

ABRAMOV, A.A.; TAYTS, A.A., kandidat tekhnicheskikh nauk.

Device for testing the economical operation of weaving looms. Pron.  
energ. 10 no.5: (19 My '53). (MLRA 6:5)  
(Looms)

SUSLIN, V.Ya.; VLASOV, I.A.; TSYMBALOV, K.F.; TAYTS, A.A., kandidat tekhnicheskikh nauk.

Device for distributing canning jars in annealing ovens. Prom.energ. 10  
no.5:10-11 My '53. (MLRA 6:5)  
(Glassware)

LIVSHITS, D.S., inshener; TAYTS, A.A., kandidat tekhnicheskikh nauk; NAYFEL'D, M.R., inshener [reviewers].

Book on the electric power supply of industrial enterprises. Reviewed by D.S.Livshits, A.A.Taits, M.R.Naifel'd. Elektrichestvo no.10:82-85 0 '53. (MIRA 6:10)

1. Tyashpromoelektrproyekt (for Livshits).
2. TSentroenergochermet (for Tayts).  
(Electric power distribution)
3. TSentroelektromontash (for Nayfel'd).

*TAYTS, A.A.*

TAYTS, A.A.; kandidat tekhnicheskikh nauk, redaktor; ANTRUSHIN, B.D.,  
redaktor; POPOVA, S.M., tekhnicheskiy redaktor

[Electric power economy in industrial enterprises] *Ekonomiia elektro-  
energii na promyshlennykh predpriatiakh.* Pod red. A.A.Taits. Moskva,  
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 269 p.  
(MIRA 8:4)

1. Dom inzhenera i tekhnika imeni F.E.Dzerzhinskogo, Moscow.  
(Electric power)

TAYTS, A.A.

AID P - 707

Subject : USSR/Electricity  
Card 1/1 Pub. 29 - 18/18  
Author : Tayts, A. A.  
Title : Scientific and Technical Conference on Problems of  
Economy of Electric Power in Industry  
Periodical : Energetik, 8, 39-40, Ag 1954  
Abstract : The Conference took place in Moscow on October 19-22, 1953.  
A brief report of the Conference follows.  
Institution : Moscow Scientific and Technical Society of Electrical  
Engineers (MONITOE)  
Submitted : No date

TAYTS, A.A., kandidat tekhnicheskikh nauk.

Scientific and industrial conference on new technical developments and the outlook for their application in power supply and industrial electrical equipment. Prom. energ. 11 no.11:33-35 N '56. (MLRA 9:12)

(Electric machinery industry)

TAYTS, A.

DANILENKO, A.; CHUMAKOV, N.; SERBINOVSKIY, G.; GRACHEV, V.; KHRAMUSHIN, A.;  
SOKOLOV, B.; BOL'SHAM, Ya.; TAYTS, A.; NEYFEL'D, M.; FRENKEL', S.;  
LYUMIRSKIY, I.; NEBESNYI, A.; VESHENEVSKIY, S.; YERMILOV, A.;  
BROZGOL', M.; SOLOV'YEV, P.; KLYUYEV, S.; ROZENTAL', A.; SMIRNOV, V.;  
DOROFYUK, A.

Solomon Mikhailovich Livshits; obituary. Prom energ. 11 no.12:34  
D '56. (MIRA 10:1)

(Livshits, Solomon Mikhailovich, 1901-1956)

**TAYTS, A.A.** kandidat tekhnicheskikh nauk, redaktor; MEDVEDEV, L.Ya.,  
tekhnicheskiy redaktor

[New methods of electric power distribution in industrial enterprises;  
a collection of articles] *Novaya tekhnika v elektroobzheeni prom-  
yshlennykh predpriatii; sbornik statei.* Moskva, Gos.energ. izd-vo,  
1957. 319 p. (MIRA 10:10)

1. Moskovskiy dom nauchno-tekhnicheskoy propagandy imeni F.E. Dzerzhinskogo. 2. Rukovoditel' elektrotekhnicheskoy komissii Moskovskogo doma nauchno-tekhnicheskoy propagandy imeni F.E. Dzerzhinskogo (for Tayts)  
(Electric power distribution)



ЛЕБЕДЕВ, Михаил Васильевич [deceased]; ~~ТАЙТС, А.А.~~ редактор; АКАТОВА,  
В.Г., редактор издатel'stva; КОНЫАШИНА, А.Д., технический  
редактор

[Technical operation of city electric networks] Tekhnicheskaya  
ekspluatatsiya gorodskikh elektricheskikh setei. Moskva, Izd-vo  
M-va kommun. khoziaistva RSFSR, 1957. 393 p. (MLRA 10:8)  
(Electric power distribution)

TAYTS, A.A.

AUTHOR Tayts, A.A., Candidate of Technical Sciences 105-9-32/32

TITLE Book Review: B.A. Teleshev "Electrical Engineering" (Bibliografiya: B.A. Teleshev "Electrotehnika".)

PERIODICAL Elektrichestvo, 1957, Nr 9, pp. 92-94 (USSR)

ABSTRACT This book was published by Gosenergoizdat, has 496 pages and its price is Roubles 17.25. Admitted as textbook for Polytechnical and Machine Construction High Schools. The book is based upon the lectures delivered by the author and is excellent in its methodical way of representation. Besides basic rules also computations of complicated branched current circuits are given. A wide space is given to working material which is used for pre-heating devices. The properties of dielectrics and the classification of electrical insulation are described. The theory of the alternating currents is given without application of the symbolic method. Working characteristics of the motors are dealt with thoroughly. Heating of the electrical machines is not sufficiently dealt with. All problems connected with synchronous machines are well dealt with. All electron- and ion devices at present in use, are described.

ASSOCIATION Moscow Branch of the Technical-Scientific Association of Power Engineering Industry, (MONTSEP = Moskovskoye otdeleniye nauchno-technicheskogo obshchestva energeticheskoy promyshlennosti.)

AVAILABLE Library of Congress

Card 1/1

TAYTS, A.A., ks.nd.tekhn.nauk.

Conference on designs for low-voltage equipment. Elektrichestvo  
no.11:93-94 N '57. (MIRA 10:10)

1.Moskovskoye nauchno-tekhnicheskoye obshchestvo energeticheskoy  
promyshlennosti.  
(Moscow--Electric apparatus and appliances--Congresses)

TAYTS, A.A.

BELOV, N.N.; BOL'SHAM, Ya.M.; GORDEYEV, A.N.; GRACHV, V.A.; YERMILOV, A.A.;  
ZAIMSSKIY, A.M.; KIZEVETTER, Ye.N.; KNORRING, G.M.; KONSTANTINOV,  
B.A.; KOPYTOV, N.V.; LEVIT, G.O.; MILLER, G.P.; MAYFEL'D, M.P.;  
PRINTSEV, A.A.; SERBINOVSKIY, G.V.; SOKOLOV, B.A.; STASILOYTS, A.B.;  
TAYTS, A.A.; KHRAMUSHIN, A.M.

Mikhail Konstantinovich Kharchev; obituary. Belov and others. Prom.  
energ. 12 no.12:33 D '57. (MIRA 10:12)  
(Kharchev, Mikhail Konstantinovich, 1896-1957)

YERMILOV, Aleksey Alekseyevich; TAYTS, A.A., red.; SUKHAROVA, R.A., tekhn.red.

