

SLAVNIN, Mikhail Ippolitovich; IOKHVIDOV, E.S., inzh., retsenzent;
LARIONOV, G.Ye., tekhn. red.

[Electrical equipment of electric power plants and transformer substations] Elektrooborudovanie elektricheskikh stantsii i transformatornykh podstantsii. Moskva, Gosenergoizdat, 1963. 551 p. (MIRA 17:2)

POYARKOV, Mikhail Fedorovich. Prinimala uchastiye POYARKOVA, T.M.;
IOKHVIDOV, E.S., red.

[Electrical equipment of power plants] Elektricheskoe ob-
rudovanie stantsii. Moskva, Energia, 1964. 567 p.
(MIRA 17:12)

ТОКВИДОВ, У.С., инж,

Use of electric stoves in city dwellings in the U.S.S.R. Nov. tekhn.
zhil.-khoz. : Elek. i topl.gor, no.5:10-15 '61, (MIRA 18:9)

L 36479-66 ENT(1)

ACC NR: AP6027063

SOURCE CODE: UR/0091/65/000/005/0001/0002

AUTHOR: Iokhvidov, E. S.

ORG: none

TITLE: New stage in the development of Soviet electric power engineering

SOURCE: Energetik, no. 5, 1966, 1-2

TOPIC TAGS: electric power engineering, industrial development, electric power plant, steam turbine, electric power transmission

ABSTRACT: A review of the state of soviet electrical power engineering. It is noted that the second half of the past seven year plan saw the construction of many powerful steam-turbine power plants of 150, 200 and 300 thousand kw; by the beginning of 1966, 116 such installations were in operation, plus 12 steam turbine installations of 1,000,000 kw and over, including the Staro-Beshevskaya regional power station of 1,900,000 kw, the Pribaltiyskaya and Verkhne-Tagil'skaya regional stations of 1,600,000 kw. In the coming five year plan, the main thrust of power construction will be the construction of powerful steam turbine installations, with planned power outputs of 2,400,000 kw and over, including mainly individual power units of 300,000 kw, operating with supercritical steam parameters. Twelve such power units are already in

Card 1/2

L 36479-66

ACC NR: AP6027063

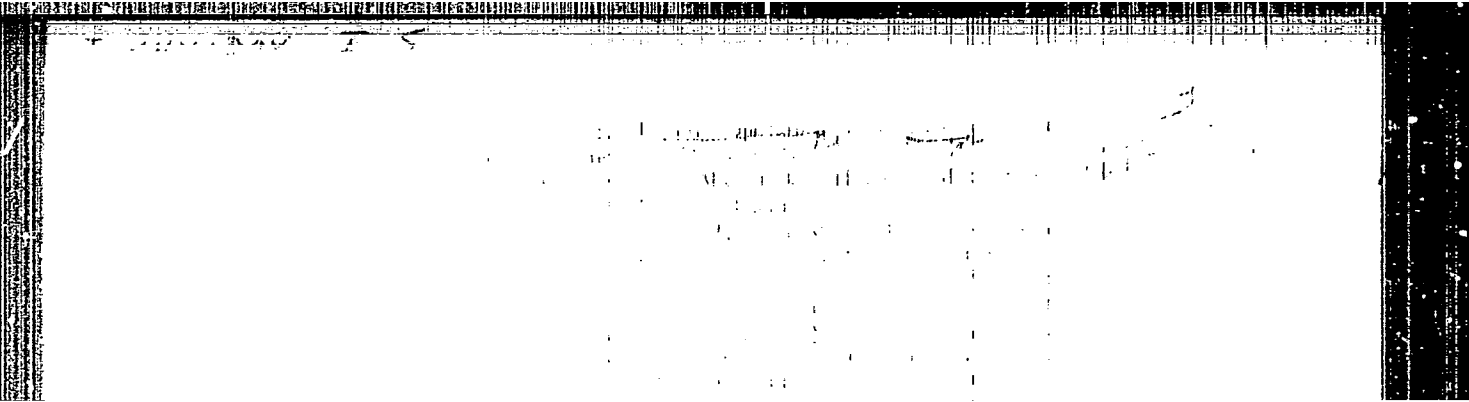
operation. In 1966-70, 68-70 more will be built. Units of 500-800 thousand kw power will also be installed by 1970. Three are to be built in all; also, the two first heat producing units of 250,000 kw capacity are to be built in the current five year plan. The plans for the next five year plan also include the construction of long-distance electric power transmission lines, bringing power from northern Kazakhstan to the central European portion of the USSR. The lines will operate at 750 kv AC and 1,500 kv DC. [JPRS: 36,528]

SUB CODE: 10, 05 / SUBM DATE: none

Card 2/2 MLP

IOKHVEDOV, F.M.; KUNTYSH, V.B.

Studying the flow around staggered bundles of pipes with smooth
and rough surface in a transverse flow. Trudy ITITSBP no.14:151-
157 '64. (MIRA 18:5)



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USSR /Mathematics - Nonlinear Operators

Card 1/1

Author : Vaynberg, M. M.

Title : Hyperboloids and the conditional extremum of certain functionals in Hilbert space

Periodical : Usp. mat. nauk, 9, No 2(60), 105-112, 1954

Abstract : In the investigation of certain problems of the theory of nonlinear operator equations it is necessary to find the sufficient conditions for the existence of the conditional extremum of the functional $\phi(x) = f(Ax)$, where $f(x)$ is a differentiable functional and A is linear operator in a real Hilbert space H . Here the author gives the sufficient conditions for the existence of the conditional extremum of functional $\phi(x)$ relative unbounded manifolds, hyperboloids generated by A . These concepts, to which certain problems of nonlinear analysis reduce, are also connected with the investigations of L. S. Pontryagin, M. G. Kreyn, M. A. Rutman, and I. S. Iokhviudov.

Submitted : April 1, 1953

IOKHVIDOV, I. S.

USER/Mathematics -

Card 1/1 Pub. 22 - 5/51

Authors : Iokhvidov, I. S.

Title : Regarding the theory of Toeplitz's indefinite forms

Periodical : Dok. AN SSSR 101/2, 213-216, Mar. 11, 1955

Abstract : Properties and application to the theory of finite difference equations of indefinite Toeplitz forms of sequences

$$\sum_{p,q=0}^n c_{p-q} \xi_p \bar{\xi}_q$$

are described and discussed. A few particular cases are analyzed. Five USSR references (1944-1950).

