Svyazi i elektrosvyazi i elektromekhanika. Informatsionnyy sbornik.  
 (New Electro-Communication and Power Supply Equipment Collection of  
 Information) Moscow, Svyaz'izdat, 1959. 100 p. (Series: *Tekhnicheskaya svyazi*)  
 13,300 copies printed.

Issued by: V.A. Lipinski; Eds.: Ye.S. Evrilova and N.M. Mordashkina;  
 Tech. Ed.: B.P. Karabikova.

PURPOSE: This collection of articles is intended for technical personnel of  
 the Ministry of Communications USSR and its subordinate telecommunication  
 establishments.

CONTENT: The articles in this collection describe various new pieces of Soviet  
 equipment used in electrical communication systems. They include:  
 broadcast studio equipment, mobile audio amplifiers, transformer cable  
 racks, converters, rectifiers, and switchboards. No personalities are  
 mentioned. References accompany the articles in footnotes.

Meter, Ch.M., and B.K. Baranovskiy. A.C. "Walking Clock" Unit  
 This device provides telephone line service. The author describes its  
 principle of operation, and the block diagram of the unit 24

Metel', Ch. M. 77 - 200 Line Transformer with Lightning Arrester.  
 This power transformer is designed for operation with overhead  
 transmission lines of wire broadcasting systems. The author describes  
 the diagram and design of the transformer 31

Philipov, V.S. Subscribers Telegraph Station of the MSA-M Low Capacity  
 System  
 This station is designed for installation in distant or remote  
 communication centers of the subscribers' automatic telegraph system.  
 Its capacity is 10 subscribers' installations and 3 voice-frequency  
 channels 34

Prud, V.G. VCI Lead-In Cable Cabinet Racks  
 The author lists a variety of racks for connecting balanced cables  
 of varying capacity. A table indicates the types of mounting plates  
 for each rack. The author also describes circuit diagrams and opera-  
 tion of the rack assemblies. 41

Phillipov, V.S. VCI-80 Lead-In Rack  
 The author briefly describes the structure and operation of this rack,  
 which serves for connection and commutation of communication cables  
 and overhead lines, and for protection of station equipment. 46

Proskiy, M.V., G.A. Volkov, and V.D. Shoshankov. Constant Voltage  
 Direct Current Converter with Transistor Triodes  
 These converters provide power supply for communication equipment  
 by means of a single battery. They include a variable frequency converter  
 operating principle, advantages and disadvantages. The applica-  
 tion and components. The results of experiments with 3 types of con-  
 verters are shown in a table. 49

Solov'yev, L.S. VES-96/30 Rectifier Assembly  
 The rectifier serves as a power supply for equipment used in intra-  
 regional and intra-oblast telecommunications and in dial telephone  
 systems. The author gives the circuit diagram and design of the assembly.  
 Diagram and structural details of the new board. 60

Konstantinov, L.S. EMG-1 Combined Switchboard  
 The switchboard controls local subscribers among themselves and connects  
 long distance lines with local telephones among subscribers and with  
 lines of the automatic telephone system. The article describes circuit  
 diagrams of various combinations of connections, structural details of  
 the components and the assemblies as the whole. 66

Vigdorshik, M.M. RCI-M Drilling Rig  
 The rig drills the holes for overhead line poles. The author describes  
 the functional diagram, design, and operation of the assembly. 96

AVAILABLE: Library of Congress

809/587



BARANOVSKIY, B.K., SPERANSKIY, G.N.

Duplex amplifier for a telephone apparatus. Vest.sviazi 20  
no.3:9-10 Mr '60. (MIRA 13:6)

1. Rukovoditel' gruppy Tsentral'nogo konstruktorskogo byuro  
Ministerstva svyazi SSSR (for Baranovskiy). 2. Starshiy tekhnik  
Tsentral'noy mezhdugorodnoy telefonnoy stantsii (for Speranskiy).  
(Telephone)

BARANOVSKIY, Boris Konstantinovich; TUDAROVSKIY, V.P., otv.red.;  
RYAZANTSEVA, M.M., red.; MARKOCH, K.G., tekhn.red.

[A set of small measuring devices] Komplekt malogabaritnykh  
priborov. Moskva, Gos.izd-vo lit-ry po voprosam svyazi i radio,  
1960. 33 p. (MIRA 13:12)

(Electric measurements)

OKUN', Lidiya Moiseyevna; BARNIKOVSKIY, B.K., otv. red.; NOCOVA,  
L.N., red.

[TU-5-4 repeating apparatus] Transliatsionnaia appara-  
tura TU-5-4. Moskva, Aviaz', 1965. 108 p.  
(MIRA 18:9)

KHOLUPYAK, Konstantin Leont'yevich [Kholup'iak, K.L.], kand. sel'khoz.  
nauk; BARANOVSKIY, D.I. [Baranovs'kiy, D.I.], dots., red.;  
VASKOVSKIY, Yu.I. [Vas'kovs'kiy, IU.I.], red.

