

L 00010-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG

ACCESSION NR: AP5023712

UR/0075/65/020/008/0815/0819

AUTHOR: Yatsimirskiy, K. B.; Filippov, A. P.

TITLE: Kinetic method for determining microquantities of molybdenum

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 8, 1965, 815-819

TOPIC TAGS: molybdenum, trace analysis, oxidation kinetics

ABSTRACT: A new kinetic method for determining trace amounts of molybdenum based on a catalytic acceleration of the oxidation of 1-naphthylamine by bromate has been developed. Vanadium, which catalyzes this reaction at concentrations of the order of 10^{-8} mol/l, interferes with the determination. Bromide, which accelerates the reaction, interferes at concentrations exceeding 10^{-5} mol/l. Tungsten, iron, and copper do not interfere even when present in amounts ten times that of molybdenum. Other oxidants interfere at concentrations greater than 10^{-5} mol/l. The sensitivity of the method is 0.005 μ g of molybdenum in 25 ml of solution. Orig. art. has: 3 figures, 2 tables, 6 formulas.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii, AN UkrSSR (Institute of General and Inorganic Chemistry, AN UkrSSR)

SUBMITTED: 03Aug64

NO REF SOV: 005

Card 1/1

ENCL: 00
OTHER: 002

SUB CODE: ID, GC

FILIPPOV, Anatoliy Pavlovich; VASIL'YEV, Yuriy Nikolayevich;
SERGEYEV, D.I., red.

[Operation of marine internal combustion engines on heavy
fuel] Eksploatatsiia sudovykh dvigatelei vnutrennego sgo-
raniiia na tiazhelom toplive. Moskva, Transport, 1965.
343 p. (MIRA 18:10)

TERENT'YEV, V.N. (Khar'kov); FILIPPOV, A.P. (Khar'kov)

Forced steady-state vibrations of infinite beams supported by
an elastic semispace. Prikl. mekh. 1 no.9:107-114 '65.

(MIRA 18:10)

1. Khar'kovskiy filial Instituta mekhaniki AN UkrSSR.

i. 27186-66 EMT(d)/EM(n)/EMP(w)/EMP(v)/EMP(k) IJP(c) EM
ACC NR: AP6016881 SOURCE CODE: UR/0198/65/001/009/0107/0111
AUTHOR: Terent'yev, V. N. (Khar'kov); Filippov, A. P. (Khar'kov) 26
ORG: Khar'kov Branch, Institute of Mechanics, AN UkrSSR (Khar'kovskiy filial 13
Instituta mekhaniki AN UkrSSR)
TITLE: Forced sustained oscillations of infinite beams lying on an elastic half-plane 26
SOURCE: Prikladnaya mekhanika, v. 1, no. 9, 1965, 107-114 26
TOPIC TAGS: fabricated structural metal, mechanical engineering
ABSTRACT: The authors solve the three-dimensional problem of the
motion of a force along an infinite beam lying on an elastic half-
space for the case of forced sustained oscillations. It is assumed
that masses move along the beam with a constant velocity v , and
that the moving and spring-supported masses are subject to peri-
odic forces with frequency p . The special case of motion of a
constant force was studied previously (Filippov, A.P., Izv. AN
SSSR, Seriya "Mekhanika i mashinostroyeniye", OTN, No 6, 1961).
Orig. art. has: 1 figure and 20 formulas. [JPRS]
SUB CODE: 20 / SUBM DATE: 09Apr65 / ORIG REF: 003 / OTH REF: 004

Card 1/1 *pla* 2

L 27217-86 EWT(d)/EWT(m)/T/EWP(f) WE

ACC NR: AM6001544

Monograph

UR/

Filippov, Anatoliy Pavlovich; Vasil'yev, Yuriy Nikolayevich

Operation of marine internal combustion engines on heavy fuel²³ (Ekspluatatsiya sudovykh dvigateley vnutrennego sgoraniya na tyazhelom toplive) Moscow, Izd-vo "Transport," 1965. 343 p. illus., biblio. 3500 copies printed.

TOPIC TAGS: internal combustion engine, marine engineering, diesel engine, heavy fuel, diesel fuel, fuel, petroleum fuel, gas turbine fuel, fuel additive; fuel composition, fuel oil

PURPOSE AND COVERAGE: This book is intended for ships' engineers and technicians in the merchant marine. It may also be used by engineers in river and railroad transport, engineers at electric power stations utilizing liquid fuel, students of marine engineering in higher merchant-marine academies, and students in heat and power engineering in higher educational institutions. The book deals with the problem of using fuel oil having higher viscosity and content of sulfur, water, and mechanical additives in marine internal-combustion engines. The authors consider fleet use of cheaper fuels as an important problem to be solved, and they generalize a great deal of theoretical and experimental material in this area, along with engineering experience by Soviet and non-Soviet fleets. Particular attention is paid to the separation of heavy fuels and to the use of special chemical additives. It is stated that the book will aid marine engineers and technicians in developing cheaper fuels for transport vessels and will solve an important economic problem

Card 1/2

UDC: 656.612:621.43:662.75

L 27217-66

ACC NR: AM6001544

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involving the economy of distillate diesel fuels necessary for the growing truck and tractor industry of the Soviet Union.

TABLE OF CONTENTS [abridged]:

Foreword -- 3

Ch. I. Providing normal diesel operation on heavy fuels -- 7

Ch. II. The preparation of heavy fuels under shipboard conditions -- 84

Ch. III. Recommendations on the maintenance of diesels operating on heavy fuels -- 218

Ch. IV. Specific features in the operation of marine gas-turbine units on heavy fuels -- 241

Ch. V. The use of heavy fuels in marine combined gas-turbine units with free-piston gas generators -- 309

Conclusion -- 332

References -- 337

SUB CODE: 21,13,14/ SUBM DATE: 05Jul65/ ORIG REF: 085/ OTH REF: 058
Card 2/2 CC

L 3518-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T-2/EWP(k)/EWA(h)/ETC(m) WW/EM
 AM5013:201 BOOK EXPLOITATION

UR/
 6.05
 F53

58
 54
 871

Filippov, Anatoliy Petrovich

Vibrations of mechanical systems (Kolebaniya mekhanicheskikh sistem) Kiev, Izd-vo "Naukova dumka", 1965. 715 p. illus., biblio. (At head of title: Akademiya nauk Ukraineskoj SSR. Khar'kovskij filial Instituta mekhaniki) 3,270 copies printed.

TOPIC TAGS: vibration, vibration theory, computer calculation, mechanical vibration, forced vibration, nonlinear vibration, vibration damping, free oscillation, vibration frequency, shell vibration, shaft vibration, elastic deformation, blade vibration, machine vibration

PURPOSE AND COVERAGE: The book examines the vibrations of mechanical systems. For practical application are presented vibration calculating methods with the use of high-speed electronic computers. A considerable part of the book deals with the calculation of free and forced vibration of rods and shaft systems (shafts, rods, frames, etc.). In detail are studied the vibrations of rectangular, parallelogram and incomplete shape plates, and the vibrations of plates

Card 1/3

L 3518-66
AM5013201

on elastic half space foundation. The vibrations of turbodynamo blades and discs and the transition processes of mechanical system are studied. The basic methods of nonlinear vibrations are presented briefly. The effect of moving load on the beams of finite and infinite length embedded on elastic formation are analysed. Inelastic impact on beams and plates and elastic impact with the consideration of deformation are tested. The book is intended for scientific workers, design engineers, aspirants and university students of construction and mechanical engineering specialties.

