

URVAYEV, V.A., kand.tekhn.nauk, otv.red.; ALEKIN, O.A., red.; VELIKAI'OV,
M.A., red.; BLIZNYAK, Ye.V., red.; BORSUK, O.N., kand.geogr.nauk,
red.; DAVIDOV, L.K., red.; DOMANITSKIY, A.P., red.; KALININ, G.P.,
red.; KRITSKIY, S.N., red.; KUDELIN, B.I., red.; MANOIM, L.F., red.;
MENKIEL', M.F., red.; ORLOV, B.P., red.; POPOV, I.V., red.; PROSKU-
RYAKOV, A.K., red.; SOKOLOVSKIY, D.L., red.; SPENGLER, O.A., red.;
CHEBOTAREV, A.I., red.; CHERKAVSKIY, S.K., red.; GROSSMAN, R.V., red.;
SERGEYEV, A.N., tekhn.red.

[Proceedings of the third All-Union Hydrological Congress] Vsesoiuznyi
gidrologicheskii s"ezd. 3rd, Leningrad, 1957. Trudy. Leningrad, gidro-
meteor. izd-vo. Vol.1 [General information, decisions, and papers
presented in plenary sessions] Obshchie svedeniya, resheniya i ple-
narnye doklady. 1958. 242 p. (MIRA 12:1)
(Hydrology--Congresses)

3(0)

PHASE I BOOK EXPLOITATION

SOV/1282

Davydov, Lev Konstantinovich and Konkina, Nina Geogriyevna

Obshchaya gidrologiya (General Hydrology) Leningrad, Gidrometeoizdat, 1958.
486 p. 3,000 copies printed.

Ed.: Mironenko, Z.I.; Tech. Eds.: Soloveychik, A.A. and Flaum, M.Ya.

PURPOSE: This textbook is intended for students of hydrology at the university level.

COVERAGE: This textbook discusses the principles of hydrology, its subdivisions, and its relation to other sciences. It describes the chemical-physical properties of water, circulation in nature, the hydrology of seas, rivers, glaciers, lakes and swamps, and subsurface drainage. The authors thank Professor S.V. Kalesnik, Ye.V. Bliznyak, B.I. Kudelin, B.P. Orlov, and Docent B.B. Bogoslovskiy for their assistance. There are 193 diagrams and 35 Soviet references.

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DAVIDOV, L.K.

The Third All-Union Hydrological Congress. Vest. LGU 13 no.6:149-150
'58. (MIRA 11:5)

(Hydrology--Congresses)

DAVYDOV, L.K.

Approximate method for calculating seiches. Vest.LGU 13 no.24:97-104
'58. (MIRA 12:4)

(Seiches)

DAVYDOV, L.K., prof., red.; KALESNIK, S.V., prof., red.; KORCHAGIN, A.A.,
prof., red.; SEMEVSKIY, B.N., prof., red.; ZUBKOV, A.I., dotsent,
red.; LESHEVICH, V.V., dotsent, red.

[The northwest; reports of the scientific session of 1959] Severo-
Zapad; doklady nauchnoi sessii 1959 g. Leningrad, 1959. 136 p.
(MIRA 13:3)

(Russia, Northwestern--Physical geography)

BORSUK, O.N., kand.geograf.nauk; URYVAYEV, V.A., otv.red.; DAVYDOV, L.K.,
prof., doktor geograf.nauk, red.toma; SHATILINA, M.K., red.;
BRAYNINA, M.I., tekhn.red.

[Transactions of the Third All-Union Hydrological Congress,
Leningrad, 1957] Trudy III Vsesoiuznogo gidrologicheskogo
s"ezda. Leningrad, Gidrometeor.izd-vo, Vol.7. [Section of
General Hydrology] Sektsiia obshchei gidrologii. 1959. 323 p.
(MIRA 13:1)

(Hydrology--Congresses)

GAVRILOV, Aleksandr Mikhailovich; POPOV, Igor' Vladimirovich;
ZVORYKIN, K.A., otv.red.; DAYDOV, L.K., prof., red.; YASNO-
GORODSKAYA, M.M., red.; SERGEYEV, A.B., tekhn.red.

[Hydrology and the national economy] Hidrologia i narodnoe
khoziaistvo. Pod red. L.K.Davydova. Leningrad, Gidrometeor.
izd-vo, 1960. 182 p. (MIRA 13:8)
(Hydrology--Research)

FEDOROV, N.N., kand.tekhn.nauk; POPOV, I.V., kand.geogr.nauk; BORSUK, O.N.,
kand.geogr.nauk; GRUSELEVSKIY, M.S., kand.tekhn.nauk; VELIKANOV,
M.A., prof., doktor tekhn.nauk, red.(Moskva); URYVAYEV, V.A., otv.
red.; ALEKIN, O.A., red.; BLIZNYAK, Ye.V., red. [deceased];
BORSUK, O.N., red.; DAVYDOV, L.K., red.; DOMANITSKIY, A.P., red.;
KALININ, G.P., red.; KRITSKIY, S.N., red.; KUDELIN, B.I., red.;
MANOIM, L.F., red.; MENKEL', M.F., red.; ORLOV, B.P., red.;
PROSKURYAKOV, A.K., red.; SOKOLOVSKIY, D.L., red.; SPENGLER, O.A.,
red.; CHEBOTAREV, A.I., red.; CHERKOVSEKIY, S.K., red.; SHATILINA,
M.K., red.; VLADIMIROV, O.G., tekhn.red.

[Transactions of the Third All-Union Hydrological Congress] Trudy
III Vsesoiuznogo gidrologicheskogo s"ezda. Vol.5. [Section of
Hydrodynamics and River-Bed Evolution] Sektsiia gidrodinamiki i
ruslovykh protsessov. 1960. 421 p.

(MIRA 13:11)

1. Vsesoyuznyy gidrologicheskii s"ezd. 3d, Leningrad, 1957.
2. Gosudarstvennyy gidrologicheskii institut (for Fedorov, Popov).
3. Chlen-korrespondent AN SSSR (for Velikanov).
(Hydrology--Congresses)

DAVIDOV, L. K.

Marian's formula. Vest. LGU 15 no.18:144-145 '60. (MIRA 13:9)
(Seiches)

LEBEDEV, Vladimir Vasil'yevich; DAVIDOV, L.K., doktor geogr. nauk, prof.,
retsenzent; YASNOGOROLSKAYA, M.M., red.; BRAYNINA, M.I., tekhn. red.

[Hydrology and hydrometry in problems] Gidrologia i gidrometriia v
zadachakh. 3. dop. i perer. izd. Leningrad, Gidrometeor.izd-vo, 1961.
699 p. (MIRA 14:12)

1. Zaveduyushchiy kafedroy gidrologii sushi Leningradskogo gosudarstven-
nogo universiteta (for Davidov). (Hydrology)

DAVIDOV, L.K.

Relationship between the velocity of water discharge and the mean
current velocity. Vest.LGU 16 no.24:119-126 '61. (MIRA 14:12)
(Rivers)

DAVIDOV, L.N.

Hydrogen electrodes for the determination of pH and potentiometric
titration. Lab. delo 6 no. 4:56-57 JI-Ag '60. (MIRA 13:12)
(HYDROGEN-ION CONCENTRATION) (ELECTRODES)
(POTENTIOMETRIC ANALYSIS)

ARTYUGIN, I.M.; GRACHEV, Yu.P.; DAVYDOV, L.N.; DOYNIKOV, Ya.P.; KIRPICHEV, V.I.; LEVENTAL', G.B.; MELENT'YEV, L.A.; MICHURIN, K.I.; NIKONOV, A.P.; SASHONKO, G.I.; STARIKOV, V.G.; FROLOV, V.I.; KHRILEV, L.S.; RABINOVICH, A.L., red.; SOBOLEVA, Ye.M., tekhn. red.