[More effective forest plantations for erosion control]  
Pidvysshchemmia efektyvnosti protyeroziirnykh lisovykh na-  
sadzhen'. Kyiv, Vyd-vo Ukrain's'koi Akad. sil's'kohospodars'kykh  
nauk, 1961. 153 p. (MIRA 15:3)  
(Erosion control) (Windbreaks, shelterbelts, etc.)

BARMOVSKIY, D. M.

"Diffuse Polyposis of the Straight Collecting Tubules of the Kidney,"  
Khirurgiya, No. 3, 1949. Mbr., Faculty Surgical Clinic 2nd Leningrad  
Med. Inst., -c1949-.

BARANOVSKIY, ~~И~~ D.M.

22045 Baranovskiy, D.M. Klinicheskiye nablyudeniya nad tuberkulozom chervyacheznoye  
otroba v plechenskoy uoblasti. Trachev, delo, 1941, No. 1, str. 557-62

SO: Isopis' Meditsinskoye Sostoyaniya, No. 11, Moskva, 1946.

BARANOVSKIY, E.A. , STEPANO, V. Ye.

Profile of the sodium  $D_1$  line and the gradient of the magnetic field of a sunspot [with summary in English]. Izv.Krym.astrofiz. obser. 21:180-189 '59. (MIRA 13:6)  
(Sunspots)

22383

S/035/61/000/005/016/042  
A001/A101

3,1540

AUTHOR: Baranovskiy, E.A.

TITLE: On depth variation of ratios of coefficients of selective and continuous absorption in a sunspot

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 5, 1961, 53, abstract 5A348 ("Izv. Krymsk. astrofiz. observ.", 1960, v. 23, 304-310, Engl. summary)

TEXT: Profiles of the lines of Mg  $\lambda$  5173 and Fe  $\lambda$  5434 in sunspot spectrum are investigated. The observed profiles of the mentioned lines differ strongly from theoretical ones calculated on the basis of the existing sunspot models. It is shown that for the case of  $\eta_0 = \text{const}$  ( $\eta_0$  is the ratio of coefficients of selective and continuous absorption) it is impossible to bring into accord the theory and observations by selection of physical parameters characterizing the sunspot structure. The variation of  $\eta_0$  with the depth, necessary for the explanation of the profiles observed, is calculated. In addition to the profiles of the

Card 1/2



2238B

S/035/61/000/005/016 '042  
A001/A101

On depth variation of ratios ...

mentioned lines, also the profiles of the line  $D_1$  Na in a sunspot, obtained by the author and V.Ye. Stepanov (RZhAstr, 1960, no. 12, 12291) are used. The magnitude of  $\eta_0$  proved to be increasing with the depth by 2 or 3 orders. There are 7 references.

Author's summary

[Abstracter's note: Complete translation]

Card 2/2

SAZONOV, N.A., akademik; BARANOVSKIY, E.V., inzh.; SHILO, B.D., inzh.

Use of deeply-placed electrodes for grounding rural electrical systems. Mekh.i elek.sots.sel'khoz. 20 no.4:54-56 '62,  
(MIRA 15:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva nechernozemnoy zony SSSR.
2. Akademiya nauk Belorusskoy SSR (for Sazonov).  
(Rural electrification) (Electricity in agriculture)



TOPCHIYEV, A.V., professor; KLORIK'YAN, S.Kh., inzhener; MALKHASYAN, R.V.,  
inzhener; BARANOVSKIY, F.I., inzhener.

Persistently improve methods of coal mining. Mekh.trud.rab. 11  
no.3:33-36 Mr '57. (MLRA 10:5)  
(Coal mining machinery)

BRUK, Ya.S.; SOLOV'YEV, G.A.; BARANOVSKIY, F.I., otv.red.; KOLOMIYTSEV,  
A.D., red.izd-va; ALADOVA, Ye.I., tekhn.red.

[Machinery for the coal mining industry; a catalog] Gornye  
mashiny dlia ugol'noi promyshlennosti; al'bom. Moskva, Ugle-  
tekhizdat, 1958. 231 p. (MIRA 12:4)  
(Coal mining machinery)

TOPCHAYEV, A.V., prof., red.; BARANOVSKIY, F.I., inzh., otv. red.; ARZAMASOV,  
N.A., red. izd-va.; ALADOVA, Ye.I., tekhn. red.

[Mechanization of coal mining abroad; survey of foreign machinery  
used in stoping] Mekhanizatsiia vyemki uglia za rubezhom; obzor  
zarubezhnykh sredstv mekhanizatsii ochistnykh robot. Moskva,  
Ugletekhnizdat, 1958. 543 p. (MIRA 11:10)  
(Coal mining machinery)

TOPCHYEV, A.V., prof., obshchiy red.; GRIDIN, A.D., inzh., red.;  
KLORIK'YAN, S.Kh., inzh., red.; KHORIN, V.N., kand.tekhn.nauk,  
red.; BARANOVSKIY, F.I., otv.red.; D'YAKOVA, G.B., red.  
izd-va; ALADOVA, Ye.A., tekhn.red.; KOROVENKOVA, Z.A.,  
tekhn.red.