TABLE OF CONTENTS (abridged):

Foreword	---	3
Ch. I. Vibration of linear systems with one degree of freedom	---	5
Ch. II. Vibration of system with several degrees of freedom	---	24
Ch. III. Bending - torsional vibrations of rods	---	60
Ch. IV. Traverse vibrations of constant section ponderable rods	---	85
Ch. V. Approximate determination methods of vibration frequency	---	132
Ch. VI. Vibration of beams with damping allowance	---	144
Ch. VII. Vibration of flat frames	---	181
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AM5013201

3

- Ch. IX. Vibration of plates ~~248~~ 248
- Ch. X. Vibration of turbine blades --- 320
- Ch. XI. Vibration of discs --- 354 ²⁴
- Ch. XII. Vibration of shells ²⁶ --- 380
- Ch. XIII. Longitudinal and torsional vibrations of rods --- 403
- Ch. XIV. Vibrations with nonlinear and variable characteristics --- 438
- Ch. XV. Forced vibration passing through a resonance --- 498
- Ch. XVI. Vibrations of rotating shafts --- 561
- Ch. XVII. Vibration of beam affected by a moving load --- 591
- Ch. XVIII. Vibrations of plates embedded on elastic foundation --- 634
- Ch. XIX. Impact and vibrations of elastic bodies --- 654

Bibliography --- 702

SUB CODE: AS

SUBMITTED: 29Dec64

NO REF SOV: 098

OTHER: 041

OC

Card 3/3

PETROV, N.P.; TROSHKIN, I.T.; FILIPPOV, A.P.

Bright hardening with heating in an endothermic atmosphere. Metalloved.
1 term. obr. met. no.9:31-35 S '64. (MIRA 17:11)

KANEVSKIY, Ye.A.; FILIPPOV, A.P.; VEL'MATKIN, M.I.

Optimal region of pH in the sulfuric acid dissolution of uranium dioxide in the presence of various oxidizers and Fe (II) ions. Radiokhimiia 5 no. 6:741-744 '63. (MIRA 17:7)

YATSIMIRSKIY, K.B.; FILIPPOV, A.P.

Kinetics of the catalytic oxidation of 1-amino-2-naphthol-4-sulfonic acid by a bromate. Zhur. neorg. khim. 9 no.9:2096-2102 S '64. (MIRA 17:11)

L 15126-65 EPF(n)-2/EWT(m)/EWP(b)/EWP(t) Pu-4 IJP(c) DM/WW/JD/JG
ACCESSION NR: AP4045333 S'0089/64/017/003/0205/0208

AUTHOR: Filippov, A. P.; Kanevskiy, Ya. A.

TITLE: Oxidation-reduction potential and the degree of leaching of uranium in sulfuric acid solutions E
21

SOURCE: Atomnaya energiya, v. 17, no. 3, 1964, 205-208

TOPIC TAGS: oxidation reduction potential, uranium leaching, iron ion catalytic action, UO₂ sulfuric acid solution

ABSTRACT: The authors consider some regularities of UO₂ oxidation by manganese dioxide in sulfuric acid solutions both in the absence and in the presence of iron ions. They show that the oxidation-reduction potential alone is not a definite criterion of oxidation, and that the actual rate of reaction depends on the reaction mechanism. The dependence of the degree of oxidation and dissolution of UO₂ at 20 and 85C in the sulfuric acid solution on α, β, γ was investigated in the presence of MnO₂ and Fe(II). This dependence has a S-shape. The catalytic role of iron

Card 1/2 27

L 15126-65

ACCESSION NR: AP4045333

in the oxidation of UO_2 by the manganese dioxide in sulfuric acid solutions
The orig art has 1 figure, 2 tables

ASSOCIATION: None

SUBMITTED: 13Jun64

ENCL: 00

SUB CODE: GC, IC

NO REF SOV: 008

OTHER: 009

Card 2/2

FILIPPOV, A.S., inzhener.

Decreasing the consumption of glue in producing beech plywood.
Der.prem.5 no.6:23 Ja '56. (MIRA 9:9)

1. L'vovskiy fanerayy zavod.
(Plywood)

FILIPPOV, A.S., inzh.

New unloader for motor vehicles and tractor trains. Trudy
MIEI no.17:143-146 '61. (MIRA 14:11)
(Transportation, Automotive--Equipment and supplies)

FILIPPOV, A. S.

Sci. Resc. Inst. Potato Culture, Malakhovka, Moscow Oblast, -1945-.

"The Michurin: Scientific Basis for the Selection of Potatoes," Sad i Ogorod, No. 6, 1949

1. FILIPPOV, A. S.
2. USSR (600)
4. Potatoes
7. Successes in selective breeding of potatoes. Dest.sel'khoz. no.3, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

FILIPPOV, A.S., kandidat biologicheskikh nauk.

Methods for rapid propagation of valuable potato varieties. Biol.
v shkole no.3:83-86 My-Je '57. (MLBA 10:6)

1. Nauchno-issledovatel'skiy institut kartofel'nogo khozyaystva.
(Seed potatoes)

FILIPPOV, A.S.

ca

19

Circular five-chamber brick kiln. A. S. Filippov. Russ. 19, 1917, Feb. 28, 1931.

ASB. 55.4 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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LIVOVSKIY, P.G.; PAL'MOV, Ye.V., professor doktor, retsentsent; KRASNOV, K.V., inzhener, retsentsent; ZAKROCHINSKIY, S.V., inzhener, retsentsent; SEKLOVSKIY, M.B., inzhener, retsentsent; BOGACHEV, I.N., professor doktor tekhnicheskikh nauk, redaktor; AKHUN, A.I., kandidat tekhnicheskikh nauk, redaktor; BARANOV, V.M., kandidat tekhnicheskikh nauk, redaktor; RYZHIKOV, A.A., kandidat tekhnicheskikh nauk, redaktor; FILIPPOV, A.S., kandidat tekhnicheskikh nauk, redaktor; CHERNOBROVKIN, V.P., kandidat tekhnicheskikh nauk, redaktor; YAKUTOVICH, M.V., kandidat tekhnicheskikh nauk, redaktor; GRISHCHENKO, M.F., inzhener, redaktor; ZASLAVSKIY, I.A., inzhener, redaktor; KROKHALEV, V.Z., inzhener, redaktor; SOSKIN, M.D., inzhener, redaktor.

[Manual for the mechanic in a metallurgical plant] Spravochnoe rukovodstvo mekhanika metallurgicheskogo zavoda. Izd.3., ispr.1 dep. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po Chernoi i tsvetnoi metallurgii, 1953. 1112 p. (MLRA 7:4)
(Mechanical engineering--Handbooks, manuals, etc.)

PHASE I BOOK EXPLOITATION 932

Philippov, Aleksandr Semenovich

Stal'nyye otlivki (Steel Castings) Moscow, Mashgiz, 1955. 59 p.
(Series: Nauchno-populyarnaya biblioteka rabocheho-liteyshchika,
vyp. 16) 3,000 copies printed.

Ed.: Volpyanskiy, L.M.; Tech. Ed.: Dugina, N.A.; Executive Ed. (Ural-
-Siberian Division, Mashgiz): Kalétina, A.V., Engineer.

PURPOSE: The booklet is intended to improve the qualifications of
steel foundry workers.

COVERAGE: In this the 16th booklet of the second series of the Popular
Scientific Library, various carbon, manganese and special steel
castings are described. Features of design and production of steel
castings, their cleaning, chipping and heat treatment are discussed.
There are 2 Soviet references.

Card 1/3

Steel Castings 932

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Introduction	3
Basic Properties of Steel Castings	5
Carbon steel castings	7
Manganese steel castings	11
Castings made of scale-resistant and acid-resisting steels	12
Special Features in Making Steel Castings	14
Design of steel castings	14
Molding materials	21
Making Molds for Steel Castings	24
Arrangement of gate systems	25
Risers, chills, and crack-preventing ribs	31
Drying molds	48

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Heat Treatment of Steel Castings		51
Chipping, Cleaning, and Correction of Defects of Steel Castings		57
Recommended Literature		60
AVAILABLE: Library of Congress		

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12-9-58

Card 3/3

ФЕЛИППОВ А.С.