Institution : The Hydrotechnical Institute, Odessa

Presented by : Academician N. N. Kolmogorov, December 14, 1954

11/10/56

1. Mihlin, I. M. and Kirin, M. G. Spectral theory of
self-adjoint operators in spaces with indefinite metric. I. Izv.
Akad. Nauk SSSR Ser. Mat. 5 (1956), 367-432. (Russian)

2. A Hilbert space H_n with an indefinite inner product is
considered. A basic axiom is the decomposability of H_n
into a direct sum of two subspaces H_+ (n -dimensional)
and H_- (the orthogonal complement of H_+), such that
the inner product is positive definite on H_+ and H_- ,
provided with the norm $\|x\| = \|x_+\|$. A basic
theorem is that if H_+ is assumed that an operator A on
 H_n is positive definite, then A has a finite number of

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1. The first part of the document is a list of the names of the individuals who were involved in the project. The names are listed in alphabetical order and include the following: [illegible names]

2. The second part of the document is a list of the dates when the individuals were involved in the project. The dates are listed in chronological order and include the following: [illegible dates]

3. The third part of the document is a list of the locations where the individuals were involved in the project. The locations are listed in alphabetical order and include the following: [illegible locations]

4. The fourth part of the document is a list of the activities that the individuals were involved in. The activities are listed in alphabetical order and include the following: [illegible activities]

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7. The seventh part of the document is a list of the projects that the individuals were involved in. The projects are listed in alphabetical order and include the following: [illegible projects]

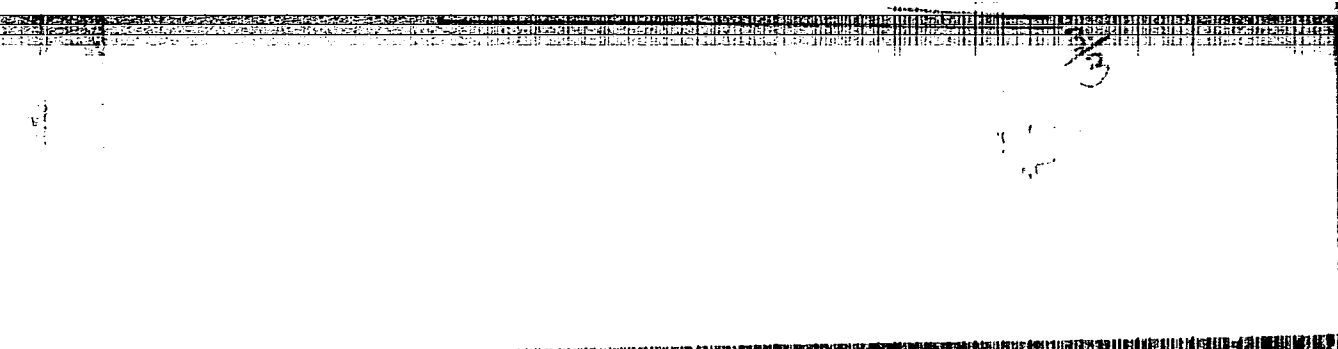
8. The eighth part of the document is a list of the tasks that the individuals were involved in. The tasks are listed in alphabetical order and include the following: [illegible tasks]

9. The ninth part of the document is a list of the responsibilities that the individuals were involved in. The responsibilities are listed in alphabetical order and include the following: [illegible responsibilities]

10. The tenth part of the document is a list of the achievements that the individuals were involved in. The achievements are listed in alphabetical order and include the following: [illegible achievements]

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IOKHVIDOV, I.S.; KREYN, M.G.

"Spectral theory of operators in spaces with an indefinite valuation.
Part 1." (Trudy Mosk.mat.ob-va vol.5, 1956) Trudy Mosk.mat.ob-va
6:486 '57. (MIRA 10:11)

(Operators (Mathematics))

I o K H v , D a v , I . S .

14(0) **SPACE-TIME REPRESENTATION** 888/3940
Moshinsky matematicheskiye obozhateniya

Frady, V. S. (Transactions of the Moscow Mathematical Society, Vol. 8) Moscow, Fizmatgiz, 1979. 518 p. Russian only illustrated. 2,000 copies printed.
M., A.F. Epshin; Tech. M.: S.S. Gavrillan; Editorial Board: P.O. Akhmedov, I.M. Gel'fand, and O.S. Galovina.

NOTE: This book is intended for mathematicians and theoretical physicists.

CONTENTS: This book contains a collection of articles by leading Soviet mathematicians on problems in pure and applied mathematics. All articles were written in 1977 and 1978. Among the topics discussed are: analytic - operator functions, function spaces, generalized plane flow of a viscous non-compressible liquid, root spaces, products of groups, differential equations, ordinary and partial differential equations, 3rd and 4th order linear equations, homogeneous spaces, spectral theory of operators, and generalized Sturm processes. References accompany each article.

NOTE: M.K. Integral Representations of Analytic-Operator Functions of One Independent Variable.

Bessil'va, S.A. Generalized Spaces	3
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Cherkis, V.A. A Study of Systems of Ordinary Differential Equations With Singularity	121
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Chernikov, V.V. and N.I. Ginzburg. The Geometry of Homogeneous Spaces and Representations in Homogeneous Spaces and Related Problems of Integral Geometry. I	183
Smolch, A.G. Direct Products in Algebraic Categories	191
Polovnikov, I.B., and M.G. Ponomarev. The Spectral Theory of Operator Matrices With Indefinite Metric. II	195
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CONTENTS: LIBRARY OF CONGRESS
CARD 3/7

IOKHVIDOV, I.S.; KREYN, M.G. (Odessa)

Spectrum theory of operators in spaces with an indefinite
metric. Part 2. Trudy Mosk.mat.ob-va 8:413-496 '59.
(MIRA 13:2)

(Operators (Mathematics)) (Topology)

16(1)

AUTHORS: Iokhvidov, I.S., Rutman, M.A. SOV/42-14-3-20/22

TITLE: University Conference on Functional Analysis and its Applications

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 3,
pp 221 - 226 (USSR)