[New and efficient methods in supplying electric power to various enterprises] Novye i ratsional'nye reshenia v elektrosnabzhenii predpriatii. Moskva, 1958. 40 p. (Peredovoi opyt proizvodstva. Seriya "Promyshlennaia energetika," no.2) (MIRA 12:4)  
(Electric power distribution)

LEBEDEV, Mikhail Vasil'yevich [deceased], insh.; TAYTS, Aleksandr  
Arkad'yevich, kand. tekhn. nauk; SHNEVEROV, S.A., red. izd-va;  
KONYASHINA, A.D., tekhn. red.

[Municipal electrical systems] Gorodskie elektricheskie seti.  
Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1958. 369 p. (MIRA 11:9)  
(Electric power distribution)

SVERDEL', Iosif Semenovich; KRASNYANSKIY, Yeleazar Abovich; TAYTS,  
A.A., red.; KISELEVA, T.I., red.izd-va; DOBUZHINSKAYA, L.V.,  
iskim:red.

[Electric power consumption in iron ore dressing plants]  
Elektroispol'zovanie na obogatitel'nykh fabrikakh zhelezorudnoi  
promyshleanosti. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po  
chernoi i tsvetnoi metallurgii, 1959. 148 p. (MIRA 12:8)  
(Ore dressing--Equipment and supplies)  
(Electricity in mining)

LAZAREV, B.M., inzh.; TAYTS, A.A., kand.tekhn.nauk; KISELEVA, T.I.,  
red.isd-va; ATTOPOVICH, M.K., tekhn.red.

[Introducing simplified starting and protection systems for  
high voltage synchronous motors] Vnedrenie uproshchennykh skhem  
puska i zashchity vysokovol'tnykh sinkhronnykh dvigatelei.  
Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po cherno i tsvetnoi  
metallurgii, 1959. 131 p. (MIRA 12:7)

1. TSENTRONNERGOCHERMET, trust, Moscow.  
(Electric motors, Synchronous)



KHOMYAKOV, Mikhail Vasil'yevich; STARIKOV, Yevgeniy Sergeyevich;  
TAYTS, A.A., red.; YATSENKO, G.G., otv. za vypusk; SUKHAREVA,  
R.A., tekhn.red.

[Concerning the operation of electric substations and networks  
at industrial enterprises] Voprosy ekspluatatsii setei i pod-  
stantsii promyshlennykh predpriyatii. Moskva, 1959. 59 p.  
(Moskovskii dom nauchno-tekhnicheskoi propagandy. Peredovoi  
opyt proizvodstva. Seriya: Elektroenergetika, vyp. 6).  
(MIRA 14:1)

(Electric substations)  
(Electric power distribution)

KAZANOVICH, Grigori; Yakovlevich; TAYTS, A.A., red.; YATSENKO, G.G.,  
otv. za vypusk; SUKHAREVA, R.A., tekhn.red.

[New high-voltage blocks of electrical equipment] Novoe vysoko-  
vol'tnoe komplektnoe elektrooborudovanie. Moskva, 1959. (Moskovskii  
Dom nauchno-tekhnicheskoi propagandy. Peredovoi opyt proizvodstva.  
Seria: Elektroenergetika, no.7).

(MIRA 14:1)

(Electric power plants--Equipment and supplies)  
(Electric power distribution)

BULGAKOV, Aleksey Alekseyevich; SOKOLOV, Mikhail Mikhaylovich;  
SHINYANSKIY, Aleksandr Viktorovich; TAYTS, A.A., red.; YATSENKO,  
G.G., otv. za vypusk; SUKHAREVA, R.A., tekhn.red.

[Automated electric drive] Avtomatizirovannyi elektroprivod.  
Moskva, 1959. 69 p. (Moskovskii dom nauchno-tekhnicheskoi pro-  
pagandy. Peredovoi opyt proizvodstva. Seriya: Elektroenergetika,  
no.3). (MIRA 13:10)

(Electric driving) (Automatic control)

TAYTS, A.A., kand.tekhn.nauk, red.; LARIONOV, G.Ye., tekhn.red.

[Present-day state and prospects for developing new designs of low-voltage apparatus; based on materials from a conference on science and technology] Sostoianie i perspektivy razvitiia konstruktssii nizkovol'tnykh apparatov; po materialam nauchno-tekhnicheskogo soveshchaniia. Moskva, Gos.energ.izd-vo, 1959. 287 p. (MIRA 13:6)

1. Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti. Moskovskoye pravleniye. 2. Predsedatel' seksii Promyshlennoy elektrotekhniki Moskovskogo pravleniya Nauchno-tekhnicheskogo obshchestva energeticheskoy promyshlennosti (for Tayts).

(Electric apparatus and appliances)

INDENBAUM, Venianin Solomonovich, inzh.; LEBNDEV, Mikhail Vasil'yevich,  
inzh. [deceased]; LIBERMAN, Grigoriy Romanovich, inzh.; OL'-  
SHANSKIY, Ya.A., inzh., red.; POPOV, K.S., inzh., red.; TAYTS,  
A.A., inzh., red.; SHNEYKROV, S.A., red.isd-va; BARANOV, M.V.,  
tekhn.red.

[Operation of small steam turbine electric power plants]  
Eksploatatsiia paroturbinnnykh elektrostantsii maloi moshchnosti.  
Pod obshchei red. G.R.Libermans. Moskva, Izd-vo M-va kommun.  
khoz.RSFSR, 1959. 483 p. (MIRA 13:5)  
(Electric power plants)

TAYTS, Aleksandr Arkad'yevich; kand.tekhn.nauk; MESHEL', Boris Solomonovich,  
inzh.; KIRBYEV, M.I., red.; LARIONOV, G.Ye., tekhn.red.

[Regulation of voltage and reactive power in electric networks of  
industrial enterprises] Regulirovanie napriazhenia i reaktivnoi  
moshchnosti v elektricheskikh setiakh promyshlennykh predpriatii.  
Moskva, Gos.energ.isd-vo, 1960. 223 p. (MIRA 13:12)  
(Voltage regulators) (Electric power distribution)

TIMOSHENKO, Valentin Vasil'yevich; TAYTS, A.A., red.; MIKHAYLOVA,  
Ye.P., red. izd-va; MIKHAYLOVA, V.V., tekhn. red.

[Economy of electric power in electrometallurgical enter-  
prises]Ekonomiia elektroenergii na elektrometallurgiche-  
skikh predpriatiakh. Moskva, Metallurgizdat, 1962. 189 p.  
(MIRA 15:11)

(Electrometallurgy) (Electric power)

KALINKIN, Vladimir Sergeyevich; FEYLER, Georgiy Oskarovich; TAYTS,  
A.A., red.; VAGIN, A.A., red. izd-va; ISLENT'YEVA, P.G.,  
tekhn. red.