ANAN' IN, Anatoliy Andreyevich; BRILAKH, Mikhail Mikhaylovich; CHERNOBROVKIN, Viktor Petrovich; ~~ФЕЛИППОВ~~ *А.С.*, kand.tekhn.nauk, retsenzent; MAKURIN, P.I., kand.tekhn.nauk, retsenzent; ZIMIN, V.M., inzh., retsenzent; SARAFANNIKOVA, G.A., tekhn.red.

[Cupola furnace operator] Vagranshchik. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1957. 151 p. (MIRA 11:2)
(Cupole furnaces)

18(5) PHASE I BOOK REPILOTATION 30V/2048

Sverdlovsk. Ural'skiy politekhnicheskii institut imeni S.M. Kirova
 Teoriya i praktika litynogo proizvodstva (Theory and Practice in the
 Foundry Industry) Moscow, Mashiz, 1959. 231 p. and 32 p.
 (Series: Its: [Sbornik] v. 89) Errata slip inserted. 5,000
 copies printed.

Ed.: A.A. Grashov, Corresponding Member, USSR Academy of Sciences,
 Professor of Technical Sciences, Professor, Tech. Ed.: N.A. Dugina
 Eng.: Ed.: (Ural-Siberian Division, Mashiz): A.V. Kolesina,
 Engineer.

FOREWORD: This book is intended for engineering and scientific workers
 of institutes and machine-building plants, as well as for students
 of advanced courses at universities.

CONTENTS: This collection consists of articles dealing with practical
 problems in foundry processes. The articles review the achieve-
 ments of Ural foundry workers in the past 40 years and present
 aspects of a current study on the casting of nodular cast iron,
 its properties and casting methods. A description is given of
 artistic and architectural casting. Consideration is given to the
 problem of combating gases in steel and aluminum. The structure
 of cast steel is discussed. A recent investigation of vacuum
 casting is also presented. Characteristic properties and new applications
 of cast aluminum are also presented. There are 32 pages of photographs illustrating
 at the end of the book. No personalities are mentioned. References
 follow each article.

TABLE OF CONTENTS:

Dutakov, D.K. [Candidate of Technical Sciences]. Structure and
 Fracture of Cast Steel 140
 The author presents a survey material on the structure of cast
 steel as observed in macroscopic investigation. Fracture of
 cast steel, fracture in heated condition, and fracture following
 heat treatment are also reviewed.

Metabov, P.K. [Candidate of Technical Sciences]. Investigating
 Causes of Brittle Fracture of Castings 151
 The author investigates the causes of brittle fracture of steel
 castings in an induction furnace with acid crucible, and the con-
 clusion is drawn that the deposit of the nonmetallic phase con-
 taining sulfides along the primary austenite grain lines, con-
 trolled by manganese, aluminum, and oxygen is the main cause of
 the brittleness of steel.

Filippov, A.S. [Candidate of Technical Sciences], and G.F. Saltanov
 [Engineer]. Hot-tops, Heated With Exothermic Mixtures 154
 The authors describe the development of Soviet exothermic cast-
 ings compounds giving composition and results obtained in the
 foundry.

KOCHUROV, Aleksey Stepanovich; NAZAROV, Aleksey Gavrilovich; ZASTPKIN, Aleksey Georgiyevich; GIMMEL'MAN, Nikolay Robertovich; VOLEGOV, Andrey Fedorovich; NESTEROV, Boris Arkad'yevich; TROYANOV, Andrey Konstantinovich; FILIPPOV, A.S., kand.tekhn.nauk, retsentsent; RYAZANOV, K.I., inzh., retsentsent; ZAKHAROV, B.P., inzh., red.; YERMAKOV, M.P., tekhn.red.

[Manual for modelmakers] Spravochnik rabochego-model'shchika.
Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1959.
379 p. (MIRA 13:3)

(Models and modelmaking)

ANAN'IN, Anatoliy Andreyevich; KUZNETSOV, Stepan Petrovich; CHERNOBROVKN, Viktor Petrovich; ZIMIN, V.P., inzh., retsenzent; FILIPPOV, A.S., kand.tekhn.nauk, red.; MARCHENKOV, I.A., tekhn.red.

[Progressive methods of operating cupola furnaces] Peredovye metody obsluzhivaniia vaganok. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 98 p. (MIRA 13:6)
(Cupola furnaces)

PISARENKO, Grigoriy Andreyevich; FILIPPOV, Aleksandr Semenovich;
VOLFYANSKIY, L.M., red.; SKOROBOGACHEVA, A.P., red.izd-va;
TURKINA, Ye.D., tekhn.red.

[Founding metallurgical equipment of cast iron with spheroidal
graphite] Otlivki metallurgicheskogo oborudovaniia iz chuguna
s sharovidnym grafitom. Sverdlovsk, Gos.nauchno-tekhn.izd-vo
lit-ry po chernoi i tsvetnoi metallurgii. Sverdlovskoe otd-nie,
1960. 206 p. (MIRA 13:3)

(Iron founding)

(Metallurgical plants--Equipment and supplies)

FILIPPOV, A.S.

PHASE I BOOK EXPLOITATION SOV/3864

Pisarenko, Grigoriy Andreyevich, and Aleksandr Semenovich Filippov

Otlivki metallurgicheskogo oborudovaniya iz chuguna s sharovidnym grafitom
(Castings of Metallurgical Equipment From Nodular Cast Iron) Sverdlovsk,
Metallurgizdat, 1960. 206 p. Errata slip inserted. 2,150 copies printed.

Ed.: L. M. Volpyanskiy; Ed. of Publishing House: A. P. Skorobogacheva; Tech.
Ed.: Ye. D. Turkina.

PURPOSE: This book is intended for technical personnel in the metallurgical and allied industries.

COVERAGE: The book describes methods of casting nodular-iron open-hearth ingot molds and rolls for the rolling of sheet metal and shapes. Conditions for the industrial application of these products are discussed. Engineering and economic data are given. No personalities are mentioned. There are 114 references: 105 Soviet, 6 English, 1 German, 1 Rumanian, and 1 Japanese.

Card 1/6

POPOV, Andrey Dmitriyevich; SOMINSKIY, Zal'man Abelevich; KHAKHALIN, Boris
Dmitriyevich; EL'BERT, Semen Moiseyevich; FILIPPOV, A.S., kand.
tekhn. nauk, retsenzent; DUGINA, N.A., tekhn. red.

[Continuous pouring of cast iron] Nepreryvnoe lit'e chuguna. Mo-
skva, Mashgiz, 1961. 110 p. (MIRA 14:11)
(Continuous casting) (Cast iron)

KUZELEV, Mikhail Yakovlevich; SKVORTSOV, Aleksey Anatol'yevich;
SMELYAKOV, Nikolay Nikolayevich; DUBITSKIY, G.M., doktor
tekhn. nauk, retsenzent; ZOENIN, B.F., kand. tekhn. nauk,
retsenzent; KOROTKOV, V.G., kand. tekhn. nauk, retsenzent;
LEVCHENKO, P.V., kand. tekhn.nauk, retsenzent; MAKURIN, P.I.,
kand. tekhn. nauk, retsenzent; PASTUKHOV, A.I., kand. tekhn.
nauk, retsenzent; PORUCHIKOV, Yu.P., kand. tekhn. nauk, re-
tsenzent; ROZENEERG, I.A., kand. tekhn. nauk, retsenzent;
SERGEICHEV, N.F., kand. tekhn. nauk, retsenzent; FILIPPOV,
A.S., kand. tekhn. nauk, retsenzent; YAROSHENKO, Yu.G., kand.
tekhn. nauk, retsenzent; BAZAROVA, N.V., inzh., retsenzent;
BLANK, E.M., inzh., retsenzent; VOLFYANSKIY, I.M., inzh.,
retsenzent; ZAKHAROV, B.P., inzh., retsenzent; MYSHALOV, S.V.,
inzh., retsenzent; RAZUMOVA, M.S., inzh., retsenzent;
SHABALIN, L.A., inzh., retsenzent; SHKUNDI, R.M., inzh., re-
tsenzent; DUGINA, N.A., tekhn. red.