ABSTRACT: The paper contains a report on the conference on functional analysis and its applications which took place on October 20-25, 1958 in Odessa at the Hydrometeorological Institute. There were 140 participators from 8 republics of the USSR. M.G. Kreyn opened the conference. General lectures were given by G.Ye. Shilov and I.M. Gel'fand (read out by M.I. Grayev). Lectures given by : R.A. Aleksandryan, Yu.M. Berezanskiy, N.I. Vilenkin, M.I. Vishik and L.A. Lyusternik, I.M. Gel'fand and M.I. Grayev, M.I. Grayev, V.A. Il'in, L.V. Kantorovich and G.Sh. Rubinshteyn, M.G. Kreyn, M.A. Krasnosel'skiy and S.G. Kreyn, V.B. Lidskiy, M.A. Naymark, A.Ya. Povzner and I.V. Sukharevskiy, D.A. Raykov, A.N. Tikhonov and A.A. Samarskiy, S.V. Fomin, D.E. Allakhverdiyev, B.V. Bazanov, N.Ya. Vilenkin, Yu.P. Ginzburg, Yu.L. Daletskiy, E.I. Gol'dengershel', D.P. Zhelobenko, G.I. Kats, I.S. Kats, A.A. Kirillov, I.Ye. Lutsenko,

Card 1/3

University Conference on Functional Analysis and its
Applications

SOV/42-14-3-20/22

V.E. Lyantse, G.V. Maykov and S.N. Sokolov, R.G. Maksudov,
V.P. Maslov, R.A. Minlos, B.S. Mityagin, V.I. Sobolev, I.I.
Pyatetskiy - Shapiro, I.A. Sakhnovich, L.D. Fadeyev, S.V.
Fomin, G.Ye. Shilov, Yu.L. Shmul'yan, A.V. Shtaus, M.I. Kliot-
Dashinskiy, M.V. Azbelev and Z.B. Tsalyuk, K.G. Akhmedov, I.Ya.
Bakel'man, M.Sh. Birman, Ya.V. Bykov, Yu.N. Valitskiy and M.K.
Fage and V.G. Khriptun, B.A. Vertgeim, V.P. Glushko and S.G.
Kreyn, A.I. Guseynov and A.A. Babayev, M.G. Dzhavadov, I.A.
Kupriyanov, Yu.F. Korobeynik, A.I. Koshelev, O.A. Ladyzhenskaya,
A.D. Lyashko, L.G. Nizhnik, M.V. Maslannikov, A.M. Molchanov,
M.A. Rutman, Z.I. Rekhitskiy, S.N. Slugin, M.V. Fedoryuk.
S.D. Eydel'man, V.A. Yakubovich, G.N. Agayev, G.P. Akilov and
A.M. Vershik, I.A. Bekhtin, M.L. Brodskiy, M.M. Vaynberg, I.V.
Gel'man, I.Ts. Gokhberg and A.S. Markus, A.S. Dynin, M.I.
Kadets, A.G. Kostyuchenko, B.M. Makarov, M.A. Krasnosel'skiy
and Ya.B. Rutitskiy, Ya.D. Mamedov and R.M. Sultanov, A.S.
Markus, Ye.Ya. Melamed, A.I. Perov, S.S. Ryshkov, D.V.
Salekhov, P.G. Skvortsov, Sya Do-shin, and K.M. Fishman.

Card 2/3

University Conference on Functional Analysis and its Applications SOV/42-14-3-20/22

In the final session the following resolutions were passed :
1.) The next functional analytic meeting will take place in September 1959 at Baku. 2.) Delivery of the material concerning the past meeting to the editors of the Uspekhi matematicheskikh nauk for publication. 3.) Organization of a new periodical "Functional Analysis and Applications". A committee consisting of A.N. Tikhonov, Corresponding Member, AS USSR ; M.G. Kreyn, Corresponding Member, AS Ukr.SSR ; Professors Yu.M. Berezanskiy, M.A. Krasnosel'skiy and G.Ye. Shilov is commissioned to arrange the corresponding steps.

Card 3/3

IOKHVIDOV, I. S.

Unitarnyye operatory v prostranstve s indefinitnoy metrikoy. Odessa, trudy in-ta. Inzh. Morsk. Flota, 7(1947).

SO: Mathematics in the USSR, 1917-1947

edited by Kurosh, A. G.

Markushevich, A. I.

Rashevskiy, P. K.

Moscow-Leningrad, 1948

IOKHVIDOV, I.S.

Regular full-projection lineal elements in spaces having a general bilinear Hermitian metric. Dokl. AN SSSR 139 no.4:791-794 Ag '61. (MIRA 14:7)

1. Odesskiy inzhenerno-stroitel'nyy institut. Predstavleno akademikom L.S. Pontryaginym.
(Operator, Hermitian) (Spaces, Generalized)

IOKHVIDOV, I.S.

Boundedness of isometric J-operators. Usp. mat. nauk 16 no.4:167-170
Izv. Ak. Nauk SSSR Ser. Mat. (MIRA 14:8)
(Operators (Mathematics)) (Hilbert space)

GINZBURG, Yu.P.; IOKHVIDOV, I.S.

Studies on the geometry of infinite-dimensional spaces with
bilinear metric. Usp. mat.nauk 17 no.4:3-56 '62. (MIRA 15:8)
(Spaces, Generalized)

IOKHVIDOV, I.S.

Singular lineals in spaces with arbitrary Hermitian-bilinear
metric. Usp. mat.nauk 17 no.4:127-133 '62. (MIRA 15:8)
(Distance geometry)

GHINZBURG, I. P.; IOHVIDOV, I. S. [Iokhvidov, I.S.]

Studies on infinite dimensional space geometry with bilinear
metric. Analele mat 17 no. 3:3-56 J1-S '63.

IOKHVIDOV, I.S.

Operators with perfectly continuous iterations. Dokl. AN SSSR 153
no.2:258-261 N. '63. (MIRA 16:12)

1. Odeskiy inzhenerno-stroitel'nyy institut. Predstavleno
akademikom P.S.Novikovym.

IOKHVIDOV, I.S.

Singular lineals in spaces. Ukr.mat.zhur. 16 no. 3:300-308
'64. (MIRA 17:7)

IOKHVIDOV, I.S.

Lemma of K. Fan generalizing A.N. Tikhonov's fixed point
principle. Dokl. AN SSSR 159 no.3:501-504 N '64
(MIRA 18:1)

1. Odesskiy inzhenerno-stroitel'nyy institut. Predstavleno
akademikom L.S. Pontryaginyam.

IOKHVIDOV, I.S.

G-isometric and J-semiunitary operators in Hilbert space.
Usp. mat. nauk 20 no.3:175-181 My-Je '65.