[Mechanization in coal mines] Mekhanizatsia na ugol'nykh  
shakhtakh. Moskva, Ugletekhizdat, 1959. 464 p. (MIRA 12:6)  
(Coal mining machinery)

ALEKSANDROV, B.F., inzh.; BAILYKOV, V.M., inzh.; BARANOVSKIY, F.I., inzh.;  
BOGUTSKIY, N.V., inzh.; BUN'KO, V.A., kand.tekhn.nauk, dotsent;  
VAVILOV, V.V., inzh.; VOLOTKOVSKIY, S.A., prof., doktor tekhn.nauk;  
GRIGOR'YEV, L.Ya., inzh.; GRIDIN, A.D., inzh.; ZARMAN, L.N., inzh.;  
KOVALEV, P.F., kand.tekhn.nauk; KUZNETSOV, B.A., kand.tekhn.nauk,  
dotsent; KUSHNITSYN, G.I., inzh.; LATYSHEV, A.F., inzh.; LEYBOV,  
R.M., doktor tekhn.nauk, prof.; LEYTES, Z.M., inzh.; LISITSYN, A.A.,  
inzh.; LOKHANIN, K.A., inzh.; LYUBIMOV, B.N., inzh.; MASHEKOVICH,  
K.S., inzh.; MALKHAS'YAN, R.V.; MILOSERDIN, M.M., inzh.; MITNIK,  
V.B., kand.tekhn.nauk; MIKHEYEV, Yu.A., inzh.; PARAMONOV, V.I.,  
inzh.; ROMANOVSKIY, Yu.G., inzh.; RUBINOVICH, Ye.Ye., inzh.;  
SAMOYLYUK, N.D., kand.tekhn.nauk; SMEKHOV, V.K., inzh.; SMOLDY-  
REV, A.Ye., kand.tekhn.nauk; SNAGIN, V.T., inzh.; SNAGOVSKIY,  
Ye.S., kand.tekhn.nauk; FEYGIN, L.M., inzh.; FRENKEL', B.B., inzh.;  
FURMAN, A.A., inzh.; KHORIN, V.N., dotsent, kand.tekhn.nauk; CHET-  
VEROV, B.M., inzh.; CHUGUNIKHIN, S.I., inzh.; SHELKOVNIKOV, V.N.,  
inzh.; SHIRYAYEV, B.M., inzh.; SHISHKIN, N.F., kand.tekhn.nauk;  
SHPII'BERG, I.L., inzh.; SHORIN, V.G., dotsent, kand.tekhn.nauk;  
SETOKMAN, I.G., doktor tekhn.nauk; SHURIS, N.A., inzh.; TERPIGOREV,  
A.M., glavnyy red.; TOPCHIYEV, A.V., otv.red.toma; LIVSHITS, I.I.,  
zamestitel' otv.red.; ABRAMOV, V.I., red.; LADYGIN, A.M., red.;  
MOROZOV, R.N., red.; OZERNOY, M.I., red.; SPIVAKOVSEIY, A.O.,  
red.; FAYBISOVICH, I.L., red.; ARKHLANGEL'SKIY, A.S., inzh., red.;  
(Continued on next card)



ALEKSANDROV, B.F.---(continued) Card 2.

BELYAYEV, V.S., inzh., red.; BUKHANOVA, L.I., inzh., red.; VLASOV, V.M., inzh., red.; GLADILIN, L.V., prof., doktor tekhn.nauk, red.; GREBTSOV, N.V., inzh., red.; GRECHISHKIN, F.G., inzh., red.; GONCHAREVICH, I.F., kand.tekhn.nauk, red.; GUDALOV, V.P., kand.tekhn.nauk, red.; IGNATOV, N.N., inzh., red.; LOMAKIN, S.M., dotsent, kand.tekhn.nauk, red.; MARTYNOV, M.V., dotsent, kand.tekhn.nauk, red.; POVOLOTSKIY, I.A., inzh., red.; SVETLICHNYY, P.L., inzh., red.; SAL'TSEVICH, L.A., kand.tekhn.nauk, red.; SPERANTOV, A.V., kand.tekhn.nauk, red.; SHETLAR, G.A., inzh., red.; ABARBARCHUK, F.I., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskiy spravochnik. Glav.red.A.M.Terpigorev. Chleny glav.redaktsii A.I. Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.7. [Mining machinery] Gornye mashiny. Redkol.toma A.V.Topchiev i dr. 1959. 638 p. (Mining machinery) (MIRA 13:1)

VAVILOV, Vyacheslav Viktorovich; ORLOV, Anatoliy Aleksandrovich;  
BARANOVSKIY, F.I., otv. red.; SHKLYAR, S.Ya., tekhn. red.  
~~MAKSIMOVA, V.V., tekhn. red.~~

[KM-9 and KM-9 coal-mining units] Ugledobyvaiushchie kom-  
pleksy KM-9 i KM-9D. Moskva, Gosgortekhzdat, 1963. 111 p.  
(MIRA 16:9)

(Coal mining machinery)

BOBKOV, Vasilii Ivanovich; POCHUYEV, Yuriy Grigor'yevich; BUROV,  
Georgiy Georgiyevich; BELOV, Nikolay Pavlovich; NOSOV,  
Yuriy Pavlovich; SEROV, Vyacheslav Alekseyevich;  
BARANOVSKIY, F.I., otv. red.; KOVAL', I.V., red. izd-va;  
IL'INSKAYA, G.M., tekhn. red.