[Electromagnets for electric cranes] Pod"emnye elektromagnity.  
Moskva, Metallurgizdat, 1962. 87 p. (MIRA 16:2)  
(Electric cranes) (Electromagnets)



KOVAL'SKIY, Konstantin Vitol'dovich; TAYTS, A.A., red.; KOMONOV, A.S.,  
red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Calculation of windings in transformer repair and rewinding  
operations] Raschet transformatornykh obmotok pri remontakh i  
peremotkakh. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1962. 48 p.  
(MIRA 16:2)

(Electric transformers--Maintenance and repair)

BYKOV, G.A., inzh.; BIRFEL'D, A.G., inzh.; GENDEL'MAN, B.R., inzh.;  
YEGORYCHEV, G.M., inzh.; KRICHEVSKIY, G.M., inzh.;  
PISTRAK, M.Ya., inzh.; TAYTS, A.A., kand. tekhn. nauk;  
FRIMES, A.P., inzh.; GOL'DIN, Ya.A., glav. red.; IVANOV, A.N., red.;  
LANOVSKAYA, M.R., red. izd-va; DOBUZHINSKAYA, L.V., tekhn.red.

[Electric power engineering] Elektroenergetika. [By] G.A. Bykov i  
dr. Moskva, Metallurgizdat, 1962. 190 p. (MIRA 16:4)  
(Electric motors) (Automatic control)  
(Metallurgical plants--Electric equipment)

TIMOSHENKO, Valentin Vasil'yevich; TAYTS, A.A., red.; MIKHAYLOVA,  
Ye.P., red. izd-va; MIKHAYLOVA, V.V., tekhn. red.

[Economizing electric power in electrometallurgical  
enterprises] Ekonomiya elektroenergii na elektrometallurgi-  
cheskikh predpriatiakh. Moskva, Metallurgizdat, 1962. 189 p.  
(MIRA 16:7)

(Electrometallurgy) (Electric power)

TAYTS, A.A.

Scientific and technical conference on new techniques in the field of electric power distribution and electrical equipment of industrial enterprises. Prem. energ 18 no.7:38-41 J1 '63. (MIRA 16:9)  
(Electric power distribution)

TAYTS, A.A.

Scientific and technical lecture conference on "New electrical equipment of industrial enterprises and its operation." Prom. energ. 19 no. 4:50-51 Ap '64. (MIRA 17:5)

BEL'KIND, L.D.; VENIKOV, V.A.; GLAZUNOV, A.A.; GRUDINSKIY, P.G.; ZHADIN, K.P.;  
ZHEBROVSKIY, S.P.; LAPITSKIY, V.I.; NEKLYUDOV, B.K.; PAVLENKO, V.A.;  
RAZEVIG, D.V.; ROSSIYEVSKIY, G.I.; SAFENOV, A.P.; SOKOLOV, N.I.;  
SOLDATKINA, L.A.; TAYTS, A.A.; UL'YANOV, S.A.; FEDOSEYEV, A.M.;  
KHEYSER, V.V.

Boris Arkad'evich Teleshev; on his 70th birthday and the 45th  
anniversary of his engineering and educational work. Elektri-  
chestvo no.9:91 S '64. (MIRA 17:10)

ROGALI-LEVITSKIY, Mikhail Viktorovich, kand. tekhn. nauk, dots.;  
STEFANOV, Vladimir Nikolayevich, prof.; TAYTS, Aleksandr  
Arkad'yevich, kand. tekhn. nauk, dots.; GORCHAKOVA, O.D.,  
red.

[Electric power plants and transformer substations] Elektri-  
cheskie stantsii i transformatornye podstantsii. Moskva,  
Transport, 1965. 367 p. (MIRA 18:8)

TAYTS, A.A., kand.tekhn.nauk

Scientific and technical conference on the use of computer techniques  
in electric power engineering. Elek. sta. 36 no.8:87-90 Ag '85.  
(MIRA 18:9)



LIBERMAN, G.R.; TAYTS, A.A.; PANIN, V.I., spets. red.;  
MINAYEV-TSIKANOVSKIY, V.A., red.

[Electric power and heat supply of cities; collection of scientific and technical information] Elektrosnabzhenie i teplosnabzhenie gorodov; nauchno-tekhnicheskii informatsionnyi sbornik. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1963. 162 p. (Novaya tekhnika zhilishchno-kommunal'nogo khoziaistva, no.4) (MIRA 18:8)

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

TAYTS, A.A.

Conference of the readers of "Promyshlennaia energetika"  
held in Moscow. Prom.energ. 20 no.12:38-39 D '65.

(MIRA 18:12)

13

I 2968-66 EAT(d)/EWP(k)/EWP(l)  
ACCESSION NR: AP5026355

UR/0105/64/000/009/0091/0091

AUTHOR: Bel'mind, L. D.; Venikov, V. A.; Glazunov, A. A.; Grudinskiy, P. G.; Pavlenko, V. A.;  
Zhadin, K. P.; Zhebrovskiy, S. P.; Lapitskiy, V. I.; Neklyudov, B. K.; Razuvaev, D. V.;  
Razovig, D. V.; Rossiyeveskiy, G. I.; Safonov, A. P.; Sokolov, N. I.; Soldatkina, L. A.;  
Tayts, A. A.; Ul'yanov, S. A.; Fodoseyev, A. M.; Kheyster, V. A.

TITLE: Professor B. A. Teleshev on this 70th birthday and the 45th anniversary  
of his engineering, scientific, and teaching activity

SOURCE: Elektrichestvo, no. 9, 1964, 91

TOPIC TAGS: electric engineering personnel

ABSTRACT: Boris Arkad'yevich Teleshev was seventy years old 12 March 1964.  
He graduated from the electromechanical department of the Petrograd Poly-  
technic Institute in 1917 and gained the title Electrical Engineer in 1920.  
In the Union of Electric Power Stations of the Moskovskiy rayon, Teleshev  
was one of the founders of the first dispatcher service of the Moscow  
Power System, the chief dispatcher of this system, the manager of the high-  
voltage networks of the Moscow Union, the chief engineer in construction of  
the Moscow high-voltage network and of the high-voltage networks of the

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ACCESSION NR: AP5026355

Moskovskiy rayon and the chief engineer in construction of the Bobrikovsk (now Novomoskovsk) hydroelectric station. In connection with the reorganization of construction in 1931, Teleshev was transferred to Energostroy, first as chief engineer of the Moscow division and then as deputy chief of the design administration of Energostroy (now Teploelektroproyekt). In 1934, Teleshev took the post of assistant director of the Scientific Section of the Power Engineering Institute imeni Krzhishanovskiy of the Academy of Sciences USSR and worked as the immediate assistant to Academician G. M. Krzhishanovskiy in directing the Institute until 1946. Starting in 1923, he did scientific research work first at the Moscow Institute of Mechanics im. Lomonosov and then at the Institute of National Economy im. Plekhanov. After the founding of the Moscow Power Engineering Institute in 1930, Teleshev transferred to that Institute and worked there until 1940. Here he was Lecturer of the Department of "Central Electric Stations" and a professor in the department. He received his professorship in 1933. He was Dean of the Electric Power Department of the Institute from 1932-1935. In 1940, Teleshev was made director of the Department of Electrical Engineering of the Moscow Institute of Fine Chemical Technology where he remained until 1965. In 1944 he took part in organizing the Power Engineer-

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ACCESSION NR: AP5026355

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ing Department of the Moscow Institute of Engineering Economics im. S. Ordzhonikidze. From 1946 to the present, Teleshev has been director of the Department of "Electric Stations and Substations" and there have been two printings of his textbook on a course in "General Electrical Engineering." Teleshev has acted in a consultative capacity in plans for a great number of electrical stations and networks. He participated in the Government Consultation on the Dneper hydroelectric station im. V. I. Lenin. He has been an active member of the Scientific and Technical Society of the Power Industry for more than 20 years. He was chairman of the Moscow board of the Society from 1944 to 1951. For his service to the Society, he has been made a permanent member. In 1950 he was elected deputy in the Moscow Council of Deputies of the Workers. He has been decorated with the Order of Lenin, the Order of the Red Banner of Labor and with medals.

Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 00

NR REF SO/1: 000

ENCL: 00

OTHER: 000

SUB CODE: EE

JPRS

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Card 3/3

L 22589-66 EWT(d)/EMP(1) LJP(c) BB/GG

ACC NR: AP6012930

SOURCE CODE: UR/0104/65/000/008/0087/0090

AUTHOR: Tayts, A. A. (Candidate of technical sciences)

67

ORG: none

B

TITLE: Scientific and technical conference on the uses of computer technology in electric power production III

SOURCE: Elektricheskiye stantsii, no. 8, 1965, 87-90

TOPIC TAGS: electric power production, scientific conference, computer application, digital computer, algorithm, analog computer, cybernetics

ABSTRACT: This conference was held in Moscow from 23 to 26 December 1964, and was attended by over 400 delegates, representing the major power institutes and installations in the European part of the Soviet Union. Over 40 papers were audited and discussed. Subjects covered included computer applications for optimization of power systems, <sup>16, 14</sup> planning and design of power systems, calculation of transient processes, optimization of power distribution, and designs of power grids and smaller networks. Also considered were special computer designs and the status and future prospects for computer uses in power production. The Ural-2 digital computer is now regularly used to predict power demands on the several unified power grids in European USSR, thereby permitting both short and long term optimization of power production from the viewpoint of effective exploitation of equipment, distribution of active and reactive loads, and

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UDC: 621.310:681.14

L 22589-66

ACC NR: AP6012930

water and fuel conservation. A method has been developed to group individual power stations and customers so as to reduce hundreds of variables to 10 to 15, which can be used as reliable criteria in optimizing grid operation. One paper treated techniques of computer simulation of power problems. A number of papers focussed attention on computer analysis of the operation of small units and equipments of large power complexes. Several papers dealt with applications of programs identified as K0 and K1 for large-scale power calculations on the URAL series of computers (other available programs and subprograms, as well as algorithms were also described). A few papers dealt with stability problems.

One paper described the construction and operation of the RER analog computer: Model 1 is designed for 16 power plants, Model 2 is designed to handle 24. The EKRAN-4 is now widely used in most of the larger plants.

The delegates recommended establishment of a central library of programs and further development of cybernetics and optimization techniques. Considerable progress and valuable contributions by various institutes in the power field were acknowledged by the conferees.

This rather extensive review of the conference is replete with names and associations involved in electric power production and distribution in the Western USSR. [JPRS]

SUB CODE: 10, 09 / SUM DATE: none

Card 2/2 *gal*

L 37190-00

ACC NR: AP6027843

SOURCE CODE: UR/0094/66/000/005/0051/0053

45  
B

AUTHOR: Tayts, A. A.

ORG: none

TITLE: Scientific and technical seminar, Automatics and Telemechanics in Electrical Power Systems of Industrial Enterprises

SOURCE: Promyshlennaya energetika, no. 5, 1966, 51-53

TOPIC TAGS: electric engineering conference, industrial enterprise, industrial automation, electric power engineering, power supply, reliability engineering, electric equipment

ABSTRACT: The seminar was held in Moscow in 1965, and about 400 representatives of regional power administrations were present. Twelve reports were heard on the following themes: automation and telemechanization of electric power supply systems of industrial enterprises; usage of the increased active resistance of cable cores upon heating to automate short-circuit cutoff; automatic devices for line dividers of transit 110 kv substations; the reliability of automatic startup of auxiliary generating equipment; automatic control of transformer voltages; automatic control of excitation of synchronous motors; automatic control of condenser power; automatic telemechanical auxiliary generator control equipment, its planning and production; a tone apparatus for remote disconnection of equipment. The delegates recommended that further development work on uniform, integrable automated equipment be undertaken. [JPRS: 36,501]

SUB CODE: 05, 09 / SUBM DATE: none

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0911

1353



TAYTS, A. Yu.; GULYANESKIY, B. S.; STRELETS, Kh. L.

Metallurgy of Magnesium, Gosudarstvennoye Nauchno-Tekhnicheskoye Izdatel'stvo  
Literatury po Chernoy i Tsvetnoy Metallurgii. Moscow (1950) 491 pp.

B-78883, 13 Sep 54

AUTHOR: Tayts, A.Yu.

287

TITLE: Reduction of magnesium oxide with silicon-aluminium alloys.  
(Vosstanovlenie Okisi Magniya Kremnealyuminievymi Splavami.)

PERIODICAL: "Tsvetnye Metally" (Non-ferrous Metals),  
1957, No. 1, pp. 56 - 66, (U.S.S.R.)

ABSTRACT: Silicon-aluminium alloys, since they appear as by-products in the treatment of primary aluminium-silicon alloys to produce silumin or aluminium, are economically attractive reducing agents for magnesium reduction. Experimental investigations have shown that in the reaction of magnesium with such alloys the presence of lime in the charge has a very favourable effect on magnesium-yield: with a lime:magnesia ratio of 1.2 by weight the yield rises to over 80%, the value with no added lime being 30%. Comparison of silicon-aluminium alloy with ferrosilicon as a reducing agent for magnesia show that the former, when in the form of filter residues, is more reactive.

There are 10 tables and 4 figures. There are 6 references, of which 5 are Russian.

SOV/137-58-8-16651

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 58 (USSR)

AUTHOR: Tayts, A.Yu.

TITLE: Studies in the Silicothermal Recovery of Magnesium (Raboty po silikotermicheskomu polucheniyu magniya)

PERIODICAL: V sb.: Legkiye metally. Nr 4. Leningrad, 1957, pp 99-105

ABSTRACT: Methods of reducing MgO from dolomite or magnesite by means of Al, Si, Fe-Si, Si-Al, Si-Ca, and CaCl<sub>2</sub> have been developed and verified on pilot-plant scale. The most efficient and economically profitable reductants are 75% Fe-Si, Si-Al, and a mixture of CaC<sub>2</sub> with Fe-Si. When MgO is reduced by means of Fe-Si or Fe-Si+CaC<sub>2</sub>, the charge is calculated to produce 2CaO·SiO<sub>2</sub> in the residue. When Si-Al is used, 2CaO·SiO<sub>2</sub> and 5CaO·3Al<sub>2</sub>O<sub>3</sub> is produced in the residue. The addition of 2-5% CaF<sub>2</sub>, which increases the Mg yield, has a favorable effect. The charge should be calcined until complete elimination of CO<sub>2</sub> and H<sub>2</sub>O is attained, and then briquetted under a pressure of up to 1000 kg/cm<sup>2</sup>. Reduction with distillation of Mg was run at 1190-1210° in retort vacuum furnaces having graphite heaters and retorts of a medium-carbon steel.