(MIRA 18:6)

AFANAS'YEV, A.P.; ANUCHIN, V.G.; VINOGRADOV, K.V.; GANANINA, M.M.;
GILEROVICH, M.M.; DUEVSKIY, Ye.P.; YEVSTIGNEYEV, A.A.; IOKHVIN,
M.R.; KALMYKOV, P.M.; KRENGEL', I.Ts.; LOSEV, I.G.; MAYEVSKIY,
F.M.; MAZEL', S.I.; MIZHERITSKIY, G.S.; NOVIKOV, M.I.; NAZAR'YEV,
O.V.; PCHELKINA, I.A.; RAZUMOV, V.S.; ROZENBAYUM, I.M.; SEROV, B.F.;
SKRYPNIK, T.I.; SAL'VIN, Ye.S.; SMOTRINA, V.F.; TELEPNEVA, N.S.;
FIL'CHAKOV, N.I.; KHRAPUNOVA, Ye.L.; UNDEVICH, G.S.; UR'T'YEV, P.P.;
SHILOV, A.A.; SHLYKOV, A.P.; KIRILLOV, L.M., red.; MARKOCH, M.G.,
tekh.n.red.

[Regulations on the construction of municipal telephone network lines]
Pravila po stroitel'stvu lineinykh sooruzhenii gorodskikh telefonnykh
setei. 2.izd. Moskva, Sviaz'izdat, 1962. 511 p. (MIRA 15:5)

1. Russia (1923- U.S.S.R.) Ministerstvo svyazi. Glavnoye upravleniye
kapital'nogo stroitel'stva.
(Telephone lines)

IOKIMIS, K.D.

On the "mobile cecum". Khirurgia 36 no.4:85-91 Ap '60.
(MIRA 13:12)

(CECUM—ABNORMITIES AND DEFORMITIES)

IOKINA, T.A., BELOV, K.P., BOLSHOVA, K.M.

"The Study of Magnetization of Ferrites in the Region of the
Curie Point" (Moscow)

Conference on Physics of Magnetic Phenomena,
May 1956, Sverdlovsk, USSR

IOKSHIN, V.A., kand.tekhn.nauk; MOSEYEV, G.I., inzh.

Cooling of wall attached radiational superheaters at the start-up
of a boiler. Elek.sta. 32 no.6:7-12 Je '61. (MIRA 14:8)
(Superheaters--Cooling)

IOKTON, A.I., (st. Petropavlovsk)

First results of the introduction of diesel traction of the
Petropavlovsk section. Zhel.dor.transp. 37 no.7:23-27 J1 '56.
(MLRA 9:8)

1. Zamestitel' nachal'nika Petropavlovskogo otdeleniya Omskoy
dorogi.

(Diesel locomotives)

IOKTON, A.I., inzh. (Chelyabinsk)

Effectiveness of lengthened haul distances. Zhel.dor.
transp. 41 no.12:65-68 D '59. (MIRA 13:4)

1. Zamestitel' nachal'nika sluzhby dvizheniya Yuzhno-Ural'skoy
dorogi.
(Railroads--Traffic)

IOKTON, A.I. (g.Chelyabinsk)

Effectiveness of lengthened haul distances on the Southern Ural
Railroad. Zhel.-dor.transp. 43 no.9:55-58 S '61.

(MIRA 14:8)

1. Nachal'nik sluzhby dvizheniya Yuzhno-Ural'skoy dorogi.
(Ural Mountain region--Railroad--Management)

IOKTON, A.I. (Chelyabinsk)

Methods for determining the average train weight. Zhel.dor.transp.
46 no.6:64-65 Je '64. (MIRA 18:1)

1. Nachal'nik sluzhby dvizheniya Yuzhno-Ural'skoy dorogi.

IOKTON, A.I., inzh. (Chelyabinsk)

"Ways of reducing empty car mileage" by I.G.Kasovskii, S.T.Ratin.
Reviewed by A.I.Iokton. Zhel.dor.transp. 45 no.2:94-96 F '63.

(MIRA 16:2)

1. Nachal'nik sluzhby dvizheniya Yuzhno-Ural'skoy dorogi.
(Kasovskii, I.G.) (Railroads—Freight) (Ratin, S.T.)

IOKTON, A.I. (Chelyabinsk)

Technological routing of ore and metallurgical plant freight.
Zhel. dor. transp. 47 no.6:27-30 Je '65. (MIRA 18:6)

1. Nachal'nik sluzhby dvizheniya Tuzhno-Ural'skoy dorogi.

IOKTON, A.I. (Chelyabinsk); SUBBOTIN, S.A. (Chelyabinsk)

Accelerating the turnover of local cars. Zhel. dor. transp.
47 no. 11:27-30 N #65 (MIRA 19:1)

1. Nachal'nik sluzhby dvizheniya Yuzhno-Ural'skoy dorogi (for Iokton).
2. Zamestitel' nachal'nika sluzhby dvizheniya Yuzhno-Ural'skoy dorogi (for Subbotin).

IOKTON, B.I.; DVORZHETS, S.A.

We repair wheel pairs of diesel locomotives in the shop. Elek.1
tepl.tiaga no.10:34-35 0 '57. (MIRA 10:11)

1. Starshiy master kolesnogo tsekha Omskogo lokomotivnogo depo
(for Iokton). 2. Nachal'nik tekhnicheskogo otdela Omskogo
otdeleniya dorogi (for Dvorshets).

(Locomotives--Maintenance and repair)

FEDOROVSKAYA, M.F.; RYBAK, V.M.; BATALOVA, F.A.; GELENKOV, V.G.; IGONIN, B.M.;
POTEMKINA, O.N.; SHUVALOVA, A.M.

Results of the treatment of chronic colitis of infectious etiology
by means of siphon lavage of the intestine with hypotonic solution
of Tambukan mud. Sbor. nauch. rab. vrach san.-kur. uchr. profsoiuzov
no.1:136-139 '64. (MIRA 18:10)

1. Yessentukakiy sanatoriy "Kommunist" (glavnyy vrach M.I. Fonomenov).

NINOV, N.; IOLEVSKI, M.

Nomenclature for the genetic horizons of the soils of
Bulgaria. Izv Inst "Nikola Pushkarov" no.5:67-72 '62.

15-57-10-14529
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,
p. 191 (USSR)

AUTHOR: Iolin, A.M.

TITLE: Graphic Methods for Volumetric Computations in Canal
Work (Guide for Canal Construction and Students of Geology)
[Raschet ob'yemov kanavnykh rabot graficheskii-analiticheskim
metodom. (Metod posobiye dlya kollektorov i stud-geol.)]