[Handbook of foundry practice] Spravochnik rabochego-
liteishchika. 1zd.3. Moskva, Mashgiz, 1961. 584 p.

(MIRA 15:4)

(Founding--Handbooks, manuals, etc.)

BEANK, E.M.; FILIPPOV, A.S.; POPOV, A.D.

New graphite spheroidizer. Fiz.met.1 metalloved. 14 no.5:799-
800 N '62. (MIRA 15:12)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh
metallov.

(Cast iron--Metallography)

BLANK, E.M.; FILIPPOV, A.S.; POPOV, A.D.

Yttrium is a spheroidizer of graphite. Lit.proizv. no.11:38 N '62.

(MIRA 15:12)

(Cast iron—Metallurgy)

(Yttrium)

FOFANOV, A.A., kand.tekhn.nauk; LEYSOV, Ye.I., inzh.; YEL'KIN, S.A., inzh.;
MILYAYEV, M.N., inzh.; PASTUKHOV, A.I., kand.tekhn.nauk; DZEMIAN,
S.K., inzh.; KOSNAREV, A.S., inzh.; KLEYN, A.L., kand.tekhn.nauk;
DANILOV, A.M., inzh.; FILIPPOV, A.S., kand.tekhn.nauk; SALTANOV,
G.F., inzh.; VETROV, B.G., inzh.; FISARENKO, G.A., kand.tekhn.nauk;
RADYA, V.S., inzh.; GEROTSKIY, V.A., inzh.

In the Ural Mountain Region Scientific Research Institute for
Ferrous Metals. Stal' 22 no.10:892,916,938,953 0'62. (MIRA 15:10)
(Ural Mountain region—Metallurgical research)

KOCHUROV, A.S.; NAZAROV, A.G.; ZASYPKIN, A.G.; GIMEL'MAN, N.R.
[deceased]; VOLEGOV, A.F.; NESTEROV, A.A.; FILIPPOV, A.S.,
kand. tekhn. nauk, retsenzent; RYAZANOV, K.I., inzh.,
retsenzent; ZAKHAROV, B.P., inzh., nauchn. red.; YERMAKOV,
N.P., tekhn. red.

[Handbook for mold makers] Spravochnik rabochego-model'-
shchika. Izd.2., perer. izdop. Moskva, Mashgiz, 1963.
360 p.
(MIRA 17:2)

FILIPPOV, Aleksandr Semenovich; PISARENKO, Grigoriy Andreyevich;
YANKELEVICH, Genrikh Iosifovich; RADYA, Vladimir
Sergeyevich

[Cast spare parts for steel pouring equipment] Smennye
litye detali stalerazlivnochnogo oborudovaniia. Moskva,
Metallurgiya, 1965. 302 p. (MIRA 18:7)

ACCESSION NR: AP4031148

S/0056/64/046/004/1266/1280

AUTHORS: Arbutov, B. A.; Logunov, A. A.; Filippov, A. T.; Khrustalev, O. A.

TITLE: The Fredholm method in the relativistic scattering problem

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1266-1280

TOPIC TAGS: particle scattering, relativistic particle, particle spin, Fredholm method, Regge pole, asymptotic property

ABSTRACT: The investigation of the analytic properties and asymptotic form of the amplitudes for elastic scattering of two spinless particles with equal masses, obtained from solutions found by the Fredholm method, are described. The motivation is to develop a method for studying the analytic properties of the scattering amplitude and its asymptotic behavior as a function of the cosine of the scattering angle in the c.m.s. directly, without assuming the exis-

Card 1/3

ACCESSION NR: AP4031148

tence of a Mandelstam representation. The problem is treated over a restricted energy range but with arbitrary momentum transfer. The scattering amplitude and the bound states of the particles are described by a Schrodinger-type equation with a generalized complex potential. The analytic properties of the scattering amplitude are studied as a function of the complex energy (or momentum) and angular momentum. The asymptotic form of the partial amplitude is found and it is shown that a transition to the total amplitude is possible by using the Watson-Sommerfeld transformation. The analyticity of the total amplitude as a function of momentum transfer is demonstrated, and conditions for the Regge asymptotic behavior at infinite momentum or angular momentum are formulated. Some of the results which can be gained from the investigation are discussed in the conclusion. "The authors are sincerely grateful to Academician N. N. Bogolyubov for stimulating discussions and also to O. I. Zav'yalov and M. K. Polivanov for valuable information." Orig. art. has: 3 figures and 20 formulas.

Card 2/3

ACCESSION NR: AP4031148

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint
Institute of Nuclear Research)

SUBMITTED: 20Jul63

DATE ACQ: 07May64

ENCL: 00

SUB CODE: NP

NR REF SOV: 008

OTHER: 011

Card 3/3

FILIPPOV, A.T.; ZRELOVA, N.N., tekhn. red.

[Removal of divergences in quasi-potential equations]
Ob ustraneni raskhodimosti v kvazipotentsial'nykh
uravneniakh. Dubna, Ob"edinennyi in-t iadernykh is-
sledovani, 1963. 5 p. (MIRA 17:1)

ARBUZOV, B.A.; FILIPPOV, A.T.

Iterative method in nonrenormalizable field theory. Zhur. eksp.
i teor. fiz. 49 no.3:990-999 S '65. (MIRA 18:10)

1. Ob'yedinennyy institut yadernykh issledovaniy.

S/056/63/044/004/039/044
B102/B186

AUTHORS: Arbuzov, B. A., Logunov, A. A., Tavkhelidze, A. N.,
Faustov, R. N., Filippov, A. T.

TITLE: A quasioptical model and the asymptotic behavior of the
scattering amplitude

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,
no. 4, 1963, 1409 - 1411

TEXT: As shown in Ref. 1 (Preprint OIYaI, E-1145, 1962), a two-particle system may be described in quantum field theory by a Schrödinger-type equation with generalized complex potential, which in the case of scalar particles reads

$$V^{\pm}(q, q', E) = \frac{1}{\pi} \int_{\mu^2}^{\infty} \frac{U^{\pm}(E, \nu)}{\nu + (q - q')^2} d\nu, \quad (2).$$

This quasioptical treatment yields the scattering matrix and also the structure of bound and resonance states. The wave function is only a function of transferred three-momenta (q, q') , and the energy
Card 1/4

A quasioptical model and the...

S/056/63/044/004/039/044
B102/B186

$$(E^2 - q^2 - m^2) \psi_{\pm}(q) = \frac{1}{\sqrt{q^2 + m^2}} \int V^{\pm}(q, q'; E) \psi_{\pm}(q') d^3q'. \quad (1);$$

$V^{\pm}(-)$ is the potential for even (odd) states with respect to $\cos \theta$; $U(E, \nu)$ is the spectral function which is complex in the region $E^2 > m_1^2$. The amplitude $M(E, t)$ of the process is assumed to satisfy the dispersion relation and its projection onto even and odd states is given by

$$M^{\pm}(E, t) = \int_{\mu}^{\infty} \frac{\sigma^{\pm}(E, \nu)}{\nu + (q - q')^2} d\nu. \quad \text{The imaginary part of } V \text{ characterizes inelastic}$$

scattering. Regge has shown that when the potential is a superposition of Yukawa potentials, the scattering amplitude with $t \rightarrow \infty$ may be given by

$$M(E, t) = g(E) t^{\alpha(E)}, \quad t = -(q - q')^2, \quad (4),$$

where q and q' are initial and final momenta. It is now shown that a

Card 2/4

A quasioptical model and the...