[Technical and economic principles of the expansion of heat supply engineering in power systems] Tekhniko-ekonomicheskie osnovy razvitiia teplofikatsii v energosistemakh. Moskva, Gos. energ. izd-vo, 1961. 318 p. (MIRA 15:3)
(Heat engineering) (Electric power plants)

DAVYDOV, Lav. Nisimovich; NADEL', A.B., red.; TELYASHOV, R.Kh.,
red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Machine for the bending of catch-lugs on large-size extension springs] Stanok dlia zagibki ushkov-zatsepov u pruzhin rastiazhenia krupnykh gabaritov. Leningrad, 1963. 10 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Otmen peredovym opytom. Seria: Mekhanicheskaiia obrabotka metallov, no.2) (MIRA 16:5)
(Springs (Mechanisms)) (Metalworking machinery)

DAVIDOV, L.S.; KUGAYENKO, A.A.

Procedure for tensile testing of concrete. Zav.lab.21 no.9:1106-1109 '55.
(MIRA 9:1)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut sheleznedorozhno-go stroitel'stva i proyektirovaniya.
(Concrete-Testing)

SHESTOPEROV, S.V., doktor tekhnicheskikh nauk; BOGIN, N.M., kandidat tekhnicheskikh nauk; IVANOV, G.S., inzhener; LUKICHEV, N.A., inzhener; ~~DAVIDOV, I.S., inzhener~~; GROMOV, V.S., inzhener; POPOV, N.A., inzhener; ZHURAVLEV, G.M., master.

Vibrators for making wire reinforced ties on stands. Transp.stroi. 6
no.3:12-14 Mr '56. (MLRA 9:7)

(Railroads--Ties, Concrete)

DAVIDOV, L. YA.

DAVIDOV, L. YA.

"Condition of the Chorionic Villi in Early Abortions." L'vov State Medical
Inst. L'vov, 1953. (Dissertation for the Degree of Candidate of Medical
Sciences)

SO: M-972, 20 Feb 56

DAVYDOV, L.Ya., kand. med. nauk; GERINA, N.P.

Case of pregnancy toxemia complicated by diabetes insipidus.
Akush. i gin. 39 no.4:122 JI-Ag'63 (MIRA 16:12)

1. Iz L'vovskogo nauchno-issledovatel'skogo instituta okhrany
materinstva i detstva (dir. - kand. med. nauk L. Davydov).

DAVYDOV, L.Ya.

Conservative treatment of patients with fibromyoma of the uterus.
Vop. onk. 11 no.3:94-98 '65. (MIRA 18.6)

1. Iz L'vovskogo nauchno-issledcvatel'skogo instituta okhrany
materinstva i detstva (dir. - kand. med. nauk L.Ya. Davydov).

DAVYDOV, L.Ye.; KOLODKIN, I.A.

Truck for hauling and installation of streetcar units. Rats. predl.
na gor. elektrotransp. no.9:39 '64.

(MIRA 18:2)

1. Vagonoremontnyy zavod Tramvayno-trolleybusnogo upravleniya Lenin-
grada.

DAVYDOV, M., inzh.

Economize fuel and use it carefully. Rech. transp. 22 no.6:22-24
Je '63. (MIRA 16:9)

(Inland water transportation—Cost of operation)
(Merchant ships—Fuel consumption)

DAVYDOV, M.

PA 42/49T105

USSR/Radio Receivers, Crystal Controlled Apr 49
Vacuum Tubes

"A One-Tube Detector and Amplifier," M. Davydov, 1 p

"Radio" No 4

Diagram and operation of an attachment for crystal sets to give greater volume and stability of operation in which one tube (2K2M or 2ZM2M) is used as a diode detector and an audio amplifier.

42/49T105

DAVYDOV, M.

USER/ Electronics - Radio receivers

Card 1/1 Pub. 89 - 13/28

Authors : Davydov, M.

Title : ~~Radio receivers~~
New radio broadcasting receivers

Periodical : Radio 4, 24-25, Apr 1955

Abstract : A review is presented of the design, assembly and operation of the new types of European radio receivers in order to familiarize the readers with their structural characteristics. The article gives a general description of portable and stationary receivers, and the radio-phonograph combination sets. No symbols or designation of receiver sets are given. Illustration; drawings.

Institution :

Submitted :

DAVIDOV, M.

DAVIDOV, M.

Improving the sound quality of small size radio receivers. Radio
no.8:43 Ag '55. (MLRA 8:10)
(Radio--Receivers and reception)

Davydov, M.

AID P - 4419

Subject : USSR/Radio

Card 1/1 Pub. 89 - 17/18

Author : Davydov, M.

Title : Audio systems in radio sets

Periodical : Radio, 4, 52-54, Ap 1956

Abstract : The placement of sound amplifiers in a receiver set is discussed. American and German designs of various types are explained in detail. Ten diagrams.

Institution : None

Submitted : No date

AUTHOR: Davydov, M. SOV-107-58-8-40/53

TITLE: An AF Amplifier With Push-Button Switching (Usilitel' NCh s klavishnym peroklyuchatelem)

PERIODICAL: Radio, 1958, Nr 8, pp 43-44 (USSR)

ABSTRACT: The above mentioned amplifier incorporates both stepless tone control and a push button system with 5 positons: "Orchestra", "Solo", "Speech" "Light Music" and "Bass". The push-button tone-control group is connected between the input and first stage of the amplifier and selects the most suitable AF response curve for the amplifier by switching in condensers and resistances of different values. The set itself is a 3-stage AF amplifier with stepless tone-control between stages 1 and 2. It uses frequency response negative feedback between stages 2 and 3 and has 2 speakers in series for bass and 2 in parallel for treble reproduction. Sensitivity at the input is 100 mv. The nominal output capacity is 2 va with a non-linear distortions factor of not more than 2.3% and a maximum output of 5.5 va. There is 1 circuit diagram and 1 graph.

1. Radio receivers--Equipment 2. Radio receivers--Control systems
3. Sound--Control

Card 1/1

AUTHOR: Davydov, M. SOV/107-59-1-37/51

TITLE: Timbre Regulators (Regulatory tembura)

PERIODICAL: Radio, 1959, Nr 1, pp 42-44 (USSR)

ABSTRACT: The author describes various methods of regulating the tone color and its quality in TV and radio receiving sets. He explains the circuits used in foreign sets, including one for a remote tone-control unit. There are 10 circuits and 2 graphs.

Card 1/1

VIKTOROV, V.; DAVYDOV, M.

Prevent accidents from static electricity. Bezop. truda v
prom. 8 no.9:24-25 S '64 (MIRA 18:1)

DAVYDOV, M., inzh.

Ob' and Yenisey River, we are waiting to see you in the South! Engineer designs new rivers. Tekh.mol. 29 no.4:19-21 Ap '61. (MIRA 14:5)
(Rivers--Regulation)

PETROV, Boris Petrovich; STEPANOV, Aleksandr Dmitriyevich; MINOV, D.K., prof., retsenzent; DAVYDOV, M.A., dots., retsenzent; KOSAREV, G.V., dots., retsenzent; TRAKHTMAN, L.M., dots., retsenzent; SIDOROV, N.I., red.; LARIONOV, G.Ye., tekhn. red.