Card 1/2

SOV/137-58-8-16651

Studies in the Silicothermal Recovery of Magnesium

The Mg yield with a 490-kg charge and a 25.6-hour cycle was 67.7 kg (66.5%). A 400-kw furnace with 2 retorts having a total capacity of 3 t of charge has been designed and is being tested.

Ye.Z.

1. Magnesium--Recovery
2. Magnesium oxide--Reduction
3. Silicon--Properties

Card 2/2

SOV/137-58-8-16650

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 58 (USSR)

AUTHORS: Voynitskiy, A.I., Tayts, A.Yu.

TITLE: VAMI Studies in the Field of Calcium Metallurgy (Raboty VAMI v oblasti metallurgii kal'tsiya)

PERIODICAL: V sb.: Legkiye metally, Nr 4. Leningrad, 1957, pp 120-124

ABSTRACT: The optimum conditions for electrolytic recovery of Ca and its alloys have been determined, and a method of extracting Ca by heat in vacuum has been found. Dewatering of  $\text{CaCl}_2$  for subsequent electrolysis is performed by remelting at  $850-900^\circ\text{C}$  for 30 to 40 min. Addition of 5%  $\text{NH}_4\text{Cl}$  is desirable. The electrolysis is performed with pure  $\text{CaCl}_2$  or a mixture of 25 parts by weight  $\text{CaCl}_2$  and 4 parts  $\text{CaF}_2$ . The process is run at  $780-810^\circ$ , cathode current density  $40-50 \text{ amps}/\text{dm}^2$ , and bath voltage 20-30 v. The current efficiency is 85%, and 40 kwh is consumed per kg Ca. Fe and alkaline metals must not be allowed to accumulate in the electrolyte.  $\text{CaCl}_2$  electrolysis with liquid cathode (Al, Pb, Cu, or other metals) is possible and yields a corresponding Ca alloy. Ca may easily be driven off in vacuum from a Ca-Cu alloy. Alloys of Cu and Al are produced at

Card 1/2

SOV/137-58-8-16650

VAMI Studies in the Field of Calcium Metallurgy

~5.5-v potential and 800-850° for low Ca contents. It is possible to produce Ca-Al alloys containing up to 50% Ca. Under these conditions current efficiency increases as temperature rises to 800-900°. It is desirable to add 15% KCl to the electrolyte. When CaO is reduced by Al by heat in vacuum in a 400-kg-charge furnace with graphite heaters, the Ca yield is 60-70% (up to 92 kg per batch) at a process temperature of 1200-1300°. The charge required per kg Ca is 3.8-4.3 kg, the Al consumption is 0.67-0.78 kg, and the electric energy consumption 14 kwh. The % contents of the resultant Ca was: Fe 0.003-0.004, Si 0.05-0.008, Mn 0.04-0.15, Cu 0.002-0.004, N<sub>2</sub> 0.006-0.009, Al 0.2, Mg 1-2 (from the Mg in the charge). It is also possible to recover Ca by reduction of CaO with an Si-Al alloy at 1375-1400° in an 0.05-1 mm Hg vacuum with up to 85% Ca yield, and also with the aid of Fe-Si at 1400-1450° in an 0.01-0.03 mm Hg vacuum, with a yield of 50-70% and an Fe-Si consumption of 0.6-0.8 kg/kg Ca.

Ye.Z.

1. Calcium--Recovery
2. Calcium alloys--Production
3. Calcium--Electrolysis
4. Electrolytic cells--Performance

Card 2/2

5. (1)

AUTHORS:

Tay's, A. Yu., Chel'tsov, V. M.

SOV/64-59-5-10/28

TITLE:

Preparation of Metallic Potassium by the "Vacuothermic" Method

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 5, pp 404-408 (USSR)

ABSTRACT:

The present investigation was carried out in the experimental plant of the Dnepropetrovskiy alyuminiyevyy zavod (Dnepropetrovsk Aluminum Plant) in collaboration with the co-workers of the VAMI, V. M. Kozlov and D. N. Chemrukov. The method mentioned in the title is based on a reduction of potassium chloride (I) (in vacuum) by other metals or alloys ("metallothermic") or with calcium carbide ("carbidothermic"). P. V. Gel'd et al. (Ref 3) reported on the latter. N. M. Nikolayshvili (Ref 4) reduced (I) with silicon alloys, whereas V. M. Gus'kov, N. M. Zuyev, and A. I. Voynitskiy (Ref 5) carried out the (I)-reduction with silicon alloys and also with aluminum. On the basis of these investigation results the experiments of the present paper were made with ferrosilicon (II) and aluminum silicon (III) (in the beginning with calcium carbide under the participation of a team of the UNIKhim). The following reactions were investigated: the carbidothermic

Card 1/3

Preparation of Metallic Potassium by the "Vacuo-thermic" SOV/64-59-5-10/28  
Method

reduction  $2\text{KCl} + \text{CaC}_2 = \text{CaCl}_2 + 2\text{C} + 2\text{K}$  (1), the aluminothermic reduction  $18\text{KCl} + 14\text{CaO} + 6\text{Al} = 5\text{CaO} \cdot 3\text{Al}_2\text{O}_3 + 9\text{CaCl}_2 + 18\text{K}$  (2), and the silicothermic reduction  $4\text{KCl} + 4\text{CaO} + \text{Si} = 2\text{CaO} \cdot \text{SiO}_2 + 2\text{CaCl}_2 + 4\text{K}$  (3), further, the authors calculated the free energy  $\Delta F$  (within the temperature range 1123 - 1323°K), the equilibrium constant  $K_p$ , the equilibrium pressure of potassium vapors  $P_K$ , and  $\lg P_K$  (Table 1). The experiments were made on a semicommercial scale with 150-300 kg charging initial quantity for the preparation of 20-40 kg of metallic potassium. The charge was briquetted and the potassium chloride was thermally reduced in vacuum. The charge consisted of potassium chloride (of up to 4% NaCl), limestone, and ferrosilicon (72.3% Si). The components ((I) and (II)) were dehydrated, finely ground (-60 to -80 mesh) and subsequently briquetted. The reduction was made in a perpendicular vacuum retort furnace (Fig 2) whereby the condensation of the salt from the gaseous phase took place in the upper part of the furnace while that of the

Card 2/3



Preparation of Metallic Potassium by the "Vacuothermic" SOV/64-59-5-10/28  
Method

metal vapors occurred in the lower (hotter) part. The reduction was started at 810-850° and proceeded at 780-800° (0.5-0.8 mm Hg). The first series of experiments resulted in potassium yields of only 15-35%. To increase the reaction rate, 5 and 9% of calcium fluoride (IV) was added in the second series of experiments. An addition of 5% of (IV) increased the potassium yield to 47.7-62.7% (Table 2), as well as a reduction in the (II)-consumption and current consumption. Further experiments carried out with (III) offered good results (39.3-58.5% potassium yield, Table 3); though only a reduced yield is obtained as compared to the (II)-procedure (Table 4), the consumption of (III) is considerably less than that of (II). A technological schedule of operation is given (Fig 3). There are 3 figures, 3 tables, and 8 Soviet references.