S/056/63/044/004/039/044
B102/B186

potential of type (2) leads to Regge asymptotic behavior (4). The solution of the amplitude equation

$$T^{\pm}(q, q') = V^{\pm}((q - q')^2, E) + \int \frac{V^{\pm}((q - \rho)^2, E) T^{\pm}(\rho, q')}{[(E + i\epsilon)^2 - m^2 - \rho^2] \sqrt{\rho^2 + m^2}} d^3\rho. \quad (5)$$

is sought as a function like

$$T^{\pm}(q, q') = \frac{1}{\pi} \int_0^{\infty} \frac{\tau^{\pm}(q^2, q^2, \nu)}{\nu - s} d\nu. \quad (6)$$

The equation of the spectral function τ for the asymptotic region ($s \rightarrow \infty$) has a solution of the form

$$\tau^{\pm}(q^2, q^2, \nu, E) = \tau_a^{\pm}(q^2, q^2, E) \nu^{a(B)}, \quad (9)$$

where τ_a will satisfy

Card 3/4

A quasioptical model and the...

S/056/63/044/004/039/044
B102/1186

$$\tau_{\alpha}^{\pm}(u, s, E) = \int R_{\alpha}^{\pm}(u, u', s, E) \frac{\tau_{\alpha}^{\pm}(u', s, E)}{(E^2 - m^2 - u') \sqrt{u' + m^2}} du'.$$

$$R_{\alpha}^{\pm}(u, u', s, E) = \int U^{\pm}(E, v) dv \int_0^1 \frac{dx \cdot x^{\alpha}}{(1-x)^{1/2}} \frac{0(u' - ux - vx/(1-x))}{[u' - ux - vx/(1-x)]^{1/2}}. \quad (10).$$

From the latter relation the eigenfunction τ_{α} and the eigenvalue α , which is a function of E , can be determined. For $E^2 < m_1^2$, $U(E, v)$ is real and therefore also α . Eq. (6) together with (9) yields

$$T(q^2, q^2, s, E) = s^{\alpha(E)} \tau_{\alpha}(q^2, q^2, E) \frac{[1 + e^{-i\pi\alpha(E)}]}{\sin \pi\alpha(E)}. \quad (11)$$

for large s . A similar result is obtained from (1) in partial-wave representation.

ASSOCIATION: Ob'yedinennyy institut yadornykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: January 3, 1963

Card 4/4

FILIPOV, A.T.

Conference on the Principles of Symmetry at High Energies held
in the United States in 1964. Usp. fiz. nauk 84 no.2:367-371
0 '64. (MIRA 17:11)

L 12177-66 EWT(d)/EWT(1) IJP(c)
ACC NR: AP5024721 SOURCE CODE: UR/0056/65/049/003/0990/0999
AUTHORS: ^{44,55} Arbuzov, B. A.; ^{44,55} Filippov, R. P.
ORG: ⁴⁴ Joint Institute of Nuclear Research (Ob'yedinenny institut yadernykh issledovaniy) ⁴¹
TITLE: Iteration method in nonrenormalizable field theory ^{21,44,55} ⁴¹ ^B
SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 3, 1965, 990-999
TOPIC TAGS: quantum field theory, iterated integral, particle interaction, Fredholm equation
ABSTRACT: This is a continuation of an earlier paper by the authors (OIZhI Preprint R-1910, Dubna, 1964, Nuovo Cim. v. 38, 796, 1965), devoted to the Edwards approximate equation for the vertex function in the nonrenormalizable theory of the interaction of scalar and vector particles. The present paper is devoted to an iteration method for solving the nonlinear equation for the vertex function in this theory. The properties of the arbitrary iteration derived for this problem in the earlier paper are examined and the iteration solution itself is studied in greater detail. The final procedure consists of separating the kernel of the integral equation into a more singular part and a

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L 12177-66

ACC NR: AP5024721

3
less singular part, and of investigating the solution for arbitrary values of the coupling constant. In the case of weak coupling the solution can be calculated to any degree of accuracy by means of a modified perturbation theory, which takes into account the nonanalytic dependence on the coupling constant. A correct choice of the zero approximation ensures convergence of the iterations and the possibility of applying the Fredholm method to the exact integral equation. Certain advantages are claimed for this method over that given by Feinberg and Pais (Phys. Rev. v. 131, 2724, 1963 and v. 133, B477, 1964). Authors are grateful to N. N. Bogolyubov for useful discussions. Orig. art. has: 1 figure and 41 formulas.

SUB CODE: 20/ SUBM DATE: 21Apr65/ NR REF SOV: 004/ OTH REF: 004

HW
Card 2/2

VISHNEVSKIY, A.A., professor, predsedatel'; CHISTOVA, M.A., sekretar'; KESHI-SHEVA, A.A.; KRICHEVSKIY, A.A., kandidat meditsinskikh nauk; UTESHV, S.S., kandidat meditsinskikh nauk; BEGEL'MAN, A.A., kandidat meditsinskikh nauk; YHLANSKIY, N.N.; ZATSEPIN, T.S. professor; PLOTKIN, F.M., professor; PATSIORA, M.D.; KAZANSKIY, V.I., professor; TROYAN, I.V.; FEDOROV, I.P.; FILIPPOV, A.V.; UTESHEV, S.S.; DOROFYEV, V.I.

Minutes of the session of the Surgical Society of Moscow and Moscow Province of September 26, 1952. Khirurgia no.3:92-95 Mr '53. (MLRA 6:6)

1. Khirurgicheskoye obshchestvo Moskvy i Moskovskoy oblasti. 2. Fakul'tetskaya khirurgicheskaya klinika sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta (for Krichevskiy).
(Heart--Surgery) (Arteries--Diseases)

FILIPPOV, A. V.

USSR/Biology - Photosynthesis
Wheat

11 May 50

"Critical Period for Spring Wheat With Regard to Light Intensity," V. A. Novikov,
A. V. Filippov, Leningrad Agr Inst, 4 pp

"Dok Ak Nauk SSSR" Vol LXXII, No 2

Discusses results of tests in 1947, 1948, and 1949 on sensitivity of spring wheat to insufficient light intensity during different periods of development. Plants were placed under gauze covering admitting only 20% normal light at various growth periods and effects on spikes of main stems tabulated. Finds critical period was that of formation of sexual cells, which had previously been found to be critical for insufficient water in soil by G. V. Zabluda. Submitted 8 Feb 50.

PA 160T3

CA FILIPPOV, A-V

110

Effect of insufficient light intensity on carbohydrate and protein content of leaves and developing ears of vernalized wheat. A. V. Filippov (Leningrad Agr. Inst.). *Doklady Akad. Nauk S.S.S.R.* 73, 135-6(1950).—Vernalized wheat specimens grown in subnormal light exposure conditions (8-9 days in cheesecloth-wrapped chambers) show subnormal content of monoses, sucrose, dextrans, maltose, starch, and hemicellulose; cellulose content is supernormal. Protein content is somewhat above the controls. G. M. K.

PROCESSES AND PROPERTIES NOTE

C

Arkhitekturnaya Terra Kotta (Architectural Terra Cotta),
A. V. FILIPPOV, N. V. FILIPPOVA, AND F. G. BUK. Published by Akademiya Arkhitektury SSSR, Moscow, 1941.
 228 pp., 208 illustrations. Price 18R. -- The authors contributed 5 chapters separately on the following subjects: (1) architectural terra cotta, its development, present state, and usefulness in Soviet construction; (2) fundamental technology, (3) coloring and forming, (4) forms and types, and (5) mounting and erection of terra cotta. This well-illustrated publication is intended to acquaint builders and architects with the possibilities of terra cotta in construction. It is comprehensive in coverage and presents valuable tabular information for students and designers. A J.S.