[Electrical equipment and automation of electric rolling stock] Elektricheskoe oborudovanie i avtomatizatsiia elektricheskogo podvizhnogo sostava. Izd.2., perer. i dop. Moskva, Gosenergoizdat, 1963. 303 p. (MIRA 17:3)

DAV^YDOV, M. I.

"Geomorphological Characteristics of the Southern Ryazanskaya Oblast."
Sub 28 Feb 51, Moscow City Pedagogical Inst imeni V. P. Potemkin.

Dissertations presented for science and engineering degrees in Moscow
during 1951.

SO: Sum. No. 480, 9 May 55

GLUSHKOV, Viktor Grigor'yevich, inzh., gidrolog [1883-1939]; L'VOVICH, M.I.;
GERASIMOV, I.P., akademik, red.; BLIZNYAK, Ye.V., red. [deceased];
DAVYDOV, M.I., KUNIN, V.N., otv. red.; POSLAVSKIY, V.V., red.; BIRINA,
A.V., red. izd-va; POLYAKOVA, T.V., tekhn. red.

[Theoretical problems and methods of hydrological research] Voprosy
teorii i ~~metody~~ gidrologicheskikh issledovaniy. Moskva, Izd-vo
Akad. nauk SSSR, 1961. 415 p. (MIRA 14:9)
(Hydrology—Research)

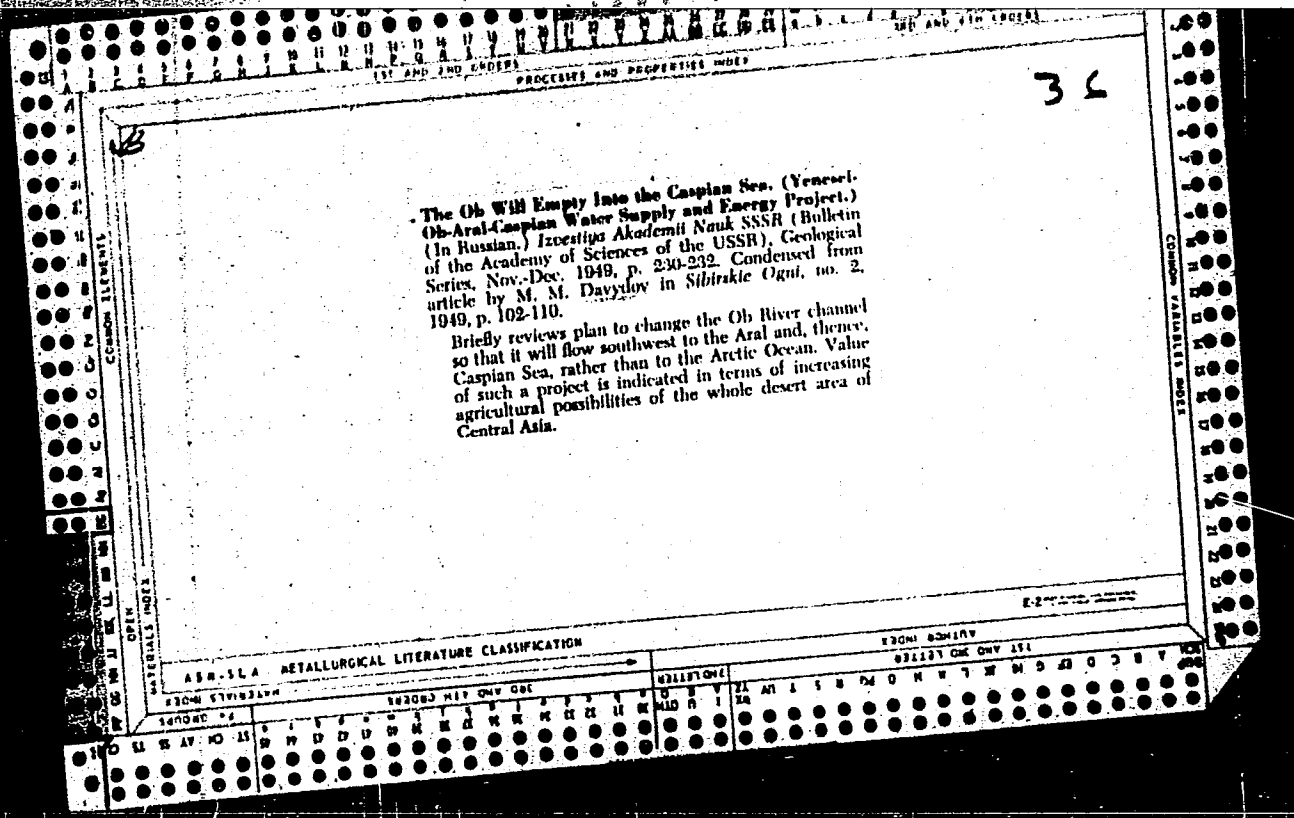
1. ABILOV, K. M., DAVIDOV, M. M.
2. USSR (600)
4. Blood.
7. Effect of carotophthalan and refined naphthalan on nitrogen from amino acids in the blood. Trudy Vses. obshch. fiz. biokhim. i farm. no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1958. Unclassified.

DAVYDOV, Mikhail Mikhaylovich; BOBYLEV, M.G., red.; BILENKO,
L.S., red.izd-va; SOTNIKOVA, N.F., tekhn. red.

[Catching muskrats with creels] Otlov ondatry mordami
(vershami). Moskva, Izd-vo Tsentrosoiuza, 1963. 53 p.
(MIRA 16:11)

(Yakutia—Muskrats)



DAVIDOV, M.M.

36

Linking Up the Waters of the Ob With the Aral and Caspian Seas. M. M. Davidov, *Engineers' Digest*, v. 11, Apr. 1950, p. 129. Translated and condensed from *Gidrotekhnicheskoe Stroitel'stvo* (Hydrotechnical Engineering), no. 3, 1949, p. 6-11.

Outlines ambitious Russian plan for improving the distribution of water sources, generating large amounts of power, providing a deep waterway for ocean-going ships, and even changing the climate of large areas.

ASNT-51A METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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DAVYDOV, M. M.

Preobrazovanie rechoi seti Sovetskoi strany. [Transformation of the river network of the Soviet country.] (Geografiia v shkole, 1949, no. 3, p. 12).

DLC: G1.G313

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

DAVIDOV, M.M.; ALEKSANDROV, B.K., professor, redaktor

[Great hydroelectric construction projects in the U.S.S.R.] Velikoe
gidrotekhnicheskoe stroitel'stvo v SSSR. Moskva, "Pravda," 1951.
31 p. (MIRA 8:6)
(Hydroelectric power stations)

AVAKYAN, A.B.; BUDYKO, M.I.; YUDIN, M.I.; OCHAKOVSKIY, Yu.Ye.; DAVYDOV, M.M.;
ARMAND, D.L.; FEDOROVICH, B.A.; ZUBOV, N.N.; ANTIPOR-KARATAYEV, I.N.;
SAPOZHNIKOVA, S.A.; ALISOV, B.P.; FOTEYEV, I.M.