Card 3/3

PHASE I BOOK EXPLOITATION

SOV/4184

Strelets, Kh.L., A.Yu. Tayts, and B.S. Gulyanitskiy.

Metallurgiya magniya (Metallurgy of Magnesium) 2d ed., rev. and enl. Moscow, Metallurgizdat, 1960. 479 p. Errata slip inserted. 2,650 copies printed.

Reviewers: V.A. Pazukhin, Doctor of Technical Sciences, Professor, Ya.M. Kheyfits, Candidate of Chemical Sciences, V.N. Verigin, Candidate of Technical Sciences, A.Ya. Fisher, Candidate of Technical Sciences, Ya.A. Tsenter, Candidate of Technical Sciences, G.S. Markov, Engineer, and V.V. Krivoruchenko, Engineer; Ed.: S.M. Chernobrov; Ed. of Publishing House: M.S. Arkhangel'skaya; Tech. Ed.: M.R. Kleyman.

PURPOSE: This book is intended for technical and scientific personnel in the metallurgical industry. It may be used by students of the field in schools of higher education, particularly those specializing in the production of magnesium.

COVERAGE: The book gives the characteristics of the raw materials used in the production of magnesium, and discusses the theoretical bases of magnesium metallurgy. The electrolytical and thermal manufacturing processes are described. The properties of magnesium and the methods used in its refinement are discussed. B.S. Gulyanitskiy wrote Chapters I and IV, Kh.L. Strelets -- Chapter II, and Card ~~1/15~~

Metallurgy of Magnesium

SOV/4184

A.Yu. Tayts -- Chapters III and V. The authors thank Professor Doctor V.A. Pazukhin. There are 438 references.

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2. Natural brines of magnesium salts	20
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Card 2/15

TAYTS, A.Yu.

Thermal reduction of magnesium oxide by a mixture of ferrosilicon, calcium carbide, and aluminum-silicon. Zhur. prikl. khim. 33 no.8: 1714-1718 Ag '60. (MIRA 13:9)

(Iron-silicon alloys)  
(Aluminum-silicon alloys)

(Calcium carbide)  
(Magnesium oxide)

IVANOV, Aleksandr Ivanovich; KRIVORUCHENKO, Vladimir Vladimirovich;  
IL'ICHEV, Vasilii Andreyevich; KRYZHKO, I.S., retsenzent;  
NECHAYEV, V.M., retsenzent; IRTEGOV, N.N., retsenzent;  
TAYTS, A.Yu., red.; ARKHANGEL'SKAYA, M.S., red. izd-va;  
DOBUZHINSKAYA, L.V., tekhn.red.

[Electrolytic production of magnesium] Proizvodstvo magniia elektrolizom. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1962. 254 p.

(MIRA 15:2)

(Magnesium--Electrometallurgy)

TAYTS, A.Yu.

Concerning V.M.Chel'tsov's and I.D.Tsaregorodtsev's article  
entitled "Vacuum Furnaces for the silicothermic method of pro-  
ducing magnesium." TSvet. met. 35 no.3:85 Mr '62. (MIRA 15:4)  
(Vacuum metallurgy--Equipment and supplies) (Chel'tsov, V.M.)  
(Tsaregorodtsev, I.D.)

TAYTS, B.A., kandidat tekhnicheskikh nauk, dotsent.

Special factories and plants for the production of reduction gears.  
Vest.mash.27 no.12:82-83 D '47. (MIRA 9:4)  
(Gearing) (Machinery industry)

TAYTS, B. A.

PA 12/49T51

USSR/Engineering  
Machinery  
Gears

Aug 48

"Selection of a System of Taking Readings and Un-  
related Errors for Geared Mechanisms," B. A. Tayts,  
15 pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 8

Treats subject under following headings: (1) system  
of taking readings; (2) primary errors of a gear-  
wheel; (3) periodic errors of gearwheels; (4) peri-  
odic errors of gearwheels produced by chasers, hobs  
and shavers.

12/49T51



7A YTS, BA  
BRAD, U.

S.I., kandidat tekhnicheskikh nauk; S. I. S. I., professor, doktor tekhnicheskikh nauk; BEYZEL'MAN, M. S., inzhener; BELYAYEV, V. M., kandidat tekhnicheskikh nauk; BIRGEI, I. A., kandidat tekhnicheskikh nauk; BCGUSLAVSKIY, P. Ye., kandidat tekhnicheskikh nauk; BOROVICH, L. S., kandidat tekhnicheskikh nauk; VOL'KIR, A. S., professor, doktor tekhnicheskikh nauk; GONIKBERG, Yu. M., inzhener; GORODETSKIY, I. Ye., professor, doktor tekhnicheskikh nauk; GORDON, V. O., professor; DIMENTBERG, F. M., kandidat tekhnicheskikh nauk; DOSCHATOV, V. V., inzhener, IVANOV, A. G., kandidat tekhnicheskikh nauk; KIMASHOVIII, R. S., professor; KODNIP, D. S., kandidat tekhnicheskikh nauk; KOLCHITSEV, A. A., kandidat tekhnicheskikh nauk; KRIFTIKOV, I. P., kandidat tekhnicheskikh nauk; KUSHUL, M. Ya., kandidat tekhnicheskikh nauk; LEVENSON, Ye. M., inzhener; MAZYRIN, I. V., inzhener; MALIKIN, S. M., kandidat tekhnicheskikh nauk; MARTYCOV, A. M., kandidat tekhnicheskikh nauk; NIBERG, H. Ya., kandidat tekhnicheskikh nauk; NIKOLAEV, G. A., professor, doktor tekhnicheskikh nauk; PETRUSEVICH, A. I., doktor tekhnicheskikh nauk; POZDNYAEV, S. N., dotsent; POMANGEEV, S. D., professor, doktor tekhnicheskikh nauk; PRIGOROVSKIY, N. I., professor, doktor tekhnicheskikh nauk; PRONIN, B. A., kandidat tekhnicheskikh nauk; RESHETOV, D. N., professor, doktor tekhnicheskikh nauk; SATEL, E. A., professor, doktor tekhnicheskikh nauk; SERENSEN, S. V.; SLOBODKIN, M. S., inzhener; SPITSYN, N. A., professor, doktor tekhnicheskikh nauk; STEIN, G. B., kandidat tekhnicheskikh nauk; TATTS, B. A., kandidat tekhnicheskikh nauk; TETEL'BAUM, I. M., kandidat tekhnicheskikh nauk; UMANSKIY, A. A., professor, doktor tekhnicheskikh nauk; FEODOS'YEV, V. I., professor, doktor tekhnicheskikh nauk;

(Continued on next card)

BABKIN, S.I.--- (continued) Card 2.