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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PROCESSES AND PROPERTIES INDEX

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CA

Ancient Cyclops bricks on the river Neptunaya. A. V. ELISEYEV. Trans. State Inst. for Testing Building Materials and Glass (Moscow) No. 32, 29-32 (1930).—During recent excavations near the Kremlin walls in Moscow there were found unusually large bricks measuring 650 X 289 X 186 mm. The bricks were laid with lime mortar, which when touched crumbled between the fingers. They were made of red clay and were well burnt; this gives evidence of remarkable technic, considering the size of the brick. Fracture showed incomplete mixing of raw materials. The date is assumed to be about 1585-83. S. I. MARINOV

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

1ST AND 2ND COLUMNS

3RD AND 4TH COLUMNS

5TH AND 6TH COLUMNS

7TH AND 8TH COLUMNS

9TH AND 10TH COLUMNS

11TH AND 12TH COLUMNS

13TH AND 14TH COLUMNS

15TH AND 16TH COLUMNS

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61ST AND 62ND COLUMNS

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67TH AND 68TH COLUMNS

69TH AND 70TH COLUMNS

71ST AND 72ND COLUMNS

73RD AND 74TH COLUMNS

75TH AND 76TH COLUMNS

77TH AND 78TH COLUMNS

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83RD AND 84TH COLUMNS

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89TH AND 90TH COLUMNS

91ST AND 92ND COLUMNS

93RD AND 94TH COLUMNS

95TH AND 96TH COLUMNS

97TH AND 98TH COLUMNS

99TH AND 100TH COLUMNS

FILLIPOV, A. V.

TARASOV, P. W. - Inzh. i., KORCHAGIN, A. A. - Inzh., SAKHAROV, I. G. - Avkh, GALKIN, N. I. -
St. Nauchn., FILLIPOV, A. V. - Chl.-Korr. Akademii Arkhitektury SSSR Prof.

Nauchno-issledovatel'skiy institut stroi-tel'noy tekhniki Akademii arkhitektury SSSR

Tipy keramicheskikh izdeliy, tekhnologiya ikh izgotovleniya i metody krepleniya
Page 100

SO: Collection of Annotations of Scientific Research Work on Construction, completed
in 1950, Moscow, 1951

FILIPPOV, A. V.

FILIPPOVA, S. V. - kand. tekhn. nauk. i, FILIPPOV, A. V. - Chl.-Korr. Akademii
arkhitektury SSSR Prof.

Nauchno-issledovatel'skiy institut stroitel'noy tekhniki Akademii arkhitektury SSSR

TEKNOLOGIYA IZGOTOVLENIYA GLAZUROVANNYKH OBLITSOVOCHNYKH IZDELIY Page 101

SO: Collection of Annotations of Scientific Research Work on Construction, completed
in 1950, Moscow, 1951

FILIPPOV, A. V.

G. L. Slobodkin and A. V. Filippov, Voprosy energosnabzheniya krupnogo stroitel'stva /Power Supply for Large-Scale Construction/, Gosenergoizdat, 5 sheets,
4,000 copies

States the operating experience with the power supply and electric equipment of the construction machinery used at the Taimlyansk Hydroelectric Station. Describes the improvements introduced in this respect by the rationalizers of the construction job.

Brochure intended for engineers, technicians and workmen on large-scale construction jobs who work in the field of power supply.

SO: U-6472, 23 Nov 1954

CHARNYY, Semen Semenovich, kandidat tekhnicheskikh nauk; BRIK, Frida Germanovna, inzhener; FILIPPOV, A.V., redaktor; USTRUGOVA, N.L., redaktor;

[Facing brick] Litsevoi kirpich. Pod obshchei red. A.V.Filippova. Moskva, Gos.isd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 133 p. (MIRA 9:5)

1.Akademiya arkhitektury SSSR, Moscow. Institut stroitel'noy tekhniki. 2.Chlen-korrespondent Akademii arkhitektury SSSR.(for Filippov) (Bricks)

FEL'DMAN, L.V.; ORLOV, A.I.; FILIPPOV, A.V.; CHARNYY, S.S.; BRIK, F.G.

Clay bricks for facings. Rats. i izobr.predl. v stroi. no.108:
28-81 '55. (MIRA 8:10)

(Bricks)

FILIPPOV, A.Ye.

Daily component in Pulkovo observations of δ Cassiopeiae. Astron.
tsir. no. 148:13-14 Ap '54. (MLRA 7:8)

1. Observatoriya Akademii nauk SSSR (Poltava)
(Latitude variation)

~~FILIPPOV, A.Ya.~~

Using A.IA.Orlov's criterion in evaluating the precision of some series of latitude observations. Astron.tsir. no.152:19-20 S '54.
(MLRA 8:3)

1. Poltava observatoriya.
(Latitude)

FILIPPOV, A. YE.

FILIPPOV, A. YE.- "Comparison of the Pulkovo and Johannesburg Latitude Observations."
Principle Astronomical Observatory of the Acad Sci USSR, Leningrad, 1955
(Dissertations For the Degree of Candidate of Physicomathematical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

FILIPPOV, A.Ye.; AKSENT'YEVA, Z.N., otvetstvennyy redaktor; SOKOLOVSKIY, L.I.
redaktor; ZHUKOVSKIY, A.D., tekhredaktor.

[Comparison of latitude observations at Pulkovo and Johannesburg]
Sraynenie pulkovskikh i iogannesburgskikh nabludenii shirot, Kiev,
Izd-vo Akad.nauk Ukr.SSR.1956. 198 p. (Poltava, Gravimetrychna
observatoriia. Trudy, vol.6) (MIRA 10:1)
(Latitude)

FILIPPOV, A.Ye.

The motion of the earth's mean pole. *Astren.zhur.* 33 no.3:414-422
My-Je '56. (MLRA 9:10)

1. Pletavskaya gravimetricheskaya observatoriya Akademii nauk USSR.
(Latitude variation)

FILIPPOV, A.Ye.

Determination of the lunar aberration wave in latitude variations
according to the results of observations on two zenith telescopes.
Astron.tsirk. no.168:14-16 '56. (MLRA 9:8)

1. Poltava, Observatoriya.
(Aberration)

FILIPPOV, A.Ye.

Possible reason for systematic errors in latitude determination.
Trudy Polt. grav. obser. 7:111-118 '58. (MIRA 11:10)
(Latitude)

S/035/62/000/008/075/090
A001/A101

AUTHOR: Filippov, A. Ye,

TITLE: Tri-axiality of the Earth on the basis of latitude observations
from 1894 to 1957

PERIODICAL: Referativnyy zhurnal, *Astronomiya i Geodeziya*, no. 8, 1962, 24,
abstract 80206 ("*Nauchn. zap. L'vovsk. politekhn. in-t. Ser. geod.*",
1961, no. 8, 18 - 22)

TEXT: Two thirty-year periods of latitude observations have been processed. Pole coordinates calculated by A. Ya. Orlov's system were assumed. The annual and semi-annual components were excluded by two essentially different methods, however, the processing results in both variants are practically coincident. On the average, for the first period (1894.7 - 1924.6) it was obtained 13°5 E for the longitude of the major semi-axis of the equator and 676 m for the difference of its semi-axes. For the second period (1928.5 - 1957.1), 50°5 E and 1,130 m respectively. Calculations performed with a more limited data, characterized by greater average values of Chandler motion amplitude, yielded somewhat lesser

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S/035/62/000/008/075/090
A001/A101

Tri-axiality of the Earth on...

scatter in λ values for the two periods. However, these results are not considered by the author as more reliable. At present it can not be maintained that latitude observations indicate the existence of ellipticity of the Earth's equator. There are 7 references. ✓

B. Pertsev

[Abstracter's note: Complete translation]

Card 2/2

ACC NR: AR6028748

SOURCE CODE: UR/0270/66/000/006/0033/0034

AUTHOR: Filippov, A. Ye.