[OMKT mechanized stoping unit] Ochistnoi mekhanizirovannyi  
kompleks OMKT; rukovodstvo po ekspluatatsii i remontu. Mo-  
skva, Gosgortekhzdat, 1963. 242 p. (MIRA 16:8)  
(Stoping (Mining))--Equipment and supplies)

88868

S/044/60/000/007/022/058  
C111/C222

16.3500

AUTHOR: Baranovskiy, F.T.

TITLE: Mixed problem for a linear hyperbolic equation of second order which degenerates in the initial plane

PERIODICAL: Referativnyy zhurnal. Matematika, no.7, 1960, 107.  
Abstract no.7663. Uch.zap.Leningr.gos.ped.in-ta im.A.I. Gertsena, 1958, 183, 23-58

TEXT: The author considers the correctness of the problem

$$\varphi(t)u_{tt} = \frac{\partial}{\partial x_j} (a_{ij} \frac{\partial u}{\partial x_i}) + b_i \frac{\partial u}{\partial x_i} + cu + f;$$

$a_{ij}, b_i, c, f$  are functions of  $x_1, x_2, \dots, x_m, t$ ;  $a_{ij} = a_{ji}$ ;  $u|_S = 0$ ;

$u|_{t=0} = \varphi(x_1, \dots, x_m)$ ;  $u_t|_{t=0} = \psi(x_1, \dots, x_m)$ . The satisfaction of the

equation and of the boundary and initial conditions is understood in the generalized sense. Under certain conditions for the smoothness of the coefficients of the equation, of the free term, and of the initial data the author proves the correctness of the formulated mixed problem

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Mixed problem for a linear....

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if  $\varphi(t)$  for  $t \rightarrow 0$  behaves like  $t^\alpha$  ( $0 \leq \alpha \leq 1$ ). The proof of the correctness is based on estimations of energy type.

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

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Card 2/2

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 0111/0222

163500

AUTHOR: Baranovskiy, P.T.

TITLE: The Cauchy problem for a linear hyperbolic equation of second order which degenerates in the initial plane

PERIODICAL: Referativnyy zhurnal. Matematika, no. 6, 1960, 102; abstract no. 8940. Uch. zap. Leningr. gos. ped. in-ta im. A.S. Gertsena, 1958, 166, 227-254

TEXT: The author considers the Cauchy problem with the initial conditions

$$u|_{t=0} = \varphi_0(x_1, x_2, \dots, x_n); \quad \frac{\partial u}{\partial t}|_{t=0} = \varphi_1(x_1, x_2, \dots, x_n) \quad (1)$$

for the equation

$$\varphi(t) \frac{\partial^2 u}{\partial t^2} = \sum_{j=1}^n a_{1j} \frac{\partial^2 u}{\partial x_1 \partial x_j} + \sum_{i=1}^n b_i \frac{\partial u}{\partial x_i} + cu + f = Lu + f, \quad (2)$$

the coefficients of which satisfy the following conditions: a) for  $t > 0$ ,  $\varphi(t)$  is continuous together with the derivatives up to the order

$[3n/2] + 6$ , ( $\varphi(t) \in C^{[3n/2] + 6}$ ), for small  $t$  it holds  $c_1 t^{\alpha} \varphi(t) \leq c_2 t^{\alpha}$ ,

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S/044/60/G00/008/019/035  
C111/C222

The Cauchy problem for a linear

$c_3 t^{\alpha-1} \frac{\partial u}{\partial t} + c_4 t^{\beta-1} \frac{\partial u}{\partial x}$ , where  $c_k$  ( $k=1,2,3,4$ ) are constants. b) for

the functions  $a_{ij}, b_i, c, f$  of  $t, x_1, x_2, \dots, x_n$  it holds  $a_{ij} \in C^{[3n/2]+6}$ ,

$b_i, c, f \in C^{[3n/2]+5}$ , where in every point  $\sum_{i,j=1}^n a_{ij} \eta_i \eta_j > \delta(t) \sum_{i=1}^n \eta_i^2$ ,

