

LOPATIN, S. I.

"Basic Requirements for the Selection of a Type of Rolling Stock for Underground Transportation in Coal Mines for the USSR." Sub 6 Jul 51, Moscow Mining Institute I. V. Stalin.

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

SO: Sum. No. 488, 9 May 55.

LOPATIN, S.I., dots.kand.tekhn.nauk.

System of curved tracks in mines. Nauch.trudy MGU no.13/14:147-164
'54. (MIRA 10:10)

(Mine railroads)

LOPATIN, S.I., dotsent, kandidat tekhnicheskikh nauk.

~~Analysis of brake systems in electric mine trains.~~ Nauch. trudy MOI
no.16:243-268 '55 [cover '56]. (MLRA 10:4)
(Mine railroads) (Electric railroads--Brakes)

LOPATIN, S. I.

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 8,
pp 271-272 (USSR) 15-57-8-11826

AUTHOR: Lopatin, S. I.

TITLE: Methods of Braking Electric Railway Trains in Mines
(Analiz tormoznykh sredstv shakhtnykh elektropoyezdov)

PERIODICAL: Nauch. tr. po vopr. gorn. dela. Mosk. gorn. in-t,
1956, Sb 16, pp 243-268

ABSTRACT: The article includes a classification of systems of
braking according to two types, mechanical and electrical. Mechanical brakes are differentiated, according
to the form of their elements, into block-type, disk-
type, band-type, shoe-type, and braking against the
rails; they are further differentiated according to the
braking force, which may be manual, air, hydraulic,
electric-air, or electrical (solenoid and electro-
magnetic rail brakes). Electrical brakes are classed

Card 1/3

15-57-8-11826

Methods of Braking Electric Railway Trains (Cont.)

as rheostatic and recuperative. Formulas are given for determination of optimum load of the train depending on the coupling weight and the type of brake, and nomograms, based on these formulas, are included to facilitate practical calculations. There is a great difference between the maximum load as determined from the coupling weight of contact-type electric trains and as determined from the type of brake. Considerably less weight is tolerated in the latter case. Methods of improvement of brake systems of electric trains are noted; these include use of braking cars and of electromagnetic rail brakes with longitudinal or transverse magnetization. Formulas are given for determination of the number of braking cars in the body of the train. The expediency of using larger-load braking cars with block-type brakes is indicated. Where electromagnetic brakes are used, rails must be placed more accurately to achieve more effective braking by insuring uniformity of clearance between the shoe of the electromagnet and the rails. The article includes a curve of the variation in the lifting force of the electromagnet with the changes in air-
Card 2/3

15-57-8-11826

Methods of Braking Electric Railway Trains (Cont.)

space. A combined braking with electromagnetic shoe and block-type rail brakes is recommended. Here a deceleration up to 3.5 m/sec/sec in place of the usual deceleration of up to 0.5 m/sec/sec is achieved. This insures stopping of loaded trains even at high speeds in a small distance d , since $d = v^2/2a_1$, where v is the velocity of the train in uniform motion, in m/sec; a_1 is the deceleration of the train in m/sec/sec. Extensive use of rheostat braking is recommended as an auxiliary method. A test of improvement of brakes and of the hauling of heavy trains in the Donbas and Mosbas mines is described. The author draws the conclusion that the inadequacy of braking systems on trains is a cause of the incomplete utilization of contact-type electric trains in the mines. Further development of brake systems will mean a more complete use of electric railway transport.

Card 3/3

V. K. Yasnyy

Lopat'nikov, S.I.

GORONT'YEV, Vladimir Ivanovich, prof.; KARELIN, Nikolay Timofeyevich, dotsent;
LOPAT'NIKOV, S.I., otvetstvennyy red.; OKHRIMENKO, V.A., red.izdatel'stva;
BEKKER, O.G., tekhn.red.; ALADOVA, Ye.I., tekhn.red.

[Mine haulage] Rudnichnyi transport. Moskva, Ugletekhizdat, 1957.
546 p. (MIRA 11:1)
(Mine haulage)

LOPATIN, S.I., dotsent, kandidat tekhnicheskikh nauk.

~~_____~~
Use of reinforced concrete ties for mine railroads. Ger. zhur. no.5:
13-16 My '57. (MIRA 10:6)

1. Moskovskiy gornyy inatitut. (Mine railroads)
(Railroads--Ties, Concrete)

LOPATIN, S.I.

SAVRANSKIY, Anan'y Yefimovich, inzh.; UCHVATOV, Pavel Gavrilovich, inzh.;
LOPATIN, S.I., dots., otv. red.; BYKHOVSKAYA, S.N., red. izd-va.;
SABITOV, A., tekhn. red.

[Track management in underground transportation] Putevye khozisyatvo
podzemnogo transporta. Moskva, Ugletekhizdat, 1958. 229 p.
(MIRA 11:12)

(Nine railroads)

LOPATIN, S.I.

Distribution of rail joints on mine tracks. Nauch. trudy MGI
no. 20:153-165 '58. (MIRA 11:8) ,
(Mine railroads)

POLYAKOV, Nikolay Sergeyevich, prof.; SHTOKMAN, Il'ya Grigor'yevich, prof.; KOMAROVA, Yevgeniya Kuz'minichna, dotsent; SPIVAKOVSKIY, A.O., prof., retsenzent; ANDREYEV, A.V., dotsent, retsenzent; VASIL'YEV, N.V., dotsent, retsenzent; YEVNEVICH, A.V., dotsent, retsenzent; LOPATIN, S.I., dotsent, retsenzent; SOLOD, G.I., dotsent, retsenzent; SHAKHMEYSTER, L.G., dotsent, retsenzent; SHORIN, V.G., dotsent, retsenzent; SAMOYLYUK, N.D., inzh., retsenzent; KOLOMIYTSYEV, A.D., otv.red.; SHKLYAR, S.Ya., tekhn.red.; KONDRAT'YAVA, N.A., tekhn.red.

[Problems and exercises on mine haulage] Sbornik zadach i uprashnenii po rudnichnomu transportu. Izd.2., dop. i perer. Moskva, Ugletekhizdat, 1959. 256 p. (MIRA 13:4)

1. Chlen-korrespondent AN USSR (for Polyakov). 2. Chlen-korrespondent AN SSSR (for Spivakovskiy). 3. Kafedra rudnichnogo transporta Moskovskogo gornogo instituta (for Spivakovskiy, Andreyev, Vasil'yev, Yevnevich; Lopatin, Solod, Shakhmeyster, Shorin). (Mine haulage)

S/169/61/000/012/043/089
D228/D305

AUTHORS: Kondrat'yev, O. K., Lopatin, S. S., and
Manilov, S. A.