KHAYT, D.M., kandidat tekhnicheskikh nauk; SYDINOV, V.Ye., kandidat tekhnicheskikh nauk; SHRAYBER, M.B., inzhener, nauchnyy redaktor; SHEDROV, V.S., kandidat tekhnicheskikh nauk, nauchnyy redaktor; TSVETKOV, A.P., dotsent, nauchnyy redaktor; SLEPNIKOV, A.I., inzhener, nauchnyy redaktor; MARKUS, M.Ye., inzhener, nauchnyy redaktor; KAROMOV, V.G., inzhener, nauchnyy redaktor; ACHERKAS, N.S., doktor tekhnicheskikh nauk, professor, redaktor; SOLOIOVA, T.F., tekhnicheskii redaktor

[Manual of machinery manufacture] Spravochnik mashinostroitel'no;  
v trekh tomakh. Moskva, Gos.nauchno-tekhnicheskoe mashinostroit.  
lit-ry. Vol.3. 1951 1098 p. (MIRA 10:9)

1. Deystvitel'nyy chlen Akademii nauk USSR (for Serensen)  
(Machinery)

TAYTS, B.A.

(Boris Arkad'yevich)

"Basic Problems of the Precision of Preparation and Control of Gear  
Wheels," (Dissertation), Academic degree of Doctor in Technical Sciences,  
based on his defense, ~~in~~ 13 May 1953, in the Council of the Moscow  
Machine-Tool and Tool Inst im. Stalin.

M- 3,054,778, 2 Oct 57

TAYTS, B.A.

MALYY, D.D., inzhener; TAYTS, B.A., kandidat tekhnicheskikh nauk, dotsent.

Gear measuring instruments. Vest.mash. 33 no.6:72-77 Je '53. (MLBA 6:6)  
(Gearing) (Measuring instruments)

TAYTS, B.A., kandidat tekhnicheskikh nauk, redaktor; SOKOLOVA, T.F.,  
tekhnicheckiy redaktor.

[Methods for increasing accuracy in machining gear wheels]  
Puti povysheniia tochnosti obrabotki zubchatykh kolea.  
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954.  
222 p. (MLRA 8:2)  
(Gearing)

TAYTS, B.A.  
AL'SHITS, I.Ya., kandidat tekhnicheskikh nauk; BABKIN, S.I., kandidat tekhnicheskikh nauk; BALAKSHIN, B.S., doktor tekhnicheskikh nauk, professor; BEYSEL'MAN, R.D., inzhener; BELYAYEV, V.H., kandidat tekhnicheskikh nauk; BEHEZINA, N.I., inzhener; BIRGER, I.A., doktor tekhnicheskikh nauk; BOGUSLAVSKIY, Yu.M., kandidat tekhnicheskikh nauk; BOBOVICH, L.S., kandidat tekhnicheskikh nauk; GONIKBERG, Yu.M., inzhener; GORDON, V.O., professor; GORODEFSKIY, I. Ye., doktor tekhnicheskikh nauk, professor; GROMAN, M.B., inzhener; DIKER, Ya.I., kandidat tekhnicheskikh nauk; DOSCHATOV, V.V., inzhener; IVANOV, A.G., kandidat tekhnicheskikh nauk; KINASOSHVILI, R.S., doktor tekhnicheskikh nauk, professor; KHUTIKOV, I.P., kandidat tekhnicheskikh nauk; LEVENSON, Ye.M., inzhener; MAZYRIN, I.V. inzhener; MARTYNOV, A.D., kandidat tekhnicheskikh nauk; NYBERG, N.Ya., kandidat tekhnicheskikh nauk; NIKOLAYEV, G.A., doktor tekhnicheskikh nauk, professor; PETRUSEVICH, A.I., doktor tekhnicheskikh nauk; POZDNYAKOV, S.N., dotsent; PONOMAREV, S.D., doktor tekhnicheskikh nauk, professor; PRONIN, B.A. kandidat tekhnicheskikh nauk; RESHETOV, D.N., doktor tekhnicheskikh nauk, professor; SATEL', E.A., doktor tekhnicheskikh nauk, professor; SIMAKOV, F.F., kandidat tekhnicheskikh nauk; SLOBODKIN, M.S., inzhener; SPITSYN, N.A., doktor tekhnicheskikh nauk, professor; STOLBIN, G.B., kandidat tekhnicheskikh nauk; TAYTS, B.A., doktor tekhnicheskikh nauk; CHERNYSHEV, H.A., kandidat tekhnicheskikh nauk; SHMEYDEROVICH, R.M., kandidat tekhnicheskikh nauk;  
(Continued on next card)

AL'SHITS, I.Ya., kandidat tekhnicheskikh nauk (and others)..... Card 2.

cheskikh nauk, BYDINOV, V.Ya., kandidat tekhnicheskikh nauk;  
ERLIKH, L.B., kandidat tekhnicheskikh nauk; ACHERKAN, N.S.,  
doktor tekhnicheskikh nauk, professor, redaktor; MARKUS, M.Ye.,  
inzhener, redaktor; KARGANOV, V.G., inzhener, redaktor; SOKOLOVA,  
T.F., tekhnicheskij redaktor.

[Mechanical engineer's manual; in 6 volumes] Spravochnik mashino-  
stroitel'ia; v shesti tomakh. Izd.2-e, ispr. 1 dop. Moskva, Gos.  
nauchno-tekhn.isd-vo mashinostroit. lit-ry, Vol.4, 1955. 851 p.  
(Mechanical engineering) (MLRA 8:12)

TAYTS, B.A.

VOLODIN, Ye.I., kandidat tekhnicheskikh nauk; GORODETSKIY, I.Ye., professor, doktor tekhnicheskikh nauk [deceased]; DOSCHATOV, V.V., inzhener; KOROTKOV, V.P., kandidat tekhnicheskikh nauk; MANTSEV, B.M., inzhener; NESTEROVSKIY, M.M., inzhener; PALEY, M.A., inzhener; ROSTOVYKH, A.Ya., kandidat tekhnicheskikh nauk; TAYTS, B.A., professor, doktor tekhnicheskikh nauk; NYDINOV, V.Ya., kandidat tekhnicheskikh nauk; HRVAYS, A.V., inzhener; CHUDOV, V.A., inzhener; ACHERKAN, N.S., doktor tekhnicheskikh nauk, professor, glavnyy redaktor; VLADISLAVLEV, V.S., redaktor; MALOV, A.N., redaktor; POZDNYAKOV, S.N., redaktor; STOLBIN, G.B., redaktor; CHERNAVSKIY, S.A., kandidat tekhnicheskikh nauk, redaktor; MARKUS, M.Ye., inzhener, redaktor [deceased]; KARGANOV, V.G., inzhener, redaktor graficheskikh rabot; SOKOLOVA, T.F., tekhnicheskiy redaktor

[Metal worker's manual; in five volumes] Spravochnik metallista; v piati tomakh. Red. sovet N.S.Acherkan i dr. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry. Vol.1.(Pod red.S.A.Chernavskogo).1957.603 p. (Mechanical engineering)



TAYTS, B. A.