Discussion of reports of the meeting. Vop.geog. 28:74-96 '52. (MLRA 7:5)

1. Gidroenergoprojekt Ministerstva elektrostantsiy (for Avakyan).
2. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova (for Budyko and Yudin).
3. Institut okeanologii Akademii nauk SSSR (for Ochakovskiy).
4. Gidroenergoprojekt Ministerstva elektrostantsiy (for Davydov).
5. Institut geografii Akademii nauk SSSR (for Armand, Fedorovich, and Foteyev).
6. Geograficheskii fakul'tet Moskovskogo gosudarstvennogo universiteta (for Zubov and Alisov).
7. Pochvennyy institut im. V.V. Dokuchayeva Akademii nauk SSSR (for Antipov-Karatayev, I.N.).
8. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova (for Sapozhnikova).

DAVIDOV, M.M.; LESHOV, M.Z.

Guidebooks about the Volga and the Volga-Don Navigation Canal. Sov.kniga
no.8:21-24 Ag '53. (MLRA 6:8)

(Volga river) (Volga-Don canal)

1. DAVYDOV, M. M.; TSUNTS, M. Z.; KEDROV, F. B.
2. USSR (600)
4. Russia - Public Works
7. Great structures of the Stalin epoch (survey of literature). M. M. Davydov, M. Z. TSunts, F. B. Kedrov. *Priroda* 42, No. 4, 1953.

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

DAVIDOV, Mitrofan Mikhaylovich; SHVETSOV, I.B., redaktor; ISLENT'YEVA, P.G., tekhnicheskiy redaktor.

[Hydraulic construction of the U.S.S.R. in the fifth five-year plan] Gidrotekhnicheskoe stroitel'stvo SSSR v piatoi piatiletke. Po materialam "Voskresnykh chtenii" Politekhnicheskogo muzeia. Moskva, Izd-vo "Znanie," 1954. 39 p. (Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh i nauchnykh znani. Ser. 4, no.13)
(Hydraulic engineering) (MLRA 7:8)

DAVYDOV, NITROPAN MIKHAYLOVICH

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Rasskaz o velikikh rekakh (The story of great rivers, by) M. Davydov
i M. Taunts. Moskva, Goskul'turovetizdat, 1955.
182 p. illus., graphs, maps.

DAVIDOV, M.M.

Soviet water power engineering. Fiz. v shkole 15 no.3:6-17
My-Je '55. (MLBA 8:6)
(Hydroelectric power)

DAVIDOV, MITROFAN

DAVIDOV, Mitrofan-Mikheylovich; LANINA, L.I., red.; GUBIN, M.I., tekhn.red.

[Prospects for over-all utilization of Siberian water power]
Perspektivy kompleksnogo ispol'zovaniia stoka sibirskikh rek. Moskva,
Izd-vo "Znanie," 1957. 31 p. (Vsesoiuznoe obshchestvo po rasprostrane-
niyu politicheskikh i nauchnykh znani. Ser.4, no.31) (MIRA 11:1)
(Siberia--Hydroelectric power)

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PHASE I BOOK EXPLOITATION

SOV/1892

Davydov, Mitrofan Mikhaylovich, and Mikhail Zinov'yevich Tsunts

Ot Volkhova do Amura (From the Volkhov to the Amur) Moscow, Izd-vo "Sovetskaya Rossiya," 1958. 325 p. 20,000 copies printed.

Ed.: Yu. E. Berenson; Tech. Ed.: E.A.Rozen.

PURPOSE: This book is intended for the general reader.

COVERAGE: The authors stress the importance of utilizing the presently existing water system of the USSR, the artificial lakes and the projected canals, for the production of electric power. They explain that only 1.7% of the available water power is being utilized as compared with 25% in USA, 35% in Canada, 43% in France and 71% in Western Germany. They discuss the present state of hydroelectrification in the USSR and describe the projects, now under construction or in planning, for utilizing some of the energy stored in the 2.5 million kilometers of 108,000 Soviet waterways. They provide general information and maps of the All-Union

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From the Volkhov to the Amur

SOV/1892

hydroelectric system and describe the numerous hydroelectric regional systems, such as Central, South, Ural, Caucasus, Northwest, Central Asia, Western Siberia, Eastern Siberia and Far East. The authors also provide detailed maps of individual water systems and their hydroelectric stations, those already in operation and those in various stages of planning or construction. They also mention projects of the distant future, among them the Bering Straits Dam, which not only will supply enormous quantities of electric power to Kamchatka and Alaska, but will also change the climate of the Arctic to a moderate one. No personalities are mentioned. There are no references.

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AVAILABLE: Library of Congress

Card 4/4

JP/bg
8-28-59

DAVYDOV. M. P., ZASLAVSKIY. YU. Z. I TYURKIAN, R. A.

5512 Davydov. M. P., Zaslavskiy. Yu. Z. I Tyurkian, R. A. 150 m Gotovogo
vertikal'nogo stvola v mesyats. (Opyt Prokhodki ventilyatsionnogo stvola shakhty
Budenovskaya-Vostochnaya). M. 1954. 35 s. s. 111 22 sm. (M-Vo ugol'noy
Prom-sti SSSR. Tekhn. upr. Tsent. in-t tekhn. Informatsii). 5.000 eks.
Bespl. - (55-1172) P 622.333:622.25 st

SO: Knizhnaya Letopis' , Vol. 1, 1955

DAVYDOV, M. P.

9

4161. 120.6 METERS OF LARGE DIAMETER SHAFT COMPLETED IN A MONTH.
Davydov, M.P., Zeri, A.S. and Velobuov, B.R. (Uzel (Coal), June 1954,
34-377). THIS record depth of U n shaft complete with brick lining was
achieved by continuous 3-shift work at the Ignat'evskaya mine in March 1954.
Details are given of drilling and shot-firing, grabs, suspended starting,
lighting and organization of work. Suggestions are made for improvement.
(L).

DAVIDOV, M. P.

USSR/Mining - Shaft Sinking

Card 1/1

Authors : Davydov, M. P., and Zori, A. S.

Title : Sinking of a 120.6 Meters Long Cage-Shaft in One Month

Periodical : Mekh. Trud. Rab. Ed. 3, 6 - 9, Apr-May 1954

Abstract : The sinking of a cage shaft in the Ignat'evskaya coal combine is described together with the sinking operations. The type of machinery used for the operation is specified. Graphs on the productivity of labor, organization of shifts, and the type of sinking operations are presented. Tables; graphs; drawings.

Institution :

Submitted :

DAVYDOV, M.P.; ZASLAVSKIY, Yu.Z.; ZORI, A.S.

150 meters of prepared mine shafts per month. Mekh.trud.rab. 8
no.8:17-20 D '54. (MIRA 8:1)

1. Upravlyayushchiy trestom Stalinshakhtoprokhodka (for Davydov)
2. Glavnyy inzhener prokhodcheskogo stroyupravleniya No.3 (for Zaslavskiy).
3. Nachal'nik tekhnicheskogo otdela tresta (for Zori)
(Donets Basin--Mining engineering)

DAVYDOV, Mikhail Prokof'yevich; ZORI, Anatoliy Stafanovich; KOCHERGA,
N., redaktor; VUYEK, M., tekhnicheskii redaktor.

[Rapid sinking of vertical shafts] Skorostnaia prokhodka
vertikal'nykh stvolov. Kiev, Gos.isd-vo tekhn. lit-ry USSR,
1955. 71 p. (MLRA 8:12)
(Shaft sinking)

DAVIDOV, M.P.; ZORI, A.S.