$\delta(t) > 0, t \geq 0$ . For  $0 < \alpha < 1$  and  $\psi_0, \psi_1 \in C^{[3n/2]+7}$  the author states the

uniqueness, existence, and correctness of the regular solution of the problem. The given proof of uniqueness, existence and correctness of the problem (1)-(2) remains true if a)  $1 < \alpha < 2$  and  $\psi_0 = 0$ ; b)  $1 < \alpha < 2$  and  $[L \psi_0 + f]_{t=0} = 0$ ; c) the quadratic form  $\sum_{i,j=1}^n a_{ij} \eta_i \eta_j$  degenerates

but not strongly, i.e.  $\delta(t) = O(t^m)$ ,  $m < 0$ . With the aid of a separation of the variables, for the equation  $t^2 \frac{\partial^2 u}{\partial t^2} = \partial^2 u / \partial x^2$  in the rectangle  $0 < x < 1, 0 < t < T$  the author solves the mixed problem with the boundary conditions  $u(0,t) = u(1,t) = 0$  and the initial conditions  
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C111/C222

The Cauchy problem for a linear

$u|_{t=0} = \psi_0(x)$ ,  $\partial u / \partial t|_{t=0} = \psi_1(x)$ , where  $\psi_0, \psi_1 \in C^{(1)}(0,1)$  and

vanish at the final points of the interval. The problem has a unique solution for  $0 < \alpha < 1$ , while for  $\alpha \geq 1$  it is possible to satisfy the initial conditions in the classical sense. Herefrom the author concludes that also for the equation (2) for  $\alpha < 1$  and the general initial conditions (1) the Cauchy problem ought not to be established.

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

Card 3/3



BARANOVSKIY, F.T.

Mixed problem of a hyperbolic degenerating equation. *Izv. vys.*  
ucheb. zav.; mat. no. 3:30-42 '60. (MIRA 13:12)

1. Severo-Osetinskiy pedagogicheskiy institut imeni K.L. Khetagurova.  
(Differential equations)

88176

S/140/60/000/006/002/018

C111/C222

16.3500

AUTHOR: Baranovskiy, F.T.

TITLE: The Cauchy Problem for an Equation of the Type of Euler-Darboux-Poisson and for the Degenerated Hyperbolic Equation

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1960, No. 6, pp. 11 - 23

TEXT: Theorem : Let the coefficients of the equation

$$(4) \quad \frac{\partial^2 u}{\partial t^2} - \sum_{i,j=1}^n a_{ij} \frac{\partial^2 u}{\partial x_i \partial x_j} + \frac{b}{t} \frac{\partial u}{\partial t} + \sum_{i=1}^n b_i \frac{\partial u}{\partial x_i} + cu = f$$

satisfy the conditions : the  $a_{ij}$  have continuous derivatives up to the order

$\left[ \frac{3n}{2} \right] + 6$  ;  $b, b_i, c, f$  have continuous derivatives up to the order

$\left[ \frac{3n}{2} \right] + 5$  . The initial conditions

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The Cauchy Problem for an Equation of the Type of Euler-Darboux-Poisson  
and for the Degenerated Hyperbolic Equation

$$(2) \quad u|_{t=0} = \psi(x_1, x_2, \dots, x_n), \quad \left. \frac{\partial u}{\partial t} \right|_{t=0} = 0$$

have continuous derivatives up to the order  $\left[ \frac{3n}{2} \right] + 7$ . Let  $b(t, x_1, x_2, \dots, x_n) \geq 0$ . Then there exists exactly one function  $u(t, x_1, x_2, \dots, x_n)$  with continuous second derivatives which satisfies (4) and (2). Then the Cauchy problem is considered for

$$(30) \quad \varphi(t) \frac{\partial^2 u}{\partial t^2} - \sum_{i,j=1}^n a_{ij} \frac{\partial^2 u}{\partial x_i \partial x_j} + \sum_{i=1}^n b_i \frac{\partial u}{\partial x_i} + b \frac{\partial u}{\partial t} + cu = f$$

where

$$(31) \quad c_1 t^\alpha \leq \varphi(t) \leq c_2 t^\alpha, \quad c_3 t^{\alpha-1} \leq \varphi'(t) \leq c_4 t^{\alpha-1}.$$

By introducing the new variable

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C111/C222

The Cauchy Problem for an Equation of the Type of Euler-Darboux-Poisson  
and for the Degenerated Hyperbolic Equation

$$(33) \quad \tau = \psi(t) = \int \psi(v)^{-\frac{1}{2}} dv$$

(30) is transformed to an equation of the type (4) so that the assertions  
of the above theorem can analogously be applied to (30).  
The author mentions M.B. Kapilevich, S.L. Sobolev and K.I. Karapetyan.  
There are 7 references : 4 Soviet, 1 Brazilian, 1 German and 1 American.

ASSOCIATION: Severo-Osetinskiy pedagogicheskiy institut imeni K.L.  
Khetagurov (North Ossetian Pedagogical Institute imeni  
K.L. Khetagurov)

SUBMITTED: December 17, 1958

Card 3/3

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37252  
S/042/62/017/002/001/002  
B112/B108

AUTHOR: Baranovskiy, F. T.