PERIODICAL: Uch. zap. Kishinevsk. un-ta, 1957, Nr 25, pp 161-168

ABSTRACT: Bibliographic entry

Card 1/1

IOLIN, Mikhail Vladimirovich; SERGHEYEV, A.F., red.; MAL'KOVA, N.V.,
~~tekhn. red.~~

[Using industrial methods in constructing bridges on columnar foundations] Industrial'noe stroitel'stvo mosta na stolbchatykh fundamentakh. Moskva, Nauchno-tekhn. izd-vo M-va avtomobil'nogo transporta i shosseinykh dorog RSFSR, 1959. 59 p.

(MIRA 13:2)

(Bridges, Concrete)

IOELIN, M.V., inzh.; ZAPRUDNEV, A.S., inzh.

Dismountable stand for making reinforced concrete span structures.
Transp.stroi. 10 no.6:13-15 Je '60. (MIRA 13:7)
(Reinforced concrete construction)
(Bridges, Concrete)

IOLIN, M.V.

Building reinforced concrete spans of road bridges. Transp. stroi.
11 no.4:15-18 Ap '61. (MIRA 14:5)
(Bridges, Concrete)

IOLIN, M.V.; ALEKSEYEV, V.V.; VAKSMAN, Sh.A.; YEGOROV, B.F.;
STEPASHKIN, N.I.

[Building an automobile bridge using precast reinforced
concrete structural elements] Stroitel'stvo avtodorozhnogo
mosta iz sbornykh zhelezobetonnykh konstruksii. Moskva,
G: gtransstroi, 1963. 24 p. (MIRA 17:7)

VELDRE, V.; IOLIN, Ye.; KAROLE, E.

Convergence of the method of integral equations. Vestis Latv ak no, 9:
71-73 '61.

1. Akademiya nauk Latvyskoy SSR, Institut fiziki.

VELDRE, V.; IOLIN, Ye.; KARULE, E.

Ionization of hydrogen atom near the threshold. Vestis
Latv ak no.6:67-71 '62.

1. Institut fiziki AN Latvyskoy SSR.

S/056/62/042/003/028/049
B102/B138

AUTHORS: Damburg, R. Ya., Iolin, Ye. M.

TITLE: Calculation of the diamagnetic susceptibility of helium

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,
no. 3, 1962, 820

TEXT: Bethe and Salpeter have pointed out that the value of r^2 for one electron in the He ground state, calculated by the Hartree function, is smaller than the value obtained from recent experiments. It is now shown that this discrepancy cannot be attributed to an inaccurate representation of the wave function. Numerical calculations were carried out with a BESM-2 (BESM-2) computer for the more exact wave function given by Kinoshita. The result was the same as obtained with the Hartree function and it is concluded that the experimental value should be verified. There are 4 non-Soviet references. The two references to English-language publications read as follows: T. Kinoshita. Phys. Rev. 105, 1490, 1957; 115, 366, 1959. J. H. Bartlett. Phys. Rev. 98, 1067, 1955.

Card 1/2

30

Calculation of the diamagnetic ...

S/056/62/042/003/028/049
B102/B138

ASSOCIATION: Institut fiziki Akademii nauk Latviyskoy SSR (Institute
of Physics of the Academy of Sciences, Latviyskaya SSR)

SUBMITTED: September 15, 1961

Card 2/2

B/161/63/005/004/037/047
B102/1186AUTHOR: Iolin, Ye. M.

TITLE: Effect of anharmonism on the temperature shift in the M6ssbauer effect

PERIODICAL: Fizika tverdogo tela, v. 5, no. 4, 1963, 1194 - 1198

TEXT: The temperature shift $D = p^2/2m^2c^2$ of the γ -line frequency in recoil-free resonance scattering of γ -quanta may be derived with respect to temperature according to the virial theorem in harmonic approximation:

$dD/dT = C_v/2mc^2$ in the case of an ideal crystal. This law is violated in the case of anharmonic vibrations. In the present paper the effects of anharmonism of third and fourth orders on this law is analyzed. p denotes the momentum of the M6ssbauer nucleus, m its mass, C_v the lattice specific heat. Estimates of the effect are given for the limiting cases of high temperatures for a three-dimensional crystal, and of low temperatures for (a) a linear chain with interaction between the nearest neighbors and (b) a three-dimensional crystal. In both cases the effects of the limiting

Card 1/2

Effect of anharmonism on the...

S/181/83/009/004/037/047
B102/B186

transitions $T \leftarrow 0$ on the spectra are studied.

ASSOCIATION: Institut fiziki AN Latv. SSR Riga (Institute of Physics
AS LatSSR, Riga)

SUBMITTED: December 7, 1962

Card 2/2

SECRET

1. The following information was obtained from a source who has provided reliable information in the past:

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level, low concentration impurities in crystals. The appearance of changes in the crystal Raman spectrum at a point near the resonant frequency of the impurity is the signature of the point defect. The Raman spectrum of a crystal with a few lattice defects is shown in Figure 1. The Raman spectrum is based on the Raman effect which is a scattering process in which the incident light is scattered by the crystal lattice. The results are

... of the ...
... of the ...

A detailed discussion of this
... of the ...

and related problems with α and β functions.
article has: 2 figures and 8 formulas

Journal of the USSR (Institute of Physics, Moscow)

Volume 10, No. 1, 1977

1977

IOLIN, Ye.M.

Effect of a two-level impurity system on the phonon spectrum of a crystal and the one-quantum inelastic scattering of neutrons. Fiz. tver. tela 7 no.5:1490-1494 My '65. (MIRA 18:5)

1. Institut fiziki AN Latvyskoy SSR, Riga.

L 00764-66 ET(1)/T IJP(c) GG

ACCESSION NR: AP5012563

UR/0131/65/007/005/1490/1494

AUTHOR: Iolin, Ye. M. 44.55

TITLE: Effect of two-level impurity system on the phonon spectrum of a crystal and single-quantum inelastic scattering of neutrons 317 21 44.55

SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1490-1494

TOPIC TAGS: crystal impurity, impurity level, phonon spectrum, phonon scattering, neutron scattering, line broadening

ABSTRACT: The Feynman-diagram method is used to determine at a temperature $T = 0$ the influence of two-level impurities such as paramagnetic ions on the phonon spectrum of a crystal, and the nuclear single-phonon coherent scattering of the neutrons. The simplest interaction, which is linear in the phonon operators and bilinear in the fermion operators, is used in a model Hamiltonian, in which only the terms that cause resonant scattering of the phonons are retained. It is shown that two-level defects of low concentration can noticeably change the shape of the line of the nuclear single-phonon coherent neutron scattering. The neutrons may become scattered with excitation of bound spin-phonon states, leading to two peaks in the scattered-neutron line. The interaction (exchange or dipole-dipole) between impurities can broaden the resonant level, thus reducing the cross section for the