TITLE: The procedure and some preliminary results of
seismo-glaciologic investigations in Antarctica

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1961,
61, abstract 12V435 (V sb. Sov. antarkt.
ekspeditsiya. 10. L., Morsk. transport, 1960,
37-95)

TEXT: The seismic group of the intra-continental detachment
of the Soviet Antarctic Expedition conducted large-scale seismic
work on the determination of the ice thickness and on the study
of the physico-mechanical properties of ice in 1956-1957. A
block version of the type CC-26-51-D (SS-26-51-D) seismic sta-
tion, a portable ПСС-24-П (PSS-24-P) station, and СПМ-16А
(SPM-16A) and СПЭД-56 (SPED-56) seismographs were used in the

Card 1/3

S/169/61/000/012/043/089
D228/D305

The procedure and some...

work. The performance of the instruments was sufficiently stable. The explosion holes were bored by YUS-1 (UShB-1) auger machine to a depth of up to 100 m. Communication with the seismic station was made by wires and by radio. The operations were conducted in the coastal area and on the Mirny-Pionerskaya profile. The investigational procedure is stated in detail, and the conclusion is drawn about the expediency of applying the reflection method and the high- and middle-frequency modifications of the correlation refraction method for studying the ice-sheet's structure. The most promising method for combating the interference is to deepen the charge to 20 - 30 m. The mean effective velocity of wave propagation comprises 3760 m/sec. in the ice and 5600 - 5830 m/sec. in the basement. Waves reflected from the surface of morainic ice were recorded. The characteristics of the recorded waves are given, and it is noted that the propagational character of the transverse, longitudinal, surface, and reflected waves changes regularly with increasing distance inland. The intensity of

Card 2/3

S/169/61/000/012/043/089
D228/D305

The procedure and some...

the background interference increases away from the coast. It is suggested that the causes of this are related to the structure of the upper stratum. The depths of the sub-ice basement were obtained at 93 points. The gradual increase in the ice-sheet's thickness according to the measure of removal from the seaboard is revealed (from 150 m near Mirnyy to 2400 m near Pionerskaya). For the first 200 m of the profile, the absolute elevation of the bed varies from - 475 m to + 180 m. Its rise to a maximum height of 700 m above sea-level is noted on the 200 - 775 km section. It is established that the bases of Masson and Drigal'skiy Islands lie below sea-level. [Abstracter's note: Complete translation.]

Card 3/3

BELYAKOV, P.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIN, I.N.;
 GUREVICH, G.M.; GOBUNOVA, P.I.; KONNOV, A.S.; KALANTAROVA, M.V.;
 KASHIRSKIY, A.Ya.; KAZANCHHEYEV, Ye.N.; LEKSUTKIN, A.F.; LETI-
 CHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSEVALOV, V.N.;
 SUBBOTINA, V.P.; TARASIYCHUK, N.P.; FEDOTOV, S.D.; FISENKO, K.N.;
 EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALE-
 CHIN, N.I.; DADAGOV, I.A.; YERMOSHINA, V.I.; ZHUKOV, I.V.; ZIMIN,
 D.A.; IVANNIKOV, A.Ya.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY,
 A.F.; SEREZHNIKOV, V.K.; SEMIGLASOV, M.D.; SOKOLOV, A.V.; STEPANOV,
 V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.;
 CHIKINDAS, G.S.; SHECHERBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.;
 OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO,
 I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ye.; SUSLIN, V.A.; BRUS, A.Ye.;
 VOLYNSKIY, S.A.; KLYUYEV, V.A.; ISPRATOV, A.G.; TIKHOMIROV, I.F.;
 BUTYRIN, Ya.N.; VOLYNSKIY, S.A.; MINEYEV, M.F.; MAL'TSEV, V.I.;
 VIDETSKIY, A.F., kand.tekhn.nauk, glavnyy red.; DEMIDOV, A.N., red.;
 KRAVETS, A.L., red.; KLIMOVA, Z.I., tekhn.red.

[Industrial Astrakhan] Promyshlennaia Astrakhan'. Astrakhan',
 Izd-vo gazety "Volga," 1959. 318 p. (MIRA 12:11)

1. Astrakhan (Province) Ekonomicheskii administrativnyy rayon.
 (Astrakhan Province--Economic conditions)

LOPATIN, V.

Disease prophylaxis at the Gomel Agricultural Machinery Plant
from 1955 to 1958. Zdrav.Belor. 5 no.6:53-55 Je '59.
(MIRA 12:9)

1. Nachal'nik medsanohasti zavoda Gomsel'mash.
(GOMEL--AGRICULTURAL MACHINERY INDUSTRY--HYGIENIC ASPECTS)

LIBOV, A.S. (Leningrad, ul. Lebedeva, d.4/2, kv.28); KROKHALEV, Yu.S.;
LOPATIN, V.A.; DZUTSOV, N.K.

Use of hypothermia in cerebral edema after an operation on the
heart with artificial blood circulation. Vest.khir. no.5:78-81
'62. (MIRA 15:11)

1. Iz 1-y khirurgicheskoy kliniki usovershenstvovaniya vrachey
(nach. - prof. P.A. Kupriyanov) Voenno-meditsinskoy ordena Lenina
akademii im. S.M. Kirova.

(BRAIN—DISEASES) (HEART—SURGERY) (HYPOTHERMIA)
(EDEMA)

LOPATIN, V.A.; MUKHIN, L.K.; ZHIGACH, K.F.

Influence of circulating fluids on the stability of swelling clay.
Izv.vys.ucheb.zav.; neft' i gaz 6 no.11:29-34 '63. (MIRA 17:9)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im. akad.I.M.Gubkina.

GULITSKIY, N.I., inzh.; LOPATIN, V.A., inzh.; CHURIN, V.M., inzh.

Automatic control of the power output of a charge-resistance furnace.
Mekh. i avtom. proizv. 17 no. 2:8-9 F '63. (MIRA 16:2)
(Electric furnaces) (Electric controllers)

SHANIN, Yu.N.; UVAROV, B.S.; MESHCHERYAKOV, N.A.; STASYUNAS, V.P.; KARIMOVA
T.V.; KIVIK, A.A.; KROKHALEV, Yu.S.; LIVANOVA, T.B.; LOPATIN, V.A.;
LYUBICHEVA, Z.L.; SIPCHENKO, V.I.

Characteristics of the anesthesia and work of the anesthesiolo-
gist in surgery with artificial blood circulation. Grud.khir.
5|no.1:116-121 Ja-F'63. (MIRA 16:7)

1. Iz kafedry anesteziologii (nachal'nik - deystvitel'nyy chlen
AMN SSSR prof. P.A.Kupriyanov) Voenno-meditsinskoy ordena Lenina
akademii imeni S.M. Kirova.
(SURGERY, OPERATIVE) (BLOOD—CIRCULATION, ARTIFICIAL)

IOPATIN, V.A.; MUKHEIN, L.K.

Analyzing complications in case of drilling of deep wells in unstable clay material. Buzanie no.7:5-7 '64.

(MIRA 18:5)

1. Moskovskiy ordena Trudovogo Krasnogo Znameni institut neftekhimicheskoy i gazovoy promyshlennosti im. akademika Gubkina.