One hundred and fifty meters of completed vertical shaft per month.
Gor.zhur. no.2:10-14 F155. (MIRA 8:7)
(Shaft sinking)

DAVYDOV, M.P.; ZORI, A.S.

202.1 meters of prepared mine shaft per month. Mekh. trud. rab.
9 no.5:21-24 My '55. (MIRA 8:7)

1. Nachal'nik kombinata Stalinshakhtostroy (for Davydov). 2. Nachal'nik tekhnicheskogo otdela tresta Stalinshakhtoprokhodka (for Zori).
(Shaft sinking)

DAVYDOV, M.P.; TYURKYAN, R.A.; RAKOV, I.E.

How 241 meters of completed shaft were sunk in one month.

Shakht.stroi. no.5:25-28 My '57.

(MIRA 10:7)

(Shaft sinking)

DAVYDOV, M.P.
DAVYDOV, M.P.

In the "Stalinshakhtostroi" combine. Shakht.stroi. no.11:5-6
N '57. (MIRA 10:12)

1. Nachal'nik kombinata Stalinshakhtstroy.
(Donets Basin--Coal mines and mining)

DAVYDOV, M.P., laureat Leninskoy premii

Rate of 264.6 meters of shaft sinking per month is not the utmost
limit. Shakht. stroi. no.7:3-8 '59. (MIRA 12:10)

1. Upravlyayushchiy trestom Stalinshakhtoprokhodka,
(Shaft sinking)

DAVYDOV, M.S.; STARKOV, G.V., redaktor; SHENFEL'D, S.D., redaktor;
KRASNAYA, A.K., tekhnicheskij redaktor.

[Lubricants and their use in the river fleet] Smazochnye ma-
terialy i ikh ispol'zovanie na rechnom flote. Moskva, Gos. izd-vo
vodnogo transp., 1953. 165 p. [Microfilm] (MLRA 7:8)
(Lubrication and lubricants)

DAVYDOV, M.S., inzhener

Major element in the potential cost reduction of transportation.
Rech.transp. 14 no.9:12-15 S'55. (MLRA 8:12)
(Merchant marine)

Chronicle

5/006/60/000/004/001/001
8012/8031

(Leningrad State University). L. A. Chernova spoke about "The Errors of Interpretation of Gravity Anomalies and the Role of the Geophysical Service of the Ministry of Geology of the USSR in the Interpretation and Interpretation of Gravity Anomalies." She mentioned the results of the work of the Geophysical Service of the Ministry of Geology of the USSR in the interpretation of gravity anomalies. She mentioned the results of the work of the Geophysical Service of the Ministry of Geology of the USSR in the interpretation of gravity anomalies. She mentioned the results of the work of the Geophysical Service of the Ministry of Geology of the USSR in the interpretation of gravity anomalies.

Card 4/6

Techniques and technology in production were discussed. It is noted that the conference it was held in the extent of the work mentioned will be considerably increased within the next seven years. Furthermore, the following drawbacks were pointed out: the methods applied are too extensive and expensive; the geological observations are insufficiently equipped with new apparatus; the geological observations are insufficiently equipped with new apparatus; the geological observations are insufficiently equipped with new apparatus.

Card 5/6

of the topographic service of the Geology Ministry USSR (Topographic and Surveying Service of the Geology Ministry USSR) to do a "Working possible in order to carry out the resolutions of the 21st Party Congress of the CPSU and the Program of the Central Committee of the CPSU in June."

Card 6/6

9.6160

40220
S/169/62/000/007/046/149
D228/D307

AUTHORS: Mininzon, G. M., Davydov, M. S. and Ayrapetyan, T. M.

TITLE: Portable ПВН-1 (GVP-1) gravimeter-altimeter

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 26, abstract 7A172 (V sb. Sostoyaniye i perspektivy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh, M., Gostoptekhizdat, 1961, 413-419)

TEXT: A portable GVP-1 gravimeter-altimeter has been developed. It consists of two resilience systems: one compensated barometrically and the other with an increased barometric factor. The instrument's design is based on a system of astatic spring weights in which the lever is suspended on horizontally placed helical cylindrical springs of the alloy H41 XT (N41 KhT). The device is thermostatically controlled at a temperature that is selected in accordance with the maximum temperature of the area in which it is being used (30, 35, or 45°). A bimetallic compensator is mounted on the instrument; by means of this it is possible to cool the temperature.

Card 1/2

Portable GVP-1 ...

S/169/62/000/007/046/149
D228/D307

ature characteristics of the resilience systems and bring the inflection points of these characteristics to a set thermostat temperature. [Abstracter's note: The word vypolazhivat' is taken as being vykholazhivat'.] A Dewar flask with an inner diameter of 100 mm is used as the outer thermal insulation. The thermostat power consumption amounts to about 0.03 W per 1°C. The device's thermostating ratio is 1:150. The astatic resilience system's angular sensitivity equals approximately 20 - 25 seconds per milligal. The adopted autocollimator optical system provides for a twofold reflection from the mobile mirror; it also ensures that the accuracy of balancing the resilience systems is 0.02 - 0.04 milligal. In order to eliminate the terrestrial magnetic field's influence, the resilience systems after alignment are demagnetized and, moreover, surrounded by a magnetic shield. The results of proving and commercial tests of six GVP-1 gravimeter-altimeters are given. The mean square error of a single measurement by one system varies from 0.13 to 0.25 milligal for different instruments. [Abstracter's note: Complete translation.]

Card 2/2

VERTSNER, V.N.; TIKHOMIROV, G.P.; DAVYDOV, M.S.

Electron-microscopic and electron diffraction studies of photo-sensitive lead sulfide films obtained by precipitation from solutions. Izv. AN SSSR. Ser. fiz. 27 no.9:1228-1231 S '63.

(MIRA 16:9)

(Electron microscopy) (Electron diffraction examination)
(Lead sulfide--Testing)

L 3773-66 EWT(m) DIAAP GS

ACCESSION NR: AT5007950

S/0000/64/000/000/0791/0794

AUTHOR: Davydov, M. S.; Dorfman, L. G.; Yekimov, V. V.; Zalmanzon, V. B.; Zeytlénok, G. A.; Levin, V. M.; Malyshev, I. F.; Petelin, I. G.; Petrunin, V. I.; Popov, V. A.; Trushin, N. Kh.; Umanskiy, I. G.; Finkel'shteyn, I. I.

39
38
071

TITLE: Deflecting system of 5-Gev antiproton channel

SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy. Moscow, Atomizdat, 1964, 791-794

TOPIC TAGS: antiproton, high energy particle, particle beam, high energy accelerator

ABSTRACT: Specific requirements flowing from the applied principle of particle resolution have determined the choice of the type of deflecting system. During development of the device the requirements were also considered from the viewpoint of the high-frequency power supply system. The creation of a high-power 150-megahertz frequency generator that operates with pulses of several milliseconds duration is a technically complex task. Therefore, special attention was given during the development of the deflecting system to its economy and efficiency. Taking these considerations into account, computations were carried out of a number of