TITLE: Cauchy's problem for a hyperbolic second-order equation with a singularity in the coefficient

PERIODICAL: Uspekhi matematicheskikh nauk, v. 17, no. 2 (104), 1962, 167-174

TEXT: For the problem  $\psi(y-x)\partial^2 u/\partial x\partial y = a(x,y)\partial u/\partial x + b(x,y)\partial u/\partial y + d(x,y)u + f(x,y)$ , (3),  $\lim_{y-x \rightarrow +0} u = \psi_1(x)$ ,  $\lim_{y-x \rightarrow +0} \partial u/\partial y = \psi_2(x)$ , (4),

the following theorem is demonstrated: The equation (3) with the initial conditions (4) has an unambiguous solution  $u$  with continuous derivatives  $\partial u/\partial x$ ,  $\partial u/\partial y$ ,  $\partial^2 u/\partial x\partial y$  for  $y - x > 0$ , if the following two conditions are fulfilled: 1.  $\psi(y-x)$ ,  $\psi'(y-x)$ , ...,  $\psi^{VII}(y-x)$  are continuous functions for  $y - x > 0$ , and  $c_1(y - x)^\alpha \leq \psi(y - x) \leq c_2(y - x)^\alpha$ ,

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Cauchy's problem for a hyperbolic ...

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$c_3(y - x)^{\alpha-1} \leq \varphi'_y(y - x) \leq c_4(y - x)^{\alpha-1}$ , where  $c_1, c_2, c_3, c_4$  are positive constants. 2. The coefficients  $a, b, d$  and the function  $f$  have continuous derivatives up to the sixth order, and the functions  $\psi_1$  and  $\psi_2$  up to the seventh order.

SUBMITTED: November 25, 1959

Card 2/2

BARANOVSKIY, F.T.

Cauchy problem for a strongly degenerate hyperbolic equation.  
Sib. mat. zhur. 4 no.5:1000-1011 S-0 '63. (MIRA 16:12)

BARANOWSKIY, F.T.

(Rigor)

Differential properties of the solution to a mixed problem  
for a degenerate hyperbolic equation. Izv. vys. shk. mat. 3  
mat. no. 6:21-24 '63 (MIRA 1783)



BARANOVSKIY, F.T.

Mixed problem for a hyperbolic equation of the second order with  
a singularity in the coefficient. Pribl.metod.resn.diff.urav.  
no.2:3-22 '64. (MIRA 18:4)

BARANOVSKIY, F.T. (Kiyev)

Differential properties of the solution to a mixed problem  
for a strongly degenerate hyperbolic equation. Izv. vys.  
ucheb. zav.; mat. no.3&17-27 '64. (MIRA 17:12)

BARANOVSKIY, G.Ya., mayor med. sluzhby; KHUSNITDINOV, A., leytenant med. sluzhby

Ampule for blood transfusion. Voen. med. zhur. no.1:83-84 Ja '57  
(BLOOD TRANSFUSION, apparatus and instruments, (MIRA 12:7)  
ampule (Rus))

BARANOVSKIY, I, [Baranovs'kyi, I.], inzh.; KONSTANTINOV, V., inzh.

Use of fiberglass to make roofing materials. Bud. mat. i  
konstr. 4 no.2:31-32 Mr-Apr '62. (MIRA 15:9)  
(Glass fibers) (Roofing)

BARANOVSKIY, I.: KONDRATENKO, N.

New principle for television image projection (from "Journal of the  
Television Society" 9, no.4, 1959). Radio no.3:61 Mr '61.

(Television)

(MIRA 14:8)

5(4)

AUTHORS:

Babayeva, A. V., Baranovskiy, I. B. SOV/78-4-4-8/44

TITLE:

The Oxidation of Pyridine-containing Complex Compounds of Divalent Cobalt (Okisleniye piridinsoderzhashchikh kompleksnykh soyedineniy dvukhvalentnogo kobal'ta)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol. 4, Nr 4, pp 755-760 (USSR)

ABSTRACT:

The oxidation processes of  $\text{CoPy}_2\text{Cl}_2$ ,  $\text{CoPy}_2\text{Br}_2$ ,  $\text{CoPy}_2(\text{NO}_2)_2$ ,  $\text{CoPy}_4\text{Br}_2$  and  $\text{CoPy}_4\text{Cl}_2$  with chlorine and bromine were investigated in alcoholic solution. It was found that the compounds  $\text{CoPy}_2\text{Cl}_2$  and  $\text{CoPy}_2(\text{NO}_2)_2$  are transformed to the compound  $(\text{PyH})_2[\text{CoCl}_4]$  by the effect of chlorine. When insufficient amounts of chlorine are introduced into the solutions of  $\text{CoPy}_4\text{Cl}_2$  the compound  $\text{Co}_2\text{Py}_5\text{Cl}_5$  is produced in the form of blue-green, needle-shaped crystals with the refractive indices  $n_g = 1.698$  and  $n_p = 1.680$ . The crystals are difficultly soluble in water, but dissolve easily in absolute methyl alcohol. The oxidation of  $\text{CoPy}_4\text{Cl}_2$  leads to the formation of