LOPATIN, V.A.; MUKHIN, L.K.; ZHIGACH, K.F.

Effect of the hydraulic pressure on the stability of clay material in the drilling of wells. Izv. vys. zav.; nef't i gaz 7 no.6:27-32 '64. (MIRA 17:9)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika Gubkina.

LOPATIN, V.A.; MUKHIN, L.K.; ZHIGACH, K.F.

Stability of clay rocks in the drilling of deep wells with high
bottom temperatures. Izv. vys. ucheb. zav.; neft' i gaz 7 no.7:
23-28 '64. (MIRA 17:9)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im. akademika I.M. Gubkina.

LOPATIN, V.D., dotsent.

Principal conclusions derived from the geobotanical exploration of
the Tesey Marches. Vest. Len.un.2 no.2:50-60 F '47. (MIRA 9:6)
(Luga Valley--Phytogeography)

LOPATIN, V.D., dots.

Causes for the lack of trees in swamps. Vest. LGU 2 no.9:32-42
S '47. (MIRA 12:9)

(Swamps)

LOPATIN, V. D.

"Wild Rice," Nauka i Zhizn', No. 4, 1948. Cand.

Biol. Sci.

LOPATIN, V.D., dots.

~~Hydrobiological~~ significance of swamps along the upper reaches of
rivers. Vest. LGU 4 no. 3:37-49 F '49. (HIR: 12:7)
(Swamps)

LOPATIN, V. D.

20616 LOPATIN, V. D. Ochesk rastitel'nosti Gradkogo bolota. (tosnen rayon. Ieningr. obl)
Uchen. zapiski (Leningr. gos. un-t im. Zhdanova). Seriya geogr. nauk, vyp. 5, 1949,
s. 152--74 - Bibliogr: s. 174

SO: LETOPIS ZHURNAL STATEY - Vol 28 - Moskva - 1949

LOPATIN, V.D.

Outline of the vegetation of Gladkoye Swamp. Uch.zap.Len.un.
no.104:152-174 '49. (MIRA 10:1)
(Gladkoye Swamp--Botany)

LOPATIN, V. D.

(Indian rice; its cultivation in the northern part of the USSR)
Leningrad, 1951. 39 p. (53-24036)

SB191.R5L556

1. Rice - Russia, Northern.

ISACHENKO, A.G.; LOPATIN, V.D.

Sergei Petrovich Suslov; obituary. Vest.Len.un. 9 no.1:226-227
Ja '54. (MLRA 9:7)

(Suslov, Sergei Petrovich, 1893-1953)

IOPATIN, V.D.

**Relation of pH value and the rate of thawing on vegetation and
microrelief in an upland swamp. Vest.Len.un.11 no.12:86-98 '56.
(Swamps) (MIRA 9:9)**

LOPATIN, V.D.

Plant associations and facies of the "Chisty Mokh" peat bog. Uch.
zap. Len.un. no.213:240-256 '56. (MIRA 10:3)
(Peat bogs)

LOPATIN, V.D.

Type of humidity cycles in Karelia. Izv.Kar.i Kol'.fil.AN SSSR
no.4:97-106 '59. (MIRA 13:5)

1. Institut lesa Karel'skogo filiala AN SSSR.
(Karelia--Soil moisture)

LOPATIN, V.D.

Types of humidity cycles and the productivity of natural vegetation.
Soob.Sakhal.kompl.nauch.-issl.inst. AN SSSR no.8:85-108 '59.

(MIRA 14:4)

(Plants, Effect of soil moisture on)

LOPATIN, V.D.; BUKHTEYEVA, A.V.

Characteristics of vegetation zones on the island of Sakhalin.
Izv.Sib.otd.AN SSSR no.10:103-111 '59. (MIRA 13:4)

1. Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy institut
Sibirskogo otdeleniya AN SSSR.
(Sakhalin--Phytogeography)

LOPATIN, V.D.

Outlook for increasing the yields of plants by oxygen introduction into irrigated soils without the removal of water. Bot. zhur. 44 no.11:1673-1676 N '59. (MIRA 13:4)

1. Institut leba Karel'skogo filiala Akademii nauk SSSR,
g. Petrosavodsk. (Soil aeration)

LOPATIN, V.D.; BUKHTEYEVA, A.V.

Ecological and phytocoenotical series of forests in Sakhalin.
Trudy Sakh. kompl. nauch.-issl. inst. AN SSSR no. 9:64-67 '60.
(MIRA 14:4)
(Sakhalin--Forests and forestry)

LOPATIN, V.D.

Establishing the scope of association and delineating of a
phytoceposis in nature. Vest. LGU 15 no.18:110-123 '60.
(MIRA 13:9)

(Plant communities)

KATS, N.Ya.; LOPATIN, V.D.

"Atlas of plant remains occurring in peat" by A.V.
Dombrovskia, M.M.Koreneva, S.N.Tiurenov. Reviewed by
N.IA.Kats, V.D.Lopatin. Bot.zhur. 45 no.8:1237-1240
Ag '60. (MIRA 13:8)

1. Institut biologii Karel'skogo filiala Akademii nauk
SSSR, Petrosavodsk.
(Peat) (Dombrovskia, A.V.) (Koreneva, M.M.)
(Tiurenov, S.N.)

LOPATIN, V.D.

Boundaries of vegetation belts on the Sakhalin Island mountains
and the determining factors. Izv.Vses.geog.ob-va 92 no.4:
349-353 1-Ag '60. (MIRA: 13:8)
(Sakhalin--Physical geography)

LOPATIN, V.D., kand.biolog, nauk

Draining marsh lands in the Karelian S.S.R. Vest.AN SSSR 31 no.5:
123-124 My '61. (MIRA 14:6)
(Karelia—Drainage)

LOPATIN, V.D.

Proposals for compiling a Russian nomenclature of lower taxonomic units of plants. Bot. zhur. 46 no.11:1667-1668 N '61, (MIRA 15:2)

1. Institut biologii Karel'skogo filiala AN SSSR, Petrozavodsk.
(Botany--Nomenclature)

LOPATIN, V.D.

On the mutual relations between coenotypes of dominant plants
and their natural habitats. Dokl. AN SSSR 148 no. 4: 956-957 F
'63. (MIRA 16:4)

1. Institut biologii Karel'skogo filiala AN SSSR. Predstavleno
akademikom V.N. Sukachevym.
(Botany—Ecology)

L 64364-65

ACCESSION NR: AP5016751

days for previous brick furnace). The editor comments that the burner could also be used directly on its trailer and later used in its normal capacity. Orig. art. has: 2 figures.

ASSOCIATION: Bryanskoye upravleniye khleboproduktov (Bryansk Administration for Grain Products)

ENCL. 01

SUB CODE: IE

CHUCHINA, M.K., inzh.; SULIMA, N.T., inzh.; LOPATIN, V.F., inzh.; CHERKASOV,
V.G., inzh.