Card 1/2

L 00764-66

ACCESSION NR: AP5012563

resonant scattering of the phonons. During the time of collision, the interaction between two-level impurities can cause an exchange of energy between the particular defect and the remaining defects. "The author thanks M. A. Krivoglaz for a discussion of the work." Orig. art. has: 2 figures and 9 formulas. 6

ASSOCIATION: Institut fiziki AN LatvSSR, Riga (Institute of Physics AN LatvSSR) 44

SUBMITTED: 04May64

ENCL: 00

SUB CODE: SS, SP

NR REF SOV: 001

OTHER: 004

9/10
Card 2/2

L 07901-57 EWT(d)/EWT(L) IJP(c) AT/WW
ACC NR: AP6033667 SOURCE CODE: UR/0371/66/000/004/0022/0024

AUTHOR: Iolin, Ye. M. --Iolins, E.

36

ORG: Institute of Physics, AN LatSSR (Institut fiziki AN Latv. SSR)

TITLE: Long-lived interaction between paramagnetic ions induced by phonons

SOURCE: AN LatSSR. Izvestiya. Seriya fizicheskikh i tekhnicheskikh nauk, no. 4, 1966, 22-24

TOPIC TAGS: ion interaction, paramagnetic ion, phonon spectrum, phonon exchange, resonance line, correlation function, anisotropy, paramagnetic resonance

ABSTRACT: Using the Lee model at absolute zero temperature an exact solution of the problem has been found for the case of two-spin correlation function by phonon exchange. The exchange has been found to widen and shift the paramagnetic resonance line. The role of anisotropy in the phonon spectrum has been discussed. Orig. art. has: 4 formulas. [Based on author's abstract]

SUB CODE: 20/ SUBM DATE: 22Jun65/ ORIG REF: 004/ OTH REF: 002/

Card 1/1 inc

IOLKIN, I. I.

The science of the epidemic process. J. hyg. epidem., Praha 5 no.1:
22-27 '61.

1. Medical Institute of I. M. Setchenov, Faculty of Epidemiology,
Moscow.

(EPIDEMIOLOGY)

YOLYINA, T. A., DALOV, A. I. and POLISHOVA, R. M. (Moscow)

"The Study of Magnetization of Ferrites in the Region of the Curie Point,"
paper presented at the International Conference on Physics of Magnetic Phenomena,
Sverdlovsk, USSR, 23-31 May 1956.

SOV/136-59-3-5/21

AUTHOR: Iolko, M.V.

TITLE: Influence of Some Factors on the Operating Indices of Converters for Bessemerizing Copper and Copper-nickel Mattes (Vliyaniye nekotorykh faktorov na pokazateli raboty konverterov dlya bessemerovaniya mednykh i medno-nikelevykh shteynov)

PERIODICAL: Tsvetnyye Metally, 1959, Nr 3, pp 19 - 22 (USSR)

ABSTRACT: The author considers the main factors influencing the productivity and economics of the converter process in the light of some recommendations made in recent articles. He discusses first the article by L.M. Shalygin in Tsvetnyye Metally, 1955, Nr 5. He discounts the proposals of that author that blast pressure and slag temperature should be increased, considering 0.7-0.8 atm and 1 150 °C sufficient. The author recalls his own recommendations in favour of a converter with a 1.8 x 1.8 m top and on the general dimensions of the converter (published in the Byulleten Soyuznikel'olovoprojekta", 1936, Nr 6). He considers that the maximal quantity of working tuyeres should

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SOV/136-59-3-5/21

Influence of Some Factors on the Operating Indices of Converters for Bessemerizing Copper and Copper-nickel Mattes

be provided and the throat made as large as possible. On the basis of the work at the Gintsvetmet in 1932-1934 and the experiments of P.S. Kusakin and N.P. Diyeu (1950-1951) the author recommends the use of oxygen-enriched air. An oxygen plant has been completed at the Balkhashskiy medelplavil'nyy zavod (Balkhash Copper-smelting Works) and tests of this technique will shortly be carried out.

Card 2/2

IOLKO, M.V.

Concerning L.M.Shalygin and V.B.Meierovich's article "Ways of
accelerating the operation of nonferrous metal converters."
TSvet.met. 35 no.8:88-90 Ag '62. (MIRA 15:8)
(Nonferrous metals—Metallurgy) (Converters)
(Shalygin, L.M.) (Meierovich, V.B.)

IOLLES, Ya. I.

Barometric leveling by the method of synchronized observations
along a route. Prikl. geofiz. no.28:177-203 '60. (MIRA 14:3)
(Barometric hypsometry)

IOLLOS, D. S.; GRIDENOK, M. M.

Results of malaria control in Beltsy and the Beltsy District
of Moldavian S.S.R. Med. paraz. i paraz. bol. no.6:651-653
'61. (MIRA 15:6)

1. Iz Bel'tskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.

(BEL'TSY--MALARIA--PREVENTION)

AMIRDZHANOV, G.N., ekonom. ; IOINESYAN, Z.A., ekonom. ; SAFONOV, N.I.,
red.; LUKOMNIK, G.I., tekhn. red.

[Reference book and rate list for basic building, industrial and
accessory materials for technical and industrial purposes;
instruments and automotive spare parts in 1950 prices; for the
purposes of the lowering of prices as of July, 1950] Spravochnik-
tsennik na osnovnye stroitel'nye, tekhnicheskie i vspomogatel'nye
materialy proizvodstvenno-tekhnicheskogo naznacheniia, instrumenty
i avtozapchasti v tsenakh 1950 goda; s uchetom snizheniia tsen s
1 iulia 1950 goda. Baku, Izd. "Bakorspravki." Vol.2. Pt.1.
1950. 621 p. (MIRA 14:9)

(Building materials--Prices)

Euler, L. L.

USSR/Scientists-Euler

Card : 1/1

Authors : Zagorskiy, F. N., Cand. in Tech. Sciences and Iolob, G.L., Engineer

Title : Academician, L.P. Euler, the founder of the theory of evolvent gear meshing

Periodical : Vest. Mash. 34/5, 90 - 91, May 1954

Abstract : The article attributes the formulation of the theory of evolvent meshing of gears to Euler, gives biographical information and illustrates some of Euler's ideas with drawings. One Russian reference and two in Latin.