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L 3773-66

ACCESSION NR: AT5007950

alternate deflecting systems--in the form of a waveguide or band line operating in the energy recuperation regime, or in the form of a system of many-cavity or single-cavity volume resonators. As shown by the computations, it is most expedient to make the deflecting system in the form of a set of independently phased resonators of the quasitoroidal type, which operate in the fundamental mode of the electric oscillations, with the use of high-frequency electrical field for deflecting the particles. The report discusses the resonators employed in the deflecting system and their arrangement in the system. The chosen resonator form permits one to obtain a specific homogeneity of the deflecting field in the cross section of a beam by selection of suitable dimensions. The report discusses the characteristics of the developed system. The linear dimensions of the apertures in the resonators for channeling the beam are commensurable with the operating wavelength, which fact leads to the radiation of electromagnetic energy and to the appearance of a strong bond among the resonators. In order to eliminate this phenomenon and preserve complete transparency of the channel for the beam of deflected particles among the resonators, the waveguide segments are provided with limiting wavelength much lower than the operating one, and feedback is introduced in the magnetic field. As shown by investigations, the bond among the resonators is almost completely eliminated. Considerable attention was paid to the electric transparency of the resona-

Card 2/3

L 3773-66

ACCESSION NR: AT5007950

tors. The field strength in the resonator gaps which corresponds to a given magnitude of the deflecting pulse was determined on the basis of the field pictures that were taken in an electrolytic tank. Corrections were made for the variation in the high-frequency field during the particles' flight time through a resonator and for the difference between the static and high-frequency pictures of the field in a gap. Measures were also taken to eliminate in the resonators the secondary electron resonance discharge. Orig. art. has: 2 figures.

ASSOCIATION: Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury
Imeni P. V. Yefremova GKAE SSSR (Scientific-Research Institute of Electrophysical
Equipment; GKAE SSSR)

SUBMITTED: 26May64

ENCL: 00

S UB CODE: NF

NO REF SOV: 000

OTHER: 000



Card 3/3

L 00940-66 ENT(m)

ACCESSION NR: AT5015937

UR/3092/65/000/003/0051/0063

AUTHOR: Davydov, M. S.; Zeytlenok, G. A.; Levin, V. M.; Malyshev, I. F.;
Petelin, I. G.; Petrunin, V. I.; Trushin, N. F.; Finkel'shteyn, I. I.

TITLE: Problems of constructing the deflecting system of a 5-Gev antiproton
channel

SOURCE: Moscow. Nauchno-issledovatel'skiy institut elektrofizicheskoy
apparatury. Elektrofizicheskaya apparatura; sbornik statey, no. 3, 1965, 51-63

TOPIC TAGS: antiproton, antiproton isolation

ABSTRACT: The construction principles of an antiproton-isolating r-f deflecting
system are set forth. Calculations showed that the most expedient deflecting
system should comprise a set of independently-phased single-gap quasi-toroidal
resonators operating at the fundamental wave mode, the deflection being
accomplished by an electric r-f field. The deflection system of the OIYaI 5-Gev

Card 1/2

L 00946-66

ACCESSION NR: AT5015937

antiproton channel designed along the above lines (details given) has these characteristics: 16 rectangular-deflecting-area resonators; resonance frequency, 150 Mc; Q-factor, 15000 or higher; shunt resistance, 0.8 Mohms; power loss in one resonator is 60 kw and in the entire deflecting system, 1 Mw at a rated electric-field strength of 31.2 kv/cm. All resonators are mounted in a 3-section 14-m long 1.5-m diameter vacuum tank. The resonators are connected to their feeders via vacuum lead-ins and two-loop matchers. A separate-excitation 1.5-Mw vhf oscillator produces 6- μ sec pulses at a repetition rate of 5 p/min. Orig. art. has: 12 figures and 6 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: NP, EC

NO REF SOV: 005

OTHER: 001

Card 2/2 *DP*

L 04493-67 EWT(1)/EWT(m)/T/EWF(r)/ETI LJP(c) RIDW/JD/GG

ACC NR: AP6015770 (A, N) SOURCE CODE: UR/0048/66/030/005/0799/0802

AUTHOR: Biller, L.N.; Vertsner, V.N.; Davydov, M.S.; Kosnyrev, V.S.; Tikhomirov, G.P.

ORG: none

23
22
B

TITLE: Electron diffraction and electron microscope investigation of the initial stages of formation of lead sulfide and lead selenide films. Report, Fifth All-Union Conference on Electron Microscopy held in Sumy 6-8 July 1965

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 799-802

TOPIC TAGS: electron microscope, electron diffraction, lead compound, sulfide, selenide, photoconducting film

ABSTRACT: The growth of thin films of lead sulfide and lead selenide deposited from solution onto glass or sapphire substrates has been investigated with an electron microscope, using the carbon-platinum replica technique, and by electron diffraction. The investigation was undertaken because of the technical importance of the materials for the production of photoconductive cells. The initial reagents were lead acetate, thiourea or selenourea, and sodium or potassium hydroxide. The size and distribution of crystals in the films were determined with the electron microscope, and the presence of impurities was detected by electron diffraction, using a transmission technique for the thinnest films and a reflection technique for the thicker ones. It was found that a necessary condition for the formation of a film that would adhere well to

Card 1/2

1. 04493-67

ACC NR: AP6015770

the substrate was the simultaneous deposition with the lead sulfide or selenide of some other poorly soluble lead compound (lead cyanamide, oxide, or subcarbonate). The lead selenide and sulfide crystals formed in the solution adhered poorly to the substrate, and the deposition of impurities inhibited the growth of these crystals and reduced the rate of increase of the thickness of the film. The formation of the impurity phases took place mainly in the early stages of the deposition when the solution was still rich in lead ions, for the impurities are considerably more soluble than the sulfide or selenide. It was sometimes difficult to detect the presence of an impurity phase in the lead sulfide or selenide films, particularly in the case of lead oxide which under some conditions was amorphous. The impurity could be detected, however, by treating the film with a solution capable either of dissolving the impurity or of converting it to lead sulfide (or selenide). Vacuum deposited films containing no impurities were unaffected by this treatment, whereas films deposited from solution were usually destroyed as a result of detachment from the substrate. Orig art has: 4 figures.

SUB CODE: 20/

SUBM DATE: 00/

ORIG REF: 001/

OTH REF: 002

Card 2/2 *eye*

ACC NR: AP7002720

SOURCE CODE: UR/0237/66/000/012/0009/0012

AUTHOR: Voytovich, G. D.; Davydov, M. S.; Ivanov, A. I.; Tikhomirov, G. P.

ORG: none

TITLE: Study of the optical properties, structure, and phase composition of lead sulfide and selenide films

SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 12, 1966, 9-12

TOPIC TAGS: optics, spectral absorption, lead sulfide, lead selenide, thin film, thin film optics, thin film structure, thin film phase composition, lead sulfide film, film impurity, cyanide, basic carbonate, zinc oxide, electron microscopy, electron diffraction

ABSTRACT: A study was made of the spectral absorption of thin films of lead sulfide and lead selenide obtained by precipitation from solution. The structure and phase composition of the films were investigated using electron microscopy and electron diffraction. The anomalies observed in the optical absorption curve and spectral response curve were found to characterize films containing impurity phases: cyanide, basic carbonate, and zinc oxide. It was also noted that the

Card 1/2

UDC: 539.216.22:546.815'221'23:535

ACC NR: AP7002720

coprecipitation of impurities substantially affects the crystallization of lead sulfide and lead selenide. Orig. art. has: 4 figs. and 1 table. [Translation of abstract] [SP]

SUB CODE: 20/SUBM DATE: 03Feb66/ORIG REF: 003/OTH REF: 005/

Card 2/2

DAVDOV, H. V.

Progeess of growth in dense beech tree plantings. Les. khoz. 5 No 4 (43),
April 1952.