Commentary on the article by Engineer E.V.Liul'ko "Regulating the
computation and payment of general mine expenses in mining."
Shakht.stroi. 5 no.4:28-30 Ap '61. (MIRA 14:5)

1. Trest Makeyevshakhtostroy (for Sulima). 2. Institut Kuzbassgipro-
shakht (for Lopatin). 3. Ukrainskiy nauchno-issledovatel'skiy institut
organizatsii i mekhanizatsii shakhtnogo stroitel'stva (for Cherkasov).
(Mining industry and finance)
(Liul'ko, E.V.)

S/147/62/000/004/018/019
E193/E483

AUTHOR: Lopatin, V.I., Engineer

TITLE: Scientific-technical Conferences at the Moskovskiy
Ordena Lenina aviatsionnyy institut im. S.Ordzhonikidze
(Moscow Order of Lenin Aviation Institute imeni
S. Ordzhonikidze)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy.
Aviatsionnaya tekhnika, no.4, 1962, 158-160

TEXT: An inter-collegiate conference took place at the Moscow
Aviation Institute from February 1 - 5, 1962, during which 26 papers
concerned with the stability and control of mechanical systems in
aeromechanics were delivered. Plenary session - Professor,
Doctor N.N.Krasovskiy, Professor, Doctor A.M.Letov: Lyapunov
functions and the problem of optimal control; Professor, Doctor
A.I.Lur'ye: the problems of the stability of motion; Professor,
Doctor G.V.Kamenkov: on the theory of nonlinear oscillations.
Stability and control section - Professor, Doctor Ye.A.Barbashin:
some methods of improving the quality of stability of controlled
systems; Docent, Candidate of Technical Sciences F.A.Mikhaylov:
Card 1/7

Scientific-technical Conferences ...

S/147/62/000/004/018/019
E193/E483

a method of analysis of free oscillations of linear systems with variable parameters; Professor, Doctor K.P.Persidskiy: the eigen value spectrum of an infinite system of differential equations; Docent, Candidate of Physicomathematical Sciences S.N.Shimanov: stability in the critical cases of systems with delay; Aspirant E.F.Fatkhulin: stabilizing the relative movement of a solid body with the aid of three flywheels; Engineer S.N.Gorbatenko: the problem of stability of nonlinear oscillations of material systems; Engineer A.I.Ogurtsov: stability and integral evaluation of the quality of some nonlinear automatic control systems; Professor, Doctor A.S.Galiullin: some problems of dynamic programming; Docent, Candidate of Technical Sciences S.M.Makarov: the problem of stability of motion to the first approximation; Docent, Candidate of Technical Sciences V.M.Matrosov: the problem of stability of motion; Professor, Doctor N.N.Krasovskiy: an approximate solution of a problem of optimal control in a system with a retarded action; Professor, Doctor K.P.Persidskiy: extension of the second Lyapunov method to differential equations in a Banach space.
Card 2/7

Scientific-technical Conferences ... S/147/62/000/004/018/019
E193/E483

Aeromechanical section - Professor, Doctor K.K.Fedyayevskiy, Candidate of Technical Sciences L.Kh.Blyumina: loss of damping in elongated bodies at large angles of attack (in incompressible flow); Docent, Candidate of Technical Sciences I.G.Izvol'skiy: stability of motion of hydrofoil-craft; Docent, Candidate of Technical Sciences V.I.Merkulov: the non-uniqueness of solutions of the equations of motion of a viscous fluid and the existence of a form of motion with vanishing drag coefficient; Professor, Doctor G.G.Tumashev: the problem of flow past a wing with a jet flap; Docent, Candidate of Technical Sciences V.S.Maksimov, Engineer S.D.Labinov: an experimental study of blowing into the boundary layer from the flaps of a transport aircraft; Professor, Doctor A.M.Mkhitaryan: a new method of control with the aid of the boundary layer; Professor, Doctor K.K.Fedyayevskiy and Engineer A.S.Ginevskiy: turbulent boundary layer of an incompressible fluid on a porous, curved surface; Professor V.I.Putyata: flow of ultrasonic and hypersonic streams around a cone; Professor, Doctor A.I.Nikitin: development of the work of N.Ye. Zhukovskiy and S.A.Chaplygin on the hydrodynamic theory of
Card 3/7

Scientific-technical Conferences ... S/147/62/000/004/018/019
E193/E483

lubrication; Candidate of Technical Sciences Ye.V.Tarasov: the optimum regimes of flight of cosmic vehicles; Docent, Candidate of Technical Sciences V.M.Karagodin: some problems in the mechanics of bodies of variable composition.
11 Papers were delivered at a conference on the effect of technological joining processes on the strength and durability of parts - Professor, Doctor of Technical Sciences V.P.Grigor'yev; study of the strength and durability of joints made by various methods; Senior Lecturer A.I.Yarkovets: the effect of technological factors on the quality of bolted joints; Candidate of Technical Sciences V.V.D'yachenko: automatic welding of molybdenum and its alloys in controlled atmospheres; Engineer M.N.Belikov: search for rational variants in the construction of high-standard riveted joints and investigation of their strength; Docent, Candidate of Technical Sciences S.V.Yeliseyev: study of soft-soldered joints in aluminum alloys; Engineer V.N.Shavyrin: application of glued joints in aluminum-alloy constructions; Candidate of Technical Sciences A.M.Pugacheva: means of increasing the field of application of
Card 4/7

Scientific-technical Conferences ... S/147/62/000/004/018/019
E193/E483

spot- and seam-welded joints for light-alloy constructions;
Docent S.A.Vigdorchik: analysis of promising methods of joining
in connection with the application of new materials in flying
craft; Docent, Candidate of Technical Sciences V.V.Kosmodem'yanskiy:
increasing the reliability of riveted joints in repairs of flying
craft; Engineer Yu.G.Furs: strength and durability of single-bolt
joints as affected by certain constructional and technological
factors; Candidate of Technical Sciences G.A.Deryagin: a study
of the possibility of increasing the load-carrying capacity of
bolted joints under repeated static, pulsating and fluctuating
loads. 5 Papers on the problem of heat-exchange were delivered
at the conference held in April, 1962 - Doctor of Technical
Sciences V.S.Avduevskiy: analysis of a three-dimensional laminar
boundary layer; Aspirant B.M.Galitseyskiy: solution of a
differential equation of motion of gas with friction and heat-
exchange; Doctor of Technical Sciences P.L.Povarnin: application
of the principles of thermodynamic similarity to the problem of
heat-transfer; Docent, Candidate of Technical Sciences
V.I.Kostenkov: heat-emission from a heated surface to boiling
Card 5/7