Institution :

Submitted :

Iolokolov, K. V.

AUTHOR: Iolokolov, K. V. 123 - 1 - 123

TITLE: Theory of Caterpillar Drive. Guiding Sprocket.
(Teoriya gusenichnogo privoda. Napravlyayushchaya zvezdochka).

PERIODICAL: Nauch. tr. Novocherkas. politekhn. in-t, 1955, 30,
63-82. (USSR)

ABSTRACT: The slip of chain from the guiding sprocket is analyzed. The relative positions of chain links and sprocket are shown in several diagrams. The moments of slip are analyzed in the initial and final positions of the roller. Each relative position is graphically recorded in geometrical values in the form of equations. In the solution of these equations the correlations of the links length, the peripheral speed of the sprocket and, the dependance of cranks on the parameters of the leading and guiding sprockets were obtained. It was determined that the cycle of slipping-off the chain from the guiding sprocket must begin before the running-on cycle in the leading sprocket. The analysis of changes in speed

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123 - 1 - 123

of a guiding sprocket is shown in graphs and numerous tables. The process of a running-off chain is theoretically analyzed, and graphically represented; the analytical dependencies and computation tables of dimensions are given. Requirements for the design of drives with one and two pull chains are given. It is also indicated that the length of driving chains, should consist of an even number of links with an even number of teeth in the sprocket. Thirty drawings and 4 bibliographical references are given. (The beginning of the discussion - see Trudy Novochoerkasskogo politekhnicheskogo instituta, 1948,XX).

Sh. A. S.

Ref. Zh., Mashinostroyeniye, Nr.1, 1957, Item 123,

ASSOCIATION: Polytechnical Institute in Novochoerkassk (Novochoerkas. politekhn in-t)

PRESENTED BY:

SUBMITTED:

AVAILABLE:

Card 2/2

IVANGV, Minko; MUDROV, Khristo; IOLOV, Iolo

Study of tissue biopreparations. Selskostop nauka 1 no.6:
665-671 '62.

ZELICHEK, G.G., kandidat tekhnicheskikh nauk; IOLOVICH, D.S., inzhener, nauchnyy redaktor; UDOD, V.YA., redaktor izdatel'stva; TOKER, A.M., tekhnicheskiy redaktor.

[Assembling and operating hoisting and conveying machinery in the construction industry] Montash i ekspluatatsia pod'emo-transportnykh mashin predpriatii stroitel'noi industrii. Izd.2-oe, perer.i dop. Moskva, Gos.izd-vo lit-ry po stroit.i arkhit., 1957. 284 p.

(MIRA 10:11)

(Hoisting machinery)

(Conveying machinery)

GONDEL', Emanuel Matveyevich, kand. tekhn.nauk,; IOLOVICH, D.S., inzh.,
nauchnyy redaktor,; SKVORTSOVA, I.P., red. izd-va,; BL'KINA,
E.M., tekhn. red.

[Reconditioning and erecting of structures by means of lifting]
Vosstanovlenie i vosvedenie sooruzhenii sposobom pod'ema. Moskva,
Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam,
1958. 279 p. (MIRA 11:12)

(Building)

Iosif Salomonovich Iolevich, d. 1964 ; an obituary. Zhur. nevr. i
psikh. 65 no.1:157 '65. (MIRA 18:2)

GOL'DOVS'KAYA, T.I.; IOLOVICH, I.S. (Moskva)

1965

Development of dispensary psychoneurological aid in the Russian Federation. Zhur.nevr.i psikh. 60 no.9:1085-1088 '60.

(MIRA 14:1)

(PSYCHIATRIC CLINICS)

BANSHCHIKOV, V.M. (Moskva); IOLOVICH, I.S. (Moskva)

Alcoholism and the organization of treatment for alcoholic diseases.
Probl.sud.psikh. 9:361-369 '61. (MIRA 15:2)
(ALCOHOLISM--TREATMENT)

S/170/62/005/002/001/009
B104/B138AUTHORS: Tsekhanskaya, Yu. V., Iomtev, M. B.

TITLE: Method of measuring the diffusion coefficients of solid substances in compressed gases

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 5, no. 2, 1962, 24 - 29

TEXT: In the method described here, the rate of diffusion of a solid in a gas is determined from its loss of weight, and no analyses are carried out. The diffusion chamber is made of stainless steel (Fig. 1) and consists of a vessel, a screw, and a valve. The cylindrical channel is 10.0 ± 0.1 mm in diameter and 71.0 ± 0.1 mm in length. The channel is filled with round rods (10) made of calibrated iron wire and 0.5 and 0.8 mm in diameter. A tablet (9) of solid, pressed analytical purity diphenyl amine (m. p. 50°C) is placed at the bottom of the channel. A gaseous solution saturated with diphenyl amide is formed on the surface of the tablet by introducing carbon dioxide through the valve. The diphenyl amide diffuses into the capillaries between the rods. Prior to the experiment, the tablet was ground to fit the steel socket. The diffusion chamber with

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Method of measuring the ...

S/170/62/005/002/001/009
B104/B138

the socket and tablet inside was evacuated at room temperature and put into a thermostat. After the desired temperature had been reached, the required pressure was created in the chamber with a hydraulic press. The diffusion coefficient of the diphenyl amine was calculated from an equation derived from Fick's second equation by integration. It was assumed to be independent of the composition (Jost W., Diffusion in Solids, Liquids and Gases. New York, 1952). The experiments were made at 32.3°C and at pressures varying from 130.5 to 77.0 at, and took 5 min to 50 hrs. In the pressure range under consideration, the diffusion coefficient varied almost linearly from $0.6 \cdot 10^{-4} \text{ cm}^2 \cdot \text{sec}^{-1}$ to $1.9 \cdot 10^{-4} \text{ cm}^2 \cdot \text{sec}^{-1}$. The error was 5 - 10%. I. R. Krichevskiy is thanked for advice and interest. There are 3 figures, 1 table, and 22 references: 10 Soviet and 12 non-Soviet. The four most recent references to English-language publications read as follows: Guildner L., Proc. Nat. Akad. Sci. USA, 44, 1149, 1958; Robb W. L., Drickamer H. G., J. Chem. Phys., 19, 1504, 1951; Jeffries Q. R., Drickamer H. G., J. Chem. Phys., 22, 486, 1954; Michels A., Botzen A., Physica, 23, 95, 1957.