COUNTRY : USSR
CATEGORY : Forestry. Forest Cultures. K
ABS. JOUR. : RZhBiol., No. 3, 1959, No. 10803
AUTHOR : Davydov, M. V.
INST. : Ukrainian Academy of Agricultural Sciences.
TITLE : The Effectiveness of Black Alder Cultivation on Swampy
Soils.
ORIG. PUB. : Visnik sil'skogospod. nauk. Ukr. Akad. sil'skogospod.
nauk, 1958, No. 4, 44-50.
ABSTRACT : The significance is emphasized of alder cultivation on
swampy meadows as an effective measure of raising the
volume increase (by 10-15%) per unit of the forest area
in Surskaya Oblast', at Trostyanetskiy Experimental Les-
khoz. Black alder plantations give here high productivity
(Grade 1-3) reaching commercial maturity at the age of
50 years with a reserve of 365 m³/ha. The economics of
the plantations are cited. -- L. V. Nearellov

CARD: 1/1

DAVIDOV, M. V.

DECEASED

1963/1

c. 1962

MEDICINE- Biology

DAVIDOV, M.Ya., inzh.

Equipment for manufacturing wall blocks or slabs without formwork.
Stroi, i dor mash. 7 no.6:20-22 Je '62. (MIRA 15:7)
(Concrete walls)

DAVYDOV, N.

Follow-up of published articles. Mias. ind. SSSR 34 no. 4:42 '63.
(MIRA 16:10)

1. Tashkentskiy myasnoy kombinat.

TARASINSKIY, G.; DAVYDOV, N.

Work practices of the Orenburg Feed Mill. Muk.relev.prom. 27
no.5:5-6 My '61. (MIRA 14:6)

1. Orenburgskiy kombikormovyy zavod. 2. Glavnyy inzh. Orenburgskogo
kombikormovogo zavoda (for Tarasinskiy). 3. Zamestitel'glavnogo
inzhenera Orenburgskogo kombikormovogo zavoda (for Davydov).
(Orenburg--Feed mills)

DAVIDOV, N.

How should we evaluate the work of motor vehicles operating on an hourly basis? Avt.transp. 40 no.12:28 D '62. (MIRA 15:12)

1. Starshiy ekonomist Khabarovskogo gruzovogo avtokhozyaystva No.2.

(Transportation, Automotive—Accounting)

DAVIDOV, N.

Water-and-oil heater. Prof.-tekh. obr. 13 no.10:11-12 0 '56.
(MIRA 9:11)

1. Starshiy master uchilishcha mekhanizatsii sel'skogo khozyaystva
no.11, Bashkirekaya ASSR.
(Water heaters) (Tractors)

DAVYDOV, N.

SUBJECT: USSR/Mining Schools 27-4-8/19

AUTHOR: Davydov, N., Senior Inspector of the Kemerovo Oblast' Administration of Labor Reserves, and Shubina, O., in charge of Methodology Section.

TITLE: The Degree of Efficiency in Training Miners (O kachestve podgotovki shakhterov)

PERIODICAL: Professional'no - Tekhnicheskoye Obrazovaniye, April 1957, # 4 (143), pp 19-22 (USSR)

ABSTRACT: The authors point out the want in efficient training of graduates of the higher and normal mining schools as compared with the graduates of the Labor Reserve Schools. Recently, the facilities for instructing young laborers were studied during a period of two months at 2 higher and 4 normal mining schools of the Kemerovo district (Kuzbass). The article states in detail the shortcomings observed which were mostly due to the poor teaching methods, insufficient outfitting of the instruction rooms and workshops and deficient practical training. The authors make various recommendations in order to improve training efficiency and school equipment.

Card 1/2

DAVYDOV, N., inzh.

Direct delivery of container cargo. Mor. flot 23 no.10:10-12
0 '63. (MIRA 16:10)

1. Nachal'nik skladskoy chasti Potiyskogo porta.
(Utilized cargo systems)
(Transportation)

DAVYDOV, N., inzh.

Increase the role of commercial operation. Mor. flot. 24
no.11:14 N '64. (MIRA 18:8)

1. Port Poti.

DAVYDOV, N.A.

Supersummability of a power series by Cesaro's methods. Usp. mat.
nauk. 18 no.4:129-134 J1-Ag '63. (MIRA 16:9)

DAVYDOV, N. A.

"Certain Problems of the Theory of Border Values for Analytical Functions." Thesis for Degree of Cand. Physicomathematical Sci. Sub 20 Apr 49, Sci Res Inst Of Mathematics, Moscow Order of Lenin State U imeni M. V. Lomonosov.

Summary 82, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

DAVYDOV, N. A.

Davydov, N. A. The continuity of an integral of Cauchy type in a closed region. Doklady Akad. Nauk SSSR (N.S.) 64, 759-762 (1949). (Russian)

The author proves the following. Let L be a closed rectifiable Jordan curve and $f(z)$ a continuous function given on L ; if the principal value integral

$$\Phi(z) = \lim_{\lambda \rightarrow 1} (2\pi)^{-1} \int_L \frac{f(\zeta) - f(z_0)}{\zeta - z_0} |d\zeta|$$

exists uniformly with respect to z_0 on L , then

$$(1) \quad (2\pi)^{-1} \int_L \frac{f(\zeta)}{\zeta - z} d\zeta \rightarrow f(z_0) + (2\pi)^{-1} \int_L \frac{f(\zeta) - f(z_0)}{\zeta - z_0} d\zeta,$$

as z tends along any path to any point z_0 on L . The method of proof is different from that used in establishing a similar theorem due to Privaloff [same Doklady (N.S.) 23, 859-862 (1939); these Rev. 1, 365]. Corollary: the Cauchy integral

$$F(z) = (2\pi i)^{-1} \int_L \frac{f(\zeta)}{\zeta - z} d\zeta$$

is a continuous function in the closed region G bounded by the closed rectifiable Jordan curve L , provided

$$|z_1 - z_2| \geq c |s(z_1) - s(z_2)|^{1+\beta},$$

$\beta \geq 0$, and

$$|f(z_1) - f(z_2)| \leq K |z_1 - z_2|^\alpha,$$

$\beta/(1+\beta) < \alpha \leq 1$; the limiting values of F are given by (1). Also, $F(z)$ is continuous in G if $|f(z_1) - f(z_2)| \leq K |z_1 - z_2|^\alpha$ ((1) again applies). The latter result enables extension of the theory of singular integral equations (developed in the complex plane for piece-wise continuous curves) to the case of any rectifiable contour, provided $f \in \text{Lip } 1$.

W. J. Trjitsinsky (Urbana, Ill.).

Source: Mathematical Reviews.

Vol 10, No. 9

Small

DAVYDOV, N. A.

X Davydov, N. A. The convergence of lacunary trigono-
~~metric series~~ Doklady Akad. Nauk SSSR (N.S.) 65,
9-12 (1949). (Russian)

Let $\sum a_n z^{n\lambda_n} = f(z)$ be a power series convergent for $|z| < 1$
and satisfying the conditions $a_n \neq 0$, $\lambda_{n+1}/\lambda_n > q > 1$. A neces-
sary and sufficient condition that the series converge at
 $z=1$ to sum s is that $\lim f(z_n) = s$, where z_n is any sequence
of points in $|z| < 1$ converging to $z=1$ in the angle
between two chords through that point and such that
 $1 - \lambda_n^{-1} \leq |z_n| \leq 1 - \lambda_n^{-1}$. [Even in a more general case the
result was proved by Landau, Monatsch. Math. Phys. 18,
8-28 (1907), in particular, pp. 18-19.] A. Zygmund.