Scientific-technical Conferences ... S/147/62/000/004/018/019
E193/E483

binary mixtures; Docent, Candidate of Technical Sciences
V.P.Solntsev: heat-exchange between a gas and a rough surface
near the leading stagnation point of a blunt body.
9 Papers were delivered at a conference held on June 4-5, 1962
at the fakul'tet organizatsii i ekonomiki proizvodstva letatel'nykh
apparatov (Division of Organization and Economics of Aircraft
Production) concerned with problems of mechanization and
automation of production and factory management - Docent
I.B.Kuksin, Engineer L.A.Lesina: some problems of the
organization of production in the automatic stages of mechanical
treatment; Docent P.G.Popov: aims and prospects of development
in the mechanical control of production; Docent, Candidate of
Technical Sciences L.M.Olyshevets: the main directions of
mechanization of the planning and calculating work at machine-
building factories; Engineer V.I.Bespalov: application of linear
programming for the construction of graphs of smooth functioning
and calculations of incomplete production on single-item
direct-flow lines; V.A.Lapin: organization of centralized
control of production using modern technical methods;
I.M.Dvoretzkiy: mechanization of the functioning of technological
Card 6/7

Scientific-technical Conferences ... S/147/62'000/004/018/019
E193/E48'

services in machine-building plants; Candidate of Technical Sciences Ye.I.Sherman, Senior Lecturer V.I.Kochetkov: application of mechanized and automated methods for time and motion study; V.S.Kortevich: analysis of cost of production of aircraft components using electronic computers; Professor, Doctor of Economic Sciences D.P.Andrianov: main problems of estimating the economic efficiency of mechanization and automation in production and control.

SUBMITTED: October 23, 1962

Card 7/7

KOKORIN, G.A.; LOPATIN, V.I.

Determining the magnification of an EM-5 electron microscope. Zav.
lab. 29 no.8:974-975 '63. (MIRA 16:9)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy me-
tallurgii imeni I.P.Bardina.
(Electron microscope) (Photomicrography)

ACC NR: AP7002180

SOURCE CODE: UR/0146/66/009/006/0112/0118

AUTHOR: Lopatin, V. I.

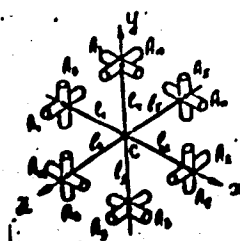
ORG: Moscow Aviation Institute im. Sergo Ordzhonikidze (Moskovskiy aviatsionnyy institut)

TITLE: On the use of linear accelerometers for measuring the absolute angular velocity of an aircraft

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 6, 1966, 112-118

TOPIC TAGS: auxiliary aircraft equipment, inertial navigation equipment, accelerometer

ABSTRACT: The author discusses various systems for locating linear accelerometers on the fuselage of an aircraft to measure its absolute angular velocity and angular acceleration for purposes of inertial navigation without a stabilized platform. It is shown that the algorithm for calculating the components of absolute angular velocity depends on the orientation of the axes of sensitivity of the accelerometers as well as on the number of instruments used. The system which gives the simplest algorithm uses 12 accelerometers arranged as shown in the figure. In this case, the components of angular acceleration are given by the equations



Card 1/2

UDC: 531.768

ACC NR: AP7002180

$$D\omega_x = \frac{1}{2} \left(\frac{A_{10} - A_9}{I_5 + I_4} - \frac{A_8 - A_7}{I_5 + I_6} \right),$$

$$D\omega_y = \frac{1}{2} \left(\frac{A_{12} - A_{11}}{I_6 + I_6} - \frac{A_2 - A_1}{I_1 + I_2} \right),$$

$$D\omega_z = \frac{1}{2} \left(\frac{A_3 - A_7}{I_1 + I_2} - \frac{A_4 - A_5}{I_3 + I_4} \right).$$

The components of angular velocity may be determined by simple integration of these expressions. Orig. art. has: 3 figures, 1 table, 32 formulas.

SUB CODE: 017/ SUBM DATE: 01Apr66/ ORIG REF: 003

Card 2/2

OSTROVSKIY, V.Ye.; KUL'KOVA, N.V.; LOPATIN, V.L.; TEMKIN, M.I.

Modifying action of additives on the ethylene oxidation catalyst.
Kin.i kat. 3 no.2:189-193 Mr-Apr '62. (MIRA 15:11)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova.
(Ethylene) (Oxidation) (Catalysts)

PERESYPKIN, Vladimir Feodorovich; DOLIN, Vladimir Gdaliich·
YEFIMOV, Gendrikh Aleksandrovich; LOBOV, Viktor
Pavlovich; LOPATIN, Valentin Matveyevich;
MEL'NICHUK, Aleksandra Semenovna; CHERNOV, N.P.,
red.

[Present-day chemical means for plant protection
(pesticides)] Sovremennye khimicheskie sredstva za-
shchity rastenii (pestitsidy). Kiev, Urozhai, 1964.
345 p. (MIRA 18:1)

BLAGOVIDOVA, Yu.A.; LOPATIN, V.P.; SHEKHTER, L.I.

Sterilization of air in table boxes. Apt. delo. 4 no.6:3-5 H-D
'55. (MLRA 9:1)

1. Iz kafedry tekhnologii lekarstvennykh form i galenovykh
preparatov (zav.- dotsent A.S. Prozorovskiy) Moskovskogo farmatsevt-
icheskogo instituta Ministerstva zdavookhraneniya SSSR.

(ANTISEPTIS AND ASEPSIS,

pharma. sterilization of air in table boxes)

(AIR,

sterilization of air in table boxes in pharm)

LIVSHITS, P.Yu.; LOPATIN, V.S.; MARKOVA, K.G.; ROGOV, M.A.

Electronic device for moisture measurement in PIV retted flax
tow. Tekst. prom. 25 no.3:70-71 Mr '65. (MIRA 18:5)

1. Vedushchiye inzhenery Leningradskogo spetsial'nogo
konstruktorskogo byuro tekstil'noy promyshlennosti (for
Livshits, Lopatin, Markova). 2. Glavnyy konstruktor
Leningradskogo spetsial'nogo konstruktorskogo byuro
tekstil'noy promyshlennosti (for Rogov).

LOPATIN, V. V.

"Calculating the Strength of Cylindrical Rope Line

Casings with Conduitless Packing." Elek. Stan.,

No. 3, 1949. Dr., Can Tech. Sci.

ACCESSION NR: AT4039457

S/2526/64/000/026/0086/0094

AUTHOR: Kremn'ov, O. O., (Kremnev, O. A.); Satanovs'ky'y, A. L. (Satanovskiy, A. L.)
Lopatn, V. V.; Guk, T. M. (Guk, T. N.)