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The Oxidation of Pyridine-containing Complex  
Compounds of Divalent Cobalt

SCV/73 4-4-8/44

$[\text{CoPy}_4\text{Cl}_2]\text{Cl}$ . This compound crystallizes with 6 molecules of water. The compound is anhydrous after recrystallization from absolute alcohol. The oxidation of  $\text{CoPy}_2\text{Br}_2$ ,  $\text{CoPy}_2\text{Cl}_2$  and  $\text{CoPy}_4\text{Br}_2$  with bromine produces the polybromides  $[\text{CoPy}_4\text{Br}_2]_n\text{Br}_2$  and  $[\text{CoPy}_4\text{Cl}_2]_n\text{Br}_2$ . Treatment of  $[\text{CoPy}_4\text{Br}_2]_n\text{Br}_2$  with potassium iodide solution transforms this compound into the polyiodide  $[\text{CoPy}_4\text{I}_2]_n\text{I}_2$ , a black powder which turns brown and then green when exposed to the air. By reduction of the polybromides and of  $[\text{CoPy}_4\text{Cl}_2]\text{Cl}$  the following monoamines were produced:  $\text{PyH}[\text{CoPyBr}_3]$ ,  $\text{PyH}[\text{CoPyClBr}_2]$ , and  $\text{PyH}[\text{CoPyCl}_3]$ . The complex compounds  $[\text{CoPy}_4\text{Cl}_2][\text{CoPyCl}_3]$  and  $[\text{CoPy}_4\text{Cl}_2][\text{CoPyClBr}_2]$  were synthesized for the first time. For the first time hexapyridine cobalt bromide  $[\text{CoPy}_6]\text{Br}_2$  was isolated, in the form of red-violet crystals.

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The Oxidation of Pyridine-containing Complex  
Compounds of Divalent Cobalt

SOV/78-4-4-8/44

A table gives the results of the molecular weight determination for the compound  $\text{CoPy}_2\text{Br}_3$  by the Rast method. There are 1 table and 10 references, 3 of which are Soviet.

SUBMITTED: January 13, 1958

Card 3/3



5(2)

AUTHORS:

Babayeva, A. V., Baranovskiy, I. B.

SOV/78-4-8-38/43

TITLE:

On Monoamines of Divalent Cobalt. (O monoaminakh dvukhvalentnogo kobal'ta)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 8, pp 1931-1932 (USSR)

ABSTRACT:

The substitution reactions in the inner sphere of the tetrahedral complex  $\text{PyH}[\text{CoPyCl}_3]$  (Py = pyridine) were investigated for the production of monopyridine compounds with different acid substituents. The crystallizing compounds  $\text{PyH}[\text{CoPyBr}_2]$  and  $\text{PyH}[\text{CoPyJ}_2]$  were obtained. In the paper by L. Katzin and E. Gebert (Ref 2) bands at 595 and 665  $\mu$  were observed in the spectrum of solutions of  $\text{CoCl}_2$ , LiCl and pyridine in acetone which were ascribed to the ion  $[\text{CoPyCl}_3]^+$ . The spectrum of an acetone solution of  $\text{PyH}[\text{CoPyCl}_3]$  recorded by the authors showed the same bands. In the substitution of chlorine by bromine and iodine a bathochromic shifting takes place in the

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On Monoamines of Divalent Cobalt.

SOV/78-4-8-38/43

spectrum (Fig 1). With potassium thiocyanate the compounds  $\text{CoPy}_2(\text{NCS})_2$  and  $(\text{PyH})_2[\text{Co}(\text{NCS})_4]$  were obtained. The reaction between  $\text{PyH}[\text{CoPyCl}_3]$  with sodium or silver nitrite yielded the compound  $\text{CoPy}_2(\text{NO}_2)_2$ . As was described in an earlier paper (Ref 3) the anion  $[\text{CoPyCl}_3]^-$  and the cation  $[\text{CoPy}_4\text{Cl}_2]^+$  produce the difficultly soluble compound  $[\text{CoPy}_4\text{Cl}_2][\text{CoPyCl}_3]$ . This compound may be obtained also by mixing the alcoholic solutions of  $[\text{CoPy}_4\text{Cl}_2]\text{Cl}$  and  $\text{CoPy}_2\text{Cl}_2$ . By using this reaction the complex compound was obtained with a monoquinoline-anion:  $[\text{CoPy}_4\text{Cl}_2][\text{CoQuinCl}_3]$ . The attempt of substituting the pyridonium ion in  $\text{PyH}[\text{CoAminX}_3]$  by another cation as  $[\text{CoPy}_4\text{Cl}_2]^+$  failed because either pyridine is substituted in the anion or because unstable compounds are formed. There are 1 figure and 3 references, 1 of which is Soviet.