(Handwritten signature)

Source: Mathematical Reviews,

Vol: 10

No 8

DAVYDOV, N. A.

2700

Davydov, N. A. Generalization of some theorems on the convergence of power and trigonometric series. Doklady Akad. Nauk SSSR (N.S.) 81, 317-320 (1951). (Russian)

The author discusses the behavior of lacunary trigonometric and power series, and the behavior of non-lacunary series when the arguments (but not the moduli) of the coefficients are changed. The following are some of the results obtained. 1) In any power series $a_0 + a_1 e^{i\theta} + a_2 e^{i2\theta} + \dots$ satisfying $a_n = o(1)$, $\sum |a_n|^2 = \infty$, the arguments of the a_n may be so changed that for almost every θ the partial sums of the resulting series are dense in the complex plane. 2) If the lacunary series (*) $\sum a_k z^{\lambda_k}$ with $\lambda_{k+1}/\lambda_k > \lambda$ for all k converges for $|z| < 1$, then no matter how we change the arguments of the a_k , the sum (*) is unbounded in the neighborhood of every point on $|z| = 1$. 3) If $a_k = o(1)$, $\lambda_{k+1}/\lambda_k > \lambda > 1$, then a necessary and sufficient condition for convergence of (*) at a point z_0 , $|z_0| = 1$, is the existence of the limit of the function (*) along some non-tangential path ending at z_0 . [A result more general than 2) can be found in the reviewer's note, Studia Math. 3, 77-91 (1931).] A. Zygmund.

Smulder

Source: Mathematical Reviews,

Vol 13 No. 4

DAVYDOV, N. A.

PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 302 - I

BOOK

Call No.: QA43.D34

Authors: DAVYDOV, N. A., KOROVKIN, P. P., NIKOL'SKIY, V. N.

Full Title: COLLECTION OF PROBLEMS ON MATHEMATICAL ANALYSIS

Transliterated Title: Sbornik zadach po matematicheskomu analizu

Publishing Data

Originating Agency: None

Publishing House: State Educational - Pedagogical Publishing House
of the Ministry of Education RSFSR

Date: 1953

No. pp.: 195

No. of copies: 25,000

Editorial Staff

Editor: None

Tech. Ed.: None

Editor-in-Chief: None

Appraiser: None

Others: Prof. Romanovskiy, P. I. and Dotsent Sludskaya-Zhegalkina, M. I. made the final editing.

Text Data

Coverage: 2412 problems presented are divided into eleven groups, listed in 66 subgroups and eleven chapters, as shown in the attached abstracted Table of Contents. Solutions are given for every individual problem.

The book does not present anything new, but the system

1/5

Sbornik zadach po matematicheskomu analizu

AID 302 - I

adopted in the classification of the various problems, as well as some of the individual problems offered seem to be of pedagogical interest.

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Sbornik zadach po matematicheskomu analizu

AID 302-- I

Purpose: Principally for the preparation of teachers of mathematics and physics. The book is approved by the Ministry of Higher Education as a textbook in Pedagogical Institutes.

Facilities: None

No. of Russian and Slavic References: None

Available: Library of Congress

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DAVIDOV, N.A.

~~Generalization of Abel's second theorem. Usp.mat.nauk 10 no.3:~~
135-138 '55. (Convergence) (MIRA 9:1)

SUBJECT USSR/MATHEMATICS/Theory of functions CARD 1/3 PG - 447
 AUTHOR DAVYDOV N.A.
 TITLE On a property of the Cesaro method for the summation of series.
 PERIODICAL Mat. Sbornik, n.Ser. 38, 509-524 (1956)
 reviewed 12/1956

Let be given the series $\sum_{n=0}^{\infty} a_n$ with the complex terms a_n . Let $S_n = a_0 + a_1 + \dots + a_n$.

Furthermore

$$\sum_{n=0}^{\infty} S_n^{(p)} x^n = \frac{1}{(1-x)^{p+1}} \sum_{n=0}^{\infty} a_n x^n$$

$$\sigma_n^{(p)} = \frac{S_n^{(p)}}{\binom{u+p}{p}}, \quad \binom{n+p}{p} = \frac{\Gamma(n+p+1)}{\Gamma(n+1)\Gamma(p+1)} \quad n=0,1,2,\dots$$

Let \bar{G} be a closed convex set in the complex z-plane. The set \bar{G} is called (ϕ) -set for the sequence $\{S_n\}$ if to every $\epsilon > 0$ there exist a number $\lambda(\epsilon) > 1$ and a sequence of sections $[n_k; m_k]$ ($k=1,2,\dots$) of the natural number series such

Mat. Sbornik, n. Ser. 38, 509-524 (1956)

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λ - arbitrarily complex, p - integer, $0 < \lambda_k < 1$, $m_k - n_k = \lambda_k m_k + 2p$, $h_k = E \left[\frac{m_k - n_k}{p} \right]$.

$$2) \sum_{m=i+1}^p (-1)^{p-m} \binom{p}{m} \binom{(m-i)h_k + p - 1 - \nu}{p-1} \geq 0 \quad \text{for all integers } i, \quad 0 \leq i \leq p-1,$$

all integers ν , $1 \leq \nu \leq h_k$, for sufficiently large h_k (p, h_k integers)

and an equation

$$3) \sum_{i=0}^{p-1} \sum_{\nu=1}^{h_k} \left[\sum_{m=i+1}^p (-1)^{p-m} \binom{p}{m} \binom{(m-i)h_k + p - 1 - \nu}{p-1} \right] = h_k^p, \quad p \text{ and } h_k \text{ integers.}$$

By aid of the principal theorem some (partially known, see Obreškov, *Izvestija mat. Inst. Bulg. Acad. Sci* 1953, 1, No.1, 3-26) theorems are proved which are generalizations of the theorems of Tauber type of Hardy, Littlewood, Landau, R. Schmidt and Evgrafov.

INSTITUTION: Kalinin.

SUBJECT USSR/MATHEMATICS/Theory of functions CARD 1/2 PG - 494
 AUTHOR DAVIDOV N.A.
 TITLE On the reversion of an Abelian theorem.
 PERIODICAL Mat.Sbornik,n.Ser. 39, 401-404 (1956)
 reviewed 1/1957

Let the function $f(z) = \sum_{n=0}^{\infty} a_n z^n$ be analytic in $|z| < 1$ and continuous in the closed circle $|z-x_0| \leq 1-x_0$ for arbitrary x_0 , $0 < x_0 < 1$. Let $S_n = a_0 + a_1 + \dots + a_n$ ($n=0,1,2,\dots$). Let G be a closed convex set in the complex z -plane. Let G_ε be a convex region containing \bar{G} , where every point of the boundary of G_ε lies not farther than in the distance ε from \bar{G} . \bar{G} is called a (c)-set for the sequence $\{S_n\}$ if for every $\varepsilon > 0$ there exists a number $\gamma(\varepsilon) > 1$ and a sequence of sections $[n_k, m_k]$ ($k=1,2,\dots$) of the natural number series such that

$$S_{n_k+i} \in G_\varepsilon \quad \text{for } i=1,2,\dots,m_k-n_k$$

$$\frac{m_k}{n_k} > \gamma(\varepsilon) > 1 \quad (k=1,2,\dots), \quad \lim_{k \rightarrow \infty} n_k = +\infty.$$

Under these assumptions the following general theorem is valid: If $f(z)$ has