TITLE: Study of heat exchange during subaudio and audio vibrations of smooth and ribbed cylindrical surfaces in a motionless liquid

SOURCE: AN UkrRSR. Insty*tut telpoenergety*ky*. Zbirny*ky*. Zbirny*k prats', no. 26, 1964. Teploobmin ta gidrody*namika (Heat exchange and hydrodynamics), 86-94

TOPIC TAGS: heat exchange, heater, electric heater, electric water heater, stationary heater, vibrating heater, cylindrical heater

ABSTRACT: The article deals with an investigation of the thermal emission of smooth and ribbed heaters (0.8-20 mm in diameter) vibrating (amplitude = 0.5-11 mm) at 5-100 cycles/sec. in a large volume of water. The results of this study indicate the possibility of substantially increasing the liberation of heat: by 5 or 6 times (from 620 to 3500 watts/m² degree, for example) in the case of the vibration of smooth-surfaced heaters, and by 14 or 15 times in the case of ribbed heaters, in comparison with stationary heaters under the same conditions. On the basis of the research carried out, the authors graph the effect of

Card 1/2

ACCESSION NR: AT4039457

the frequency and amplitude of the vibrations and of the diameter of the heater on the coefficient of thermal emission or degree of intensification of the process, as well as the effect of the ratio between the vibration amplitude and the diameter $\frac{2a}{d}$ of cylinders vibrating in a large body of water. It was established that for different heater diameters, the ratio $\frac{2a}{d}$ has rational boundaries of $1 < \frac{2a}{d} < 10$, within which the maximum degree of intensification of the heat emission process is achieved. Recommendations regarding the selection of the pertinent parameter values, based on the results of the study, are given in the article. Orig. art. has: 5 figures and 2 formulas.

ASSOCIATION: Insty*tut teploenergety*ky* AN UkrRSR (Institute of Thermal Energetics, AN UkrRSR)

SUBMITTED: 20May62

DATE ACQ: 12Jun64

ENCL: 00

SUB CODE: TD, ME

NO REF SOV: 001

OTHER: 006

Card 2/2

LOPATIN, Ye.

Use wage funds economically. Zhil.-kom.khoz. 12 no.8:20-21
Ag '62. (MIRA 16:2)

1. Zamestitel' nachal'nika otdela shtatov, truda i zarabotnoy
platy Ministerstva kommunal'nogo khozyaystva BSFSR.
(Wages)

LOPATIN, Ye. A.; BUROVA, A.M.

Beds for a pediatric traumatologic department. Ortop., travm. i
protez. 27 no. 1:80-82 Ja '66 (MIRA 19:1)

1. Iz Instituta po proyektirovaniyu lecheno-profilakticheskikh
uchrezhdeniy "Giprozdrav" (direktor - B.M. Saprykin).

DOROKHOV, M.P.; LOPATIN, Ye.D.; ZAMYSHLYAYEVA, I.M., red. izd-va;
BOLOTINA, A.V., red. izd-va; LELYUKHINA, A.A., tekhn. red.

[Labor and wages for those employed in communal housing and services] Trud i zarabotnaia plata v zhilishchno-kommunal'nom khoziaistve. Moskva, Izd-vo M-va kommun. khoz.RSFSR. Pt.1. 1962.
597 p. (MIRA 15:7)
(Labor and laboring classes--Handbooks, manuals, etc.)
(Wages--Handbooks, manuals, etc.)

DOROKHOV, M.P.; LOPATIN, Ye.D.; SMIRNOV, P.A.

[Industrial hygiene and safety measures in municipal services; collection of the most important government regulations, orders of the Ministry of Municipal Services of the R.S.F.S.R. and rules for safety measures] Okhrana truda i tekhnika bezopasnosti v kommunal'nom khoziaistve; sbornik vazhneishikh postanovleni pravitel'stva, prikazov Ministerstva kommunal'nogo khoziaistva RSFSR i pravil po tekhnike bezopasnosti. Pod red. M.P.Dorokhova. Moskva, Izd-vo M-va kommun.khoz.RSFSR. Pt.2. 1963. 422 p.

(MIRA 17:4)

1. Russia (1917- R.S.F.S.R.) Ministerstvo kommunal'nogo khozyaystva.

YEFREMOV, Yu.M.; RATKEVICH, G.I.; LOPATIN, Ye.A.

Self-unloading percolator. Sbor. nauch. trud. TSANIY 4:100-106
#63. (MIRA 17:3)

1. Laboratoriya tekhnologii lekarstvennykh form i galenovykh preparatov (rukovoditel' laboratorii - kand. farm. nauk O.F. Belova) Tsentral'nogo aptechnogo nauchno-issledovatel'skogo instituta i Tsentral'noye proyektno-konstruktorskoye byuro Ministerstva zdravookhraneniya SSSR.

SIMKIN, B.A., kand. tekhn. nauk; LOPATIN, Yu.S., inzh.

Selection of optimum conditions for using drilling rigs
with roller bits in open-pit mines. Ugol' 38 no.9:30-33
S '63. (MIRA 16:11)

LOPATIN, Yu.S.

Investigating cuttings in case of air drilling and water flushing.
Trudy VNIIBT no.14:130-139 '65. (MIRA 1875)

LOPATIN, Yu.T.

Antifriction characteristics of polyamides. Mashinostroitel'
no.5:33 My '62. (Amides) (MIRA 15:5)

BULGAKOV, V.Ya.; LOPATIN, Yu.T.

Increasing the stability of dimensions and engineering properties
of parts made of polyamides. Mashinostroitel' no.1:32-33 Ja '63.
(Amides) (MIRA 1612)

VADACHKORIYA, V.I.; LOPATIN, Yu.T.

Synthetic construction materials. Mashinostroitel' no.6:
21-23 Je '63. (MIRA 16:7)

(Machinery industry) (Polymers)

LOPATIN, Yu.T.

Republican conference on plastics. Mashinostroitel' no.2:38
F '64. (MIRA 17:3)

LOPATIN, Yu.T.

First Georgian Scientific and Technical Conference on the Use
of Plastics in the Machinery Manufacture of the Georgian S.S.R.
Plast. massy no.2:77 '64. (MIRA 17:8)

VADASHKORIYA, V.I., kand. tekhn. nauk; LOPATIN, Yu.T.

Polyamides as structural materials for machines, Mashinc-
stroitel' no. 7:38-41 J1 '64. (MIRA 17:8)

LOPATIN, Yu.T.

Scientific and technical conference on the application of plastics
in machine-tool manufacture. Plast.massy no.7:69 '64.

(MIRA 17:10)

LOPATIN, Yu.T.

Scientific technical conference on the use of plastics in the
machine-tool industry. Stan. i instr. 35 no.7:44 Ji '64.
(MIRA 17:10)

BULGAKOV, V.Ya., inzh.; LOPATIN, Yu.T., inzh.

Investigating moisture absorption of polyamides. Vest. mashinostr.
44 no.9:50-52 S '64. (MIRA 17:11)

VADACHEKORIYA, V.I., kand. tekhn. nauk; LOPATIN, Yu.T., kand. tekhn. nauk

Machine parts made of polymer materials. Mashinostroitel' no.12:
35-37 D '65. (MIRA 18:12)

L 13810-66 EWT(m)/EWP(j)/T/ETC(m) WW/RM

ACC NR: AP6002489

SOURCE CODE: UR/0191/66/000/001/0069/0070

AUTHORS: Bulgakov, V. Ya.; Lopatin, Yu. T.