SUBMITTED:  
Card 2/2

March 5, 1959

5.2620

69057

AUTHORS: Babayeva, A. V., Baranovskiy, I. B. S/078/60/005/03/044/048  
B004/B005

TITLE: Complex Compounds of Bivalent Cobalt With Different Amines in the  
Inner Sphere

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 3, pp 749-751  
(USSR)

ABSTRACT: The authors give a short survey of publications on the complex  
compounds of Co(II) with pyridine (Py), hydrazine, ethylene di-  
amine (En), and thiourea (Thio), and mention M. G. Akhmedli  
and E. A. Bashkirov (Ref 7). They produced the compound  
CoPyThio<sub>2</sub>Cl<sub>2</sub> by boiling a solution of CoPy<sub>2</sub>Cl<sub>2</sub> in absolute  
methyl alcohol with thiourea. The yield was 91.2%. The compound  
melts under decomposition at 107 - 109°. Its blue crystals sug-  
gest a tetrahedral structure with the coordination formula  
[CoPyThio<sub>2</sub>Cl]Cl. The molecular electrical conductivity in methyl  
alcohol is indicated. Sodium rhodanide causes a transformation  
into a mixture of CoPy<sub>2</sub>(NCS)<sub>2</sub> and CoThio<sub>2</sub>(NCS)<sub>2</sub>. CoPyThio<sub>2</sub>Br<sub>2</sub>  
was produced in the same manner. The compound CoPyEnCl<sub>2</sub>.H<sub>2</sub>O was

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Complex Compounds of Bivalent Cobalt With Different Amines in the Inner Sphere

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B004/B005

obtained by dropwise addition of alcoholic solution of ethylene-diamine hydrate to  $\text{CoPy}_2\text{Cl}_2$  dissolved in methyl alcohol. According to measurements by V. I. Belova, this compound is paramagnetic, i.e. a compound of  $\text{Co(II)}$ . The molecular electrical conductivity in methyl alcohol is indicated. In alcoholic solution,  $\text{CoPyEnCl}_2 \cdot \text{H}_2\text{O}$  behaves like a two-ion electrolyte, in aqueous solution like a three-ion electrolyte. The pink-colored compound has an octahedral structure, and probably the coordination formula  $[\text{CoPyEnH}_2\text{OCl}_2]$ . There are 10 references, 1 of which is Soviet.

ASSOCIATION:

Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova  
Akademii nauk SSSR  
(Institute of General and Inorganic Chemistry imeni N. S. Kurnakov  
of the Academy of Sciences, USSR)

SUBMITTED:

October 14, 1959

Card 2/2

DR. MELVA, A.V.; BARANOVSKIY, I.B.

Tripyridine complex compounds of trivalent cobalt. Zhur. neorg.  
khim. 6 no.1:225-227 '61. (MIRA 14:2)  
(Cobalt compounds) (Pyridine)

BABAYEVA, A.V.; BARANOVSKIY, I.B.

Transeffect of some additives in trivalent cobalt complex compounds.  
Zhur.neorg.khim. 6 no.8:1786-1790 Ag '61. (MIRA 14:8)  
(Cobalt compounds)

BABAYEVA, A.V.; BARANOVSKIY, I.B.

Complex compounds of cobalt (III) with a sulfite group in the  
inner sphere. Zhur.neorg.khim. 7 no.4:783-790 Ap '62.

(MIRA 15:4)

(Cobalt compounds) (Sulfites)

BABAYEVA, A.V.; KHARITONOV, Yu.Ya.; BARANOVSKIY, I.B.

Infrared absorption spectra of cobalt (III) complex compounds  
with an inner sphere sulfite group. Zhur.neorg.khim. 7 no.6:  
1247-1257 Je '62. (MIRA 15:6)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova  
AN SSSR.

(Cobalt compounds--Spectra)



BABAYEVA, A.V.; BARANOVSKIY, I.B.; AFANAS'YEVA, G.G.

Reaction of sodium nitrocobaltate with pyridine. Dokl. AN SSSR  
143 no.3:587-589 Mr '62. (MIRA 15:3)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova  
AN SSSR, Predstavleno akademikom I.I.Chernyayevym.  
(Sodium nitrocobaltate)(Pyridine)

BABAYEVA, A.V.; BARANOVSKIY, I.B.; AFANAS'YEVA, G.G.

Interaction of the disodium salt of ethylenediaminetetraacetic acid with complex compounds of cobalt (III). Zhur. neorg. khim. 8 no.6:1527-1529 Je '63. (MIRA 16:6)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

(Acetic acid) (Cobalt compounds)

BABAYEVA, A.V.; AFANAS'YEVA, G.G.; BARANOVSKIY, I.B.

Reaction of nickel acetate with ethylenediamine and potassium  
nitrite. Zhur. neorg. khim. 9 no.5:1303-1304 My '64.  
(MIRA 17:9)

BARANOVSKIY, I.B.; BABAYEVA, A.V.

Complex compounds of trivalent cobalt with cyano groups.  
Zhur. neorg. khim. 9 no.9:2163-2169 S '64.

(MIRA 17:11)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova  
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