TITLE: Certain generalizations in the formulas describing the shape of the earth's physical surface

SOURCE: Ref. zh. Geodeziya, Abs. 6.52.246

REF SOURCE: Geod., Kartogr. i aerofotos"yemka. Mezhd. resp. nauchno-tekhn. sb., vyp. 2, 1965, 54-73

TOPIC TAGS: earth planet, physical geography

TRANSLATION: The author has derived formulas defining the earth's physical surface by considering various small second order terms and without using the normal field as did N. K. Migal'. The limiting condition for the determination of the gravitation potential is:

$$\begin{aligned} \frac{\partial T}{\partial v} + \frac{2T}{a} = & -g - \frac{2}{a} \int g dh_{\omega} + g_{\epsilon} \left[1 + \beta \sin^2 B - \right. \\ & \left. - \beta \sin^2 2B + \frac{H}{a} (15q - 6\beta - 2\alpha) \sin^2 B + \right. \\ & \left. + \frac{H}{a} \left(\frac{H}{a} - 7q + 2\beta \right) \right] + \frac{2}{a} (w_0 - U_0). \end{aligned} \quad (1)$$

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UDC: 528.21:531.26

ACC NR: AR6028743

where v is the direction of an outside normal to the surface S_0 of the given ellipsoid of rotation which has parameters a and a , N is the approximate altitude of the points on the earth's surface, taken off the contour maps, S is an auxiliary surface, which approximate the earth's physical surface Σ , and is constructed by plotting the altitudes H normally to S_0 , dH_0 is a unit increment of elevation, g is the acceleration of gravity on the surface Σ , W_0 is the approximate value of the gravity potential at sea level, V_0 is the approximate value of gravity potential chosen so that the potential T is of the second order (Va^2) on the auxiliary surface S :

$$V_0 = \frac{P}{\rho} + \frac{Q}{\rho^2} (1 - 3 \sin^2 \Phi) + \frac{R}{\rho^4} (3 - 30 \sin^2 \Phi + 35 \sin^4 \Phi).$$

In this expression, ρ and Φ are the earth-centered coordinates of an outer point, referred to the center of the theoretical ellipsoid; P , Q , and R are certain parameters which may be expressed in terms of g_e , β and β_1 by the following expressions:

$$P = g_e a^2 \left(1 - q + \beta - \frac{1}{7} a^2 + \frac{6}{7} a q - \frac{8}{7} \beta_1 \right),$$

$$Q = g_e a^4 \left(\frac{2}{3} q - \frac{1}{3} \beta + \frac{4}{21} a^2 - \frac{31}{21} a q + \frac{2}{3} a \beta + \frac{4}{21} \beta_1 \right),$$

$$R = g_e a^6 \left(\frac{5}{21} a q - \frac{1}{35} a^2 - \frac{2}{15} a \beta + \frac{4}{105} \beta_1 \right).$$

Card 2/3

ACC NR: AR6028743

The harmonic function T which remains regular all the way to infinity is determined by the method devised by M. S. Molodenskiy. On the surface S , this function should satisfy the limiting condition (1). Formulas describing the function T were derived and transformations are given between the altitudes h on the earth's physical surface and the corresponding points on the auxiliary surface S . The ξ and η components of deviation of the plumbline are defined. Examples are furnished of transformations from the author's formulas to those of N. K. Migal' for determining the shape of the mean outer surface of the planet relative to the theoretical ellipsoid of rotation with an uneven surface. Another set of expressions transforms the author's formulas to those of M. S. Molodenskiy which describe the earth's physical surface in relation to the initial mean sllipsoid. 5 references. V. Buzuk.

SUB CODE: 08

Card 3/3

FILIPPOV, B. A., Engineer Card Tech Sci

Dissertation: "Investigation of the Electric Machine System for Excitation Control in the Generator of Reversible Electric Drive."

29/6/50

Moscow Order of Lenin Power Engineering Institute imeni V. M. Molotov.

SO Vecheryaya Moskva
Sum 71

Preventing the formation of crystals during the filtration of champagne. B. A. Filippov and T. A. Chilatovich. (Champagne Winery, Leningrad). *Vinodol' i Vinogradarstvo S.S.S.R.* 11, No. 5, 53(1951).—Asbestos-cellulose plates used for the industrial filtration of champagne wines were found to contain Ca, presumably absorbed by the cellulose from the tap water used for the making of the filters. Soon after filtration through such plates a crystal ppt. was formed in the products consisting mostly of Ca salts of tartaric acid. Washing the plates before use with a dry wine (250-300 L/plate) prevented the formation of the ppt. The wine used for the washing after repeated use was utilized later for the production of inferior-quality wines. B. Wierbicki

FILIPPOV, B.A.

State of the hydrometeorological service in providing ships of the
maritime transport and fishery fleets with weather information at sea.
Biul.Okean.kom. no.6:9-13 '60. (MIRA 14:7)
(Meteorology, Maritime)

FILIPPOV, B.A.

Activities of the Section of Navigational Oceanography. Biul. Okean
kom. no.8:5-9 '61. (MIRA 15:1)
(Meteorology, Maritime)

DAVIDAN, I.N., kand. geograf.nauk; ZYKOV, I.D.; FILIPPOV, B.A., kand. geograf.
nauk

The first oceanographic expedition of the Hydrometeorological Service
of the U.S.S.R. to the North Atlantic. Meteor. i gidrol. no.6:40-43
Je '65. (MIRA 18:5)

ФИЛИПОВ. В.А., канд. географ. наук

The International Hydrologic Survey of the Baltic Sea. Metacr. 1
gidrol. no.8:54-55 Ag '65. (MIRA 18:7)

1. Leningradskoye otdeleniye Gosudarstvennogo okeanograficheskogo
instituta.

FILIPPOV, B.A.

Hydrology of the coastal waters of the Antarctic. Trudy GOIN
no.87:64-76 '65. (MIRA 19:1)

FILIPPOV, B.G.

VASIL'YEV, I.G.; ZIMNITSKAYA, L.P.; SKLYARCHIK, Ye.L.; SMIRNOV, K.M.;
FILIPPOV, B.G.; KHITUN, S.A.; SHATALOV, A.M.

Daily rhythm of the ability to work in man [with summary in English].
Fiziol.zhur. 43 no.9:817-824 S '57. (MIRA 10:11)

1. Krasnoznamenenny voyenny institut fizicheskoy kul'tury i sporta
im. V.I.Lenina, Leningrad.

(PHYSICAL EFFICIENCY,
daily rhythm (Rus))

(PERIODICITY,
daily rhythm of phys. efficiency (Rus))

EG
AZAROV, K., polkovnik; FILIPPOV, B., mayor

Improve morning physical exercises. Voen. vest. 38 no.5:51-61
My '58.

(MIRA 11:5)

(Physical education and training, Military)

ELIPPOV, B.G.

22b-141. Spot Welding of Heads to Pins. (In Russian.) B. G. Elippov. *Atyapenny Deto (Welding)*, Jan. 1948, p. 27. Special Jig.

ASME-SEA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND LETTERS	3RD AND 4TH LETTERS	5TH AND 6TH LETTERS
A	B	C
D	E	F
G	H	I
J	K	L
M	N	O
P	Q	R
S	T	U
V	W	X
Y	Z	

FILIPPOV, B. G.

PA 12/49T36

USSR/Engineering

Aug 48

Welding - Equipment

Welding - Electrodes

"New Electrode Holder for Arc Welding," B. G.
Filippov, Engr-Tech, 1 p

"Avtogennoye Delo" No 8

Lists disadvantages of ED-2 electrode holder. Gives
detailed dimensioned sketches of new type.

FIB

12/49T36

FILIPPOV, B. G.