32
02

ORG: none

TITLE: Waterproofing of textolites with polyorganosiloxanes

SOURCE: Plasticheskiye massy, no. 1, 1966, 69-70

TOPIC TAGS: organosilicone compound, polysiloxane / TU MKhP 2416 52 polyorganosiloxane, GKZh 94 polyorganosiloxane, PTK textolite, PT textolite, PT-1 textolite

ABSTRACT: The effect of waterproofing textolites PTK¹⁵, PT¹⁵ and PT-1 (GOST 5-52)¹⁵ with polyorganosiloxane fluids TU MKhP 2416-54¹⁵(I) and GKZh-94¹⁵(II) has been investigated. The work was undertaken to minimize swelling of the machine parts¹⁵ made of textolites, occurring even on brief contact with hot water, live steam, and solutions of hydrochloric or sulfuric acids. The treatment consisted of boiling the samples of textolite for 6 hours in distilled water, drying for 30-40 min at 50-60C and saturating with I or II at 100C for 24 hours. It was established that treatment with I reduced absorption of moisture ~ 8-9 times, while treatment with II reduced it 10 times as compared with untreated controls. Samples treated with I showed higher chemical resistance¹⁵, improved dielectric properties¹⁵, and better specific volumetric electrical resistivity. Experimental results were worked out by N. I.

Nadareyshvili. Orig. art. has: 3 tables.

SUB CODE: II / SUMM DATE: none

UDC: 678.06-011.84

Card 11 GP

LOPATIN, Yu. T.

FISMAN, G.M.; LOPATIN, Yu.T.; YURASOV, M.M.

Yurasov machine for removing seeds from apricots. Kons. 1 ov. (MIRA 11:5)
prom. 13 no.6:4-5 Je '58.

1. Batumskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti (for Fishman, Lopatin). 2. Isfarinskiy konservnyy zavod (for Yarasov).
(Apricots) (Canning industry--Equipment and supplies)

FISHMAN, G.M.; LOPATIN, Yu.T.

Machines for peeling and slicing apples into circles.
Kons. i ov. prom. 13 no.8:12-14 Ag '58. (MIRA 11:9)

1. Batumskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti.
(Apples) (Canning and preserving--Equipment and supplies)

✓ 1998. PROPHYLAXIS OF PROGRESSIVE FIBROSIS. Gerbst, V.V.,
MD Lopatina, A.A., Ismagulova, Kh. Sh. and Bratukhina, L.V. (Klin. Med.
Sov. Med., Moscow, Aug. 1998, vol. 33, 29-31).

③

Handwritten text, possibly a signature or reference number, is present but illegible.

DERYAGIN, B.V.; ZAKHAVAYEVA, N.N.; TALAYEV, M.V.; LOPATINA, A.M.

Apparatus for determining the filtration coefficient and capillary permeability of porous and dispersed bodies. Trudy Inst. fiz. khim. no.6:123-130 '57. (MIEA 11:10)
(Capillarity--Measurement)

LOPATINA, A.M.

186100
AUTHORS:

64300
NOV/196-99-11-12/26
Beryagin, B.V., Yermolov, V.M., Gorchnyuk, N.L.,
Zakhavayeva, M.M., Filippovskiy, V.V., Junke, V.V.
and LOPATINA, A.M.

TITLE:

Determination of the Specific Surface Area of Powders
in the Production of Hard Alloys

PERIODICAL:

Tsvetnyye metally, 1959, Nr 11, pp 55-60 (USSR)

ABSTRACT:

This work has been carried out in order to see whether
it is possible to determine more accurately the
specific surface of powders by using relatively simple
methods. The following gas porosity methods were
used: Carman's method, using Folskel's system of gas
flow through a layer of powder, and B.V. Beryagin's
method with Knudsen's (molecular) system. The
results of the determination of the specific surface
area by the gas porosity methods were compared with
those of the methyl alcohol vapour adsorption method.
The low temperature adsorption of nitrogen method used
by Brunauer (Ref.1) was used as the control method for
the determination of the specific surface area of
powders of below 10 μ grain size. The specific surface
area of coarser powders was calculated from their

Card 1/5

4

3

84265

S/170/60/003/010/010/023
B019/B054

21-2181
AUTHORS:

Deryagin, B. V., Zakhavayeva, N. N., Lopatina, A. M.

TITLE:

A New Method of Determining the Liquid Filtration
Coefficient and the Capillary Transfusion Rate in
Powdered Materials 18

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 10,
pp. 66 - 68

TEXT: In a previous paper (Ref. 1), B. V. Deryagin suggested a method of determining quickly the filtration coefficient at the initial stage of transfusion at which filtration is not yet slowed down by the liquid-saturated layers. By this method, filtration is measured by determining the air displaced by the liquid. The authors designed the apparatus shown in Fig. 2 for determining the liquid filtration coefficient according to this idea. The authors give a formula for calculating the filtration coefficient from experimental results. The principal part of the apparatus is a cylindrical cell to locate the sample. This cell is incorporated in a pipe system; water is pressed in on one side of the

Card 1/3

84265

A New Method of Determining the Liquid Filtration Coefficient and the Capillary Transfusion Rate in Powdered Materials S/170/60/003/010/010/023 B019/B054

cell, and the air escaping on the other side is measured. The filtration coefficients measured by the apparatus described are compared with the values calculated theoretically according to Carman (Table 1).

Sample	Particle size in microns	Liquid	K_0	K_1	K_1/K_0
Sand	50.0	Water	$2.49 \cdot 10^{-6}$	$2.54 \cdot 10^{-6}$	1.02
Sand	20.0	Water	$1.18 \cdot 10^{-6}$	$1.25 \cdot 10^{-6}$	1.05
Sand	7.0	Water	$4.10 \cdot 10^{-8}$	$4.07 \cdot 10^{-8}$	0.99
Clay	0.1	CCl_4	$1.20 \cdot 10^{-10}$	$1.10 \cdot 10^{-10}$	0.91
Sand	1.0	"	$2.24 \cdot 10^{-9}$	$2.42 \cdot 10^{-9}$	1.08

K_0 are the experimental, K_1 the theoretical values of the filtration coefficients in the dimension $cm^3 sec/g$; each of the experimental values

Card 2/3

A New Method of Determining the Liquid
Filtration Coefficient and the Capillary
Transfusion Rate in Powdered Materials

84265

S/170/60/003/010/010/023
B019/B054

was averaged over five measurements. There are 2 figures, 1 table, and
1 Soviet reference.

ASSOCIATION: Institut fizicheskoy khimii AN SSSR, g. Moskva (Institute
of Physical Chemistry of the AS USSR, Moscow)

SUBMITTED: April 6, 1960

Card 3/3

LOPATINA, A-M.

PHASE I BOOK EXPLOITATION

SOV/5590

42

Konferentsiya po poverkhnostnym silam. Moscow, 1960.

Issledovaniya v oblasti poverkhnostnykh sil; sbornik dokladov na konferentsii po poverkhnostnym silam, aprel' 1960 g. (Studies in the Field of Surface Forces; Collection of Reports of the Conference on Surface Forces, Held in April 1960) Moscow, Izd-vo AN SSSR, 1961. 231 p. Errata printed on the inside of back cover. 2500 copies printed.