Card 2/3

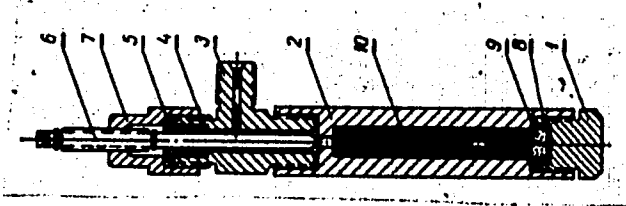
Method of measuring the ...

S/170/62/005/002/001/009
B104/B138

ASSOCIATION: Gosudarstvennyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza, g. Moskva (State Institute of the Nitrogen Industry and Products of Organic Synthesis, Moscow)

SUBMITTED: May 19, 1961

Fig. 1. Diffusion chamber. Legend: (1) screw; (2) vessel; (3) three-way cock; (4) packing; (5) bottom box; (6) spindle; (7) screw; (8) steel socket for tablet; (9) tablet; (10) iron rods.



Card 3/3

TSEKHANSKAYA, Yu.V.; IOMTEV, M.B.; MUSHKINA, Ye.V. (Moscow)

Solubility of diphenylamine and naphthalene in carbon dioxide
under pressure. Zhur.fiz.khim. 36 no.10:2187-2193 0 '62.

(MIRA 17:4)

1. Gosudarstvennyy institut azotnoy promyshlennosti, Moskva.

IOMTEV, M.B.; TSEKHANSKAYA, Yu.V. (Moscow)

Diffusion of naphthalene in compressed ethylene and carbon dioxide. Zhur. fiz. khim. 38 no.4:896-900 Ap '64.

(MIRA 17:6)

1. Gosudarstvennyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza.

TSEKHANSKAYA, Yu.V.; IOMTEV, M.B.; MUSHKINA, Ye.V.

Solubility of naphthalene in ethylene and carbon dioxide under pressure. Zhur. fiz. khim. 38 no.9:2166-2171 S '64.

(MIRA 17:12)

1. Institut azotnoy promyshlennosti i produktov organicheskogo sinteza, Moskva.

KALAYDZHIVYEV, V. [Kalaidzhiev, V. Kh.]; ^I IOMTOV, M. [Iomtov, M.I.];
STOYANOVA, N. [Stoianova, N.]

A comparative analysis of the antigens of the S. typhi (TY-2) strain, and the vaccines obtained from it by precipitation in agar. Trudy epidemial mikrobiol 8:17-20 '61 [publ. '62].

1. Otvetstvennyi redaktor, "Trudy Nauchno-issledovatel'skogo instituta epidemiologii i mikrobiologii" (for Kalaidzhiev).
2. Chlen Redaktsionnoy kollegii, "Trudy Nauchno-issledovatel'skogo instituta epidemiologii i mikrobiologii" (for Iomtov).

*

BUCHVAROV, R.; VENKOV, L.; IOMTOV, M.; NIKOLOV, T.

Changes in nucleic acids and ribonuclease activity of guinea pig spleen shortly after immunization. Izv biokhim BAN 2:71-76 '64.

1. Chair of Biochemistry at the Higher Medical Institute, Sofia, and Laboratory of Biochemistry at the Scientific Research Institute for Epidemiology and Microbiology, Sofia.

VRANCHEVA, S.; DENCHEV, V.; YOMTOV, M. [Iamtov, M.]

Experimental active immunization by the perfringens-~~cedematiens-~~
tetanus toxin. Trudy epidemiol mikrobiol 8:91-96 '61
[publ.'62].

*

S/166/62/000/004/00A/010
B112/B186

10.1230,

AUTHOR: Iomudov, Sh.

TITLE: An integration method for the equation of the fuselage in the vortex interpretation of the theory of functions of a complex variable

PERIODICAL: Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 4, 1962, 33 - 37

TEXT: This is a note to I. S. Arzhanykh's theory of functions of a complex variable, in which each analytical function $f(\xi) = \varphi + i\psi$ is associated with a three-dimensional vortex flow of an ideal incompressible fluid (DAN SSSR, 1950, v. 73, no. 4). The surface of this flow is determined by the wing $\psi = a = \text{const.}$, and by the fuselage $z = \psi(x,y)$ which satisfies the equation

$$\frac{D}{D(x,y)} \left[\frac{D(\psi, \psi)}{D(x,y)}, \psi \right] = 0.$$

Arzhanykh derived a very complicated fourth-order partial differential equation for the function ψ . In the present paper, a third-order quasi-

Card 1/2

VB

An integration method for the...

S/166/62/000/004/004/010
B112/B186

linear equation for an auxiliary function Ω is set up. For the fuselage
 $z = V(x,y)$ the formula

$$z = x - 2buf \quad (13)$$

is finally derived.

ASSOCIATION: Institut matematiki im. V. I. Romanovskogo AN UzSSR
(Institute of Mathematics imeni V. I. Romanovskiy AS UzSSR)

SUBMITTED: November 13, 1961

Card 2/2

IOMUDOV, Sh.

Use of conformal mappings for evolving the lines of a stream of
turbulent flows in the theory of functions of a complex variable.
Izv.AN Turk.SSR.Ser.fiz.-tekh., khim.i geol.nauk no.1:10-15 '62.
(MIRA 16:12)

1. Tashkentский gosudarstvennyy universitet imeni V.I.Lenina.

IOMUDSKAYA, D.G.

Some historical premises about the possible ways for the introduction
of trachoma into Turkmenistan. Trudy Turk.nauch.-issl.trakh.inst.
6:61-78 '60. (MIRA 15:11)

(TURKMENISTAN—CONJUNCTIVITIS, GRANULAR)

ICMUDSKIY, K.

Analysis of hydrogeological conditions in southwestern Turkmenia and prospects for the improvement of the water supply. Izv. AN Turk.SSR.Ser.fiz.-tekh., khim. i geol.nauk no.5:71-80 '65.

(MIRA 18:11)

1. Institut geologii Gosudarstvennogo geologicheskogo komiteta SSSR. Submitted June 1, 1965.

IOMUDSKIY, K.

Cost of drinking water in Turkmenistan. Izv. AN Turk. SSR.
Ser. fiz.-tekh. khim. i geol. nauk no.3:106-110 '65.
(MIRA 18:12)

1. Institut geologii Gosudarstvennogo geologicheskogo komiteta
SSSR. Submitted March 27, 1965.

REEL #

186

END

IMAS, R.L.

DOMUDSKIY, K