Engr. - Tech.

"Spot welding of nuts on bolts," Avtogen. Delo, No. 1, 1942

AUTHOR: Filippov, B.G. SOV-135-58-9-13/20

TITLE: Equipment for Spot Welding Small-Diameter Cylindrical Parts
(Osnastka dlya tochechnoy svarki tsilindricheskikh detaley malogo diametra)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 9, p 41 (USSR)

ABSTRACT: Attempts are being made to improve the usual machine for spot-welding cylindrical parts up to 25 mm in diameter with copper electrodes, by fitting a rigid brass cantilever arm and exchangeable horizontally fitted electrodes. The new equipment was used for one year under workshop conditions and proved satisfactory. There are 2 diagrams.

1. Spot welding--Applications 2. Spot welding--Equipment

Card 1/1

FILIPPOV, B.I.

AUTHORS: Filippov, B.I., Engineer, Davydov, V.D. 67-58-2-5/26

TITLE: The Automation of Oxygen Turbocompressors (Avtomatizatsiya kislородnykh turbokompressorov)

PERIODICAL: Kislород, 1958, // Nr 2, pp. 19-26 (USSR)

ABSTRACT: It is said in the introduction that work with oxygen turbocompressors (especially for starting) can be carried out only by highly qualified specialists, and that it is therefore of great importance that the automation of such plants be completed in such a manner that starting, operating and stopping are simplified as much as possible and fitted out with safety devices. In the section: The System of Automatic Starting of Turbocompressors various manipulations are first described which must be taken into account when adjusting a non-automatized plant before starting; also other manipulations which are necessary for adjusting the apparatus for normal operation after starting are described. "VNI IKIMASH" (All-Union Scientific Research Institute for the Construction of Oxygen Machines) designed a scheme for the automatic control of the apparatus, with the aid of which such functions as starting and stopping are fully automatized and can be brought about by simply pressing

Card 1/3

The Automation of Oxygen Turbocompressors

67-58-2-5/26

a button. A scheme for such an automatic starting- and stopping device is described together with a scheme of the automatic control of this apparatus in the section: The System of Automatic Control. In a further section: The System of Automatic Stopping of the Apparatus 2 photographs of the control platform of such an automatized apparatus are shown and the various functions are described, which are automatically set in motion by pressing the "stop button". In the section : The System of Safety Measures in a Turbocompressor the following signaling devices are described: Oil pressure signaling system " SPDS ", control of water consumption "RR", control of the temperature of bearings by the signaling station of the 12-point electron bridge; control of temperature of oxygen and of the cooled oil by the same electron bridge; control of the temperature of the electron bridge "MSR-018", and a number of external safety measures, among them the disturbance indicator relay "SRK", which, in the case of a breakdown, automatically stops the operation of the apparatus. In the section: "The Automation of Turbomachines in Industry it is said that such a fully automatized plant with turbocompressors of the type "KTK-12.5" has been in operation at the Shchekino gas works since 1957. Such a fully automatic turbocompressor, type KTK-7" is on show at the Brussels World Exhibition. In VNIKIMASH the same compressors of the type

Card 2/3

The Automation of Oxygen Turbocompressors

67-58-2-5/26

"KTK-7" are at present adapted for operation under tropical conditions. They are destined for the metallurgical kombinat of Bhilay in India. There are 5 figures.

AVAILABLE: Library of Congress

1. Turbocompressors--Starting 2. Turbocompressors--Automatic control 3. Turbocompressors--Safety measures

Card 3/3

KOZLOV, Nikolay Yakovlevich, inzh.; LEVANOV, Nikolay Mikhaylovich, dok.tekhn.nauk, prof.; POLUKHIN, Petr Ivanovich; KRASIL'NIKOV, Aleksey Nikolayevich; PANARIN, Nikolay Yakovlevich; ELLIPPOV, Boris Ivanovich; MARTYNOV, A.P., red.; GOROKHOVA, S.S., tekhn.red.

[Technology of the manufacture of vibration rolled elements and their use in the construction industry] Tekhnologiya izgotovleniya vibroprokatnykh konstruksii i ikh primeneniye v stroitel'stve. Moskva, Vysshaya shkola, 1963. 310 p. (MIRA 17:4)

1. Nachal'nik Spetsial'nogo konstruktorskogo byuro Prokatdetal' (for Kozlov, Levanov).

LAZAREV, I.Ye., inzhener; FILIPPOV, B.I., inzhener.

Precast reinforced concrete structural elements for multistory
industrial buildings subject to heavy loading. Stroi.prom. 32 no.4:
18-20 Ap '54. (MLRA 7:5)
(Precast concrete construction)

FILIPPOV, B. I.

Filippov, B. I.

"The history of development of the mechanization of construction in the USSR." Min Higher Education USSR. Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev. Moscow, 1956. (Dissertation for the Degree of Doctor in Sciences.)

Knizhnaya letopis'
No. 35, 1956. Moscow.

FILIPPOV, B.I., inzh.

Developing complete mechanization of building operations. Nov.tezh.
i pered. op. v stroi. 19 no.6:16-19 Je '57. (MIRA 10:10)
(Building)

FILIPPOV, B. I.

DULETOV, N.A., inzhener; FILIPPOV, B.I., inzhener.

Reinforced concrete sanitary panels for multistoried apartment
houses. Cor. Khov. Mosk. 31 no.4:40 Ap '57. (MLRA 10:6)
(Sanitary engineering)

FILIPPOV, B. I., Candidate Tech Sci (diss) -- "On the history of development of mechanized construction in the USSR". Moscow, 1959. 18 pp (Min Higher Educ USSR, Moscow Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybyshev), 130 copies (KL, No 23, 1959, 168)

FILIPPOV, B.I., kand.tekhn.nauk

Preparing engineers for assembly organizations. Mont.i spets.rab.
v stroi. 23 no.8:29-31 Ag '61. (MIRA 14:8)

1. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya
SSSR.

(Machinery--Erecting work)

FILIPPOV, B.I., kand.tekhn.nauk

Improve the preparation of young engineers in the field of labor protection. Mekh. stroi. 20 no.11:21 N '63. (MIRA 17:1)

FILIPPOV, B.K.

Electric motors with a 0,6 to 100 kilowatt capacity of the new unified series A02-92-4. Biul. tekhn.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekhn. inform. 18 no.3:33-34 Mr '65.

(MIRA 18:5)

AUTHOR: Filippov, B.M. (Moscow) SOV-26-58-9-13/42

TITLE: A Russian Scientist with a Materialistic World Conception
(Russkiy uchenyy-materialist). On the 100th Birthday of
M.M. Filippov (K 100-letiyu so dnya rozhdeniya M.M. Filippova).

PERIODICAL: Priroda, 1958, Nr 9, pp 80-84 (USSR)

ABSTRACT: This is a brief biography of M.M. Filippov (1858-1903) with
data on his publications and scientific work. There is 1
photo and 6 Soviet references.

1. Scientists--USSR

Card 1/1

FILIPPOV, B.M.

Laying of switches on slab foundations. Put' i khoz. 7
no.5:25-27 '63. (MIRA 16:7)

1. Nachal'nik Luninetskoy distantzii puti, Belorusskoy dorogi.
(Railroads--Switches)

ZNAMENSKIY, P.I.; SMYKOV, Ye.K., dotsent; FILIPPOV, B.M.

Maintenance and repair of switches laid on reinforced concrete slabs. Put' i put. khoz. 8 no.5:18-19 My '64.

(MIRA 17:6)

1. Glavnyy inzh. sluzhby puti, stantsiya Luninets, Belorusskoy dorogi (for Znamenskiy). 2. Belorusskiy institut inzhenerov zheleznodorozhnogo transporta (for Smykov). 3. Nachal'nik Luninetskoy distantsii puti Belorusskoy dorogi (for Filippov).