Sponsoring Agency: Institut fizicheskoy khimii Akademii nauk SSSR.

Resp. Ed.: B. V. Deryagin, Corresponding Member, Academy of Sciences USSR; Editorial Board: M. N. Zakhavayeva, N. A. Krotova, M. M. Kusakov, S. V. Nerpin, P. S. Prokhorov, M. V. Talayev and G. I. Fuks; Ed. of Publishing House: A. L. Bankvitser; Tech. Ed.: Yu. V. Rykina.

PURPOSE: This book is intended for physical chemists.

Card 1/8

Studies in the Field of Surface Forces (Cont.)

SOV/5590

42

COVERAGE: This is a collection of 25 articles in physical chemistry on problems of surface phenomena investigated at or in association with the Laboratory of Surface Phenomena of the Institute of Physical Chemistry of the Academy of Sciences USSR. The first article provides a detailed chronological account of the Laboratory's work from the day of its establishment in 1935 to the present time. The remaining articles discuss general surface force problems, polymer adhesion, surface forces in thin liquid layers, surface phenomena in dispersed systems, and surface forces in aerosols. Names of scientists who have been or are now associated with the Laboratory of Surface Phenomena are listed with references to their past and present associations. Each article is accompanied by references.

TABLE OF CONTENTS:

Zakhavayeva, N. N. Twenty-Five Years of the Laboratory of Surface Phenomena of the IFKhan SSSR (Institute of Physical Chemistry of the Academy of Sciences USSR)

3

Card 2/8

Studies in the Field of Surface Forces (Cont.)	SOV/5590	42
Adhesion Process in Platinum Threads		143
IV. SURFACE PHENOMENA IN DISPERSION SYSTEMS		
Volarovich, M. P., and N. V. Churayev. Investigation of Processes of Moisture Movement in Peat By the Radioactive-Isotope Method		149
Nerbin, S. V., and B. V. Deryagin. Surface Phenomena in Soil Mechanics		156
Glazman, Yu. M. Theory of the Coagulation of Lyophobic Sols By Means of Electrolyte Mixtures		166
Deryagin, B. V., N. N. Zakhavayeva, and A. M. Lopatina. Investigating the Filtration of Electrolyte Solutions in High-Dispersion Powders		175
Kudryavtseva, N. M., and B. V. Deryagin. Investigating the Slow Coagulation of Hydrosols With a Flow Ultramicroscope		183
Card 6/8		

DERYAGIN, B.V.; YERMIN, V.N.; GRECHNYUK, R.L.; ZAKHAVAYEVA, N.N.;
FILIPPOVSKIY, V.V.; FUNKE, V.F.; LOPATINA, A.M.

Methods of determining powder dispersivity in the
production of hard alloys. Sbor. trud. VNITTS no.2:158-
171 '60. (MIRA 15:2)

(Powder metallurgy)
(Dispersimetry)

ZAKHAVAYEVA, N.N.; LOPATINA, A.M.

Percolation phenomena in electrolytes flowing in porous media. Inzh.-
fiz. zhur. 7 no.2:38-42 F '64. (MIRA 17:2)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

LOPATINA, A.V., insh., red.; CHERKEZ, Yu.S., red.; PEFROV, S.P.,
tekh.n.fed.

[Founding] Liteinoe proizvodstvo. Moskva, TSentr.biuro nauchno-
tekh.inform.tiashelogo mashinostroeniia, 1958. 54 p. (Obmen
peredovym opytom, no.13/34) (MIRA 14:2)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut
tekhmblogii i mashinostroyeniya.
(Founding)

LOPATINA, G.

BERESNEVA, V.; BYLINKINA, V.; DOBOSINSKIY, L.; LAZAREV, N.; LOPATINA, G.

María Pavlovna Korsakova; obituary. Mikrobiologiya 24 no.5:650
S-O '55. (MLRA 9:1)

(KORSAKOVA, MARIIA PAVLOVNA, 1881-1955)

LOPATINA, G.B.

3(6)

p. 3

PHASE I BOOK EXPLOITATION

SOV/1934

Leningrad. Nauchno-issledovatel'skiy institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln

Trudy, Vyp. 13. (Transactions of the Institute of Scientific Research on Terrestrial Magnetism, the Ionosphere, and Radio Wave Propagation. Nr. 13) Moscow, Gidrometeoizdat (Otd-nie), 1957. 118 p. 1,120 copies printed.

Additional Sponsoring Agency: USSR. Ministerstvo svyazi.

Ed. (Title page): Ya.L. Al'pert; Ed. (Inside book): V.I. Tarkhunova;
Tech. Ed.: V.V. Mayorov.

PURPOSE: This issue of the Institute's Transactions is intended for geophysicists and technical personnel working in research organizations as well as for advanced students at universities and technical vuzes. It is also of interest to communications personnel.

Card 1/3

Transactions of the Institute (Cont.)

SOV/1934

COVERAGE: This publication contains six articles on aspects of radio wave propagation. Two articles by Ya.I. Likhter treat questions dealing with atmospheric noise and interference. Articles by S.V. Borodina and G.B. Lopatina deal with long-wave radio wave propagation. All articles include diagrams, figures, tables, and references.

TABLE OF CONTENTS:

Borodina, S.V. A Study on the Propagation of Long and Ultra-long Radio Waves by Means of Analyzing the Forms of Atmospherics:	3
Likhter, Ya.I. A Method for Determining the Functions of the Distribution of Atmospheric Interferences	31
Likhter, Ya.I. Certain Features Inherent to the Function of the Distribution of Field Intensity of Atmospheric Noise	63

Card 2/3

Transactions of the Institute (Cont.)	SOV/1934	
Kushnerevskiy, Yu.V. An Experimental Set-Up for Studying the Homogeneous and Non-Stationary Structure of Ionosphere		72
Kalinin, Yu.K. The Problem of Phase Velocity and Direction of the Normal Toward the Front of the Radio Waves Above a Non-homogeneous Surface		87
Lopatina, G.B. The Changeability of the Signal Strength of Long-Wave Stations		110

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Card 3/3

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D228/D307

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AUTHORS: Lopatina, G. B. and Fel'dshteyn, Ya. I.

TITLE: Geomagnetic effect of the ionosphere's F2 layer

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 24, abstract 7G151 (V sb. Ionosfern. issledovaniya, no. 6, M., AN SSSR, 1961, 29-34)

TEXT: The latitudinal distribution of f_oF_2 in different geomagnetic longitudes is analyzed from IGY data. The analysis is made according to the median values and separate quiet and disturbed days. Quiet and disturbed days were chosen according to their magnetic characteristics. The latitudinal distribution appears to differ somewhat on different geomagnetic meridians; moreover, hemispherical asymmetry is also observed, with the presence of a bend (or else an additional maximum) in middle latitudes. On quiet days the latitudinal distribution of f_oF_2 does not differ from the

Card 1/2