28-1-8/42

AUTHOR: Tayts, B.A., Professor, Doctor of Technical Sciences  
 TITLE: Gear Drive Tolerances (Dopuski na zubchatyye peredachi)  
 PERIODICAL: Standartizatsiya, # 1, Jan-Feb 1957, p 37-45 (USSR)

ABSTRACT: The article considers the new standards "ГОСТ" 1643-56, 1758-56, and 3675-56 which were approved in 1956 and will become effective in June 1958, and the faults of the "ГОСТ" 's 1643-46, 5411-50 and 5412-50 which are presently in use, and contain general theoretic data related to gear tolerances, with explanations of causes and consequences of machining inaccuracies. The plotting principles of the new standards are given in detail (for cylindrical gears only, since the principles of plotting the tolerance standards for bevel and worm gears are similar), with diagrams and formulas. It is stressed that the tool industry must arrange production of the necessary instruments, (one-profile combination meters, angle pitch gages, axial pitch meters, contact meters, special gears with a changed contact angle) and that a number of the present standards for measuring gears, gear cutting tools, and gear cutting machine tools ought to be revised. The projects for the aforementioned new standards

Card 1/2

28-1-8/42

Gear Drive Tolerances

are being developed by L.A. Arkhangel'skiy, M.S. Polotskiy, B.A. Tsyts, and G.I. Tkachevskiy of the Gear Drive Department of TsNIITMASH.

The article contains 5 diagrams, 1 chart, and 5 bibliographic references, 4 of which are Russian.

ASSOCIATION: TsNIITMASH

AVAILABLE: Library of Congress

Card 2/2

TAYTS, B.A.

Efficient design of transmitting levers for measuring instruments.  
Izm. tekhn. no. 4:10-12 JI-Ag '57. (MIRA 10:8)  
(Measuring instruments) (Mechanical movements)

KOZLOV, Mikhail Prokof'yevich; TAYTS, B.A.; doktor tekhn.nauk, retsentsent;  
KOKHTEV, A.A., inzh., red.; SEREBRENNIK, M.Ye., izdatel'skiy red.;  
ROZHIN, V.P., tekhn.red.

[Gear transmissions in precision instruments] Zubchatye peredachi  
tochnogo priborostroeniia. Moskva, Gos. izd-vo obor.promyshl.,  
1958. 392 p. (MIRA 11:4)  
(Gearing) (Instruments--Transmission devices)

TAYTS, B. A. (Doctor of Technical Sciences)

Belyayev, V. N., Candidate of Technical Sciences; Birger, I. A., Doctor of Technical Sciences; Demidov, S. P., Candidate of Technical Sciences; Korotkov, V. P., Candidate of Technical Sciences; Kudryavtsev, V. N., Doctor of Technical Sciences, Professor; Martynov, A. D., Candidate of Technical Sciences; Niberg, N. Ya., Candidate of Technical Sciences; Ponomarev, S. D., Doctor of Technical Sciences, Professor; Pronin, B. A., Candidate of Technical Sciences; Push, V. E., Candidate of Technical Sciences; Sleznikov, G. I., Engineer; Stolbin, G. B., Candidate of Technical Sciences; Tayts, B. A., Doctor of Technical Sciences

Spravochnik metallista. t. 2 (Metals Engineering Handbook. v. 2) Moscow, Mashgiz, 1958. 974 p. 100,000 copies printed.

Ed. (title page): Chernavskiy, S. A., Candidate of Technical Sciences; Ed. (inside book): Markus, M. Ye., Engineer (deceased); Tech. Ed.: Sokolova, T. F.; Editorial Board of the set: Acherkan, N. S., Doctor of Technical Sciences, Professor, Chairman of the Board and Chief Ed.; Vladislavlev, V. S. (deceased); Malov, A. N.; Pozdnyakov, S. N.; Rostovkyh, A. Ya.; Stolbin, G. B.; and Chernavskiy, S. A.

**PURPOSE:** The book is intended for technicians and engineers working in the field of machine design and in production.

~~Card 1/19~~

TANTS, B. A., Prof. and KORVAYOV, B. P., Doz.

"Kinematic accuracy of mechanical linkages" (Section II)

report submitted for Measurement and Automation, Scientific Society for (Hungarian)  
Intl Measurements Conference - Budapest, Hungary, 24-30 Nov 58

~~ТАЙТС, А. Б.~~, KOROTKOV, V. P.  
*TAYTS, B. A.*

"Gerät für Kontrolle der kinematischen Genauigkeit von Verzahnungen"

report presented at the  
Intl. Measurements Conference (IMEKO) Budapest, 24-30 November <sup>1958</sup> 1960

TAYTS, B.A.

25(1,6) PHASE I BOOK EXPIRATION 307/1992

Akademiya nauk SSSR. Institut mashinovedeniya  
Osnovnye voprosy tochnosti, razmeshchayemosti i tekhnicheskikh  
izmereniy v mashinostroyeniye (Basic Problems of Accuracy, Inter-  
changeability and Engineering Measurements in Machine Building)  
Moscow, Murgis, 1958. 411 p. 4,500 copies printed.

Ed. A.M. Gavrilov, Doctor of Technical Sciences, Professor,  
Tech. Ed. R. I. Model'skiy, Managing Ed. for literature on  
Machining and Tool Making (Machgis); R.D. Deyzal'man, Engineer.

PURPOSE: This collection of articles is intended for engineering  
and scientific workers and for teachers and students of machine  
and instrument building vtuses.

COVERAGE: This collection of articles presents the results of a sym-  
posium on basic problems of accuracy, interchangeability and  
engineering measurements, convened in March 1956 by the Machine  
Building Technology Commission of IMZh Akad. Nauk (USSR), the  
Machine Construction of the Academy of Sciences (USSR), the  
State Committee for Modern Technology, the Committee for  
Standard Weights and Measuring Instruments Building and the  
Ministry of Higher Education of the USSR. In the articles  
dealing with accuracy of fabrication, problems of the theory and  
practice of calculating accuracy, standard processes and  
standard products are discussed. In the articles on inter-  
changeability and engineering measurements an evaluation of the  
present state of this field is presented along with the  
scientific and engineering outlook for the future. Theoretical  
and practical problems of automatic inspection are discussed.  
The personalities mentioned. There are 140 references of  
which 121 are Russian, 10 German, 8 English, 1 French.

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KALASHNIKOV, N.A., prof., doktor tekhn.nauk; TAYTS, B.A., prof., doktor  
tekhn.nauk, red.; LYANDON, Yu.N., dotsent, kandyd. tekhn.nauk, red.;  
UVAROVA, A.F., tekhn.red.

[Increasing the accuracy of gear contact measurements] Povyshenie  
technosti izmereniya zubchatykh satsplenii. Pod red. B.A. Taitsa,  
IU.N. Liandona. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.  
lit-ry, 1958. 159 p. (MIRA 12:2)

(Gearing)

TAY TS, B. A

TAYTS, B.A., doktor tekhn. nauk, prof.

Methods of checking gear wheels. Mashinostroitel' no.1:32-34 Ja '58.  
(Gearing) (MIRA 11:1)

TAYTS, B. A.

28-58-2-28/41

AUTHOR: Tayts, B.A., Professor, Doctor of Technical Sciences

TITLE: Development of Normal Tolerances for a Gear Transmission  
(Razrabotka normal'ey dopuskov na zubchatyye peredachi)

PERIODICAL: Standartizatsiya, 1958, <sup>22</sup> Nr 2, pp 62-69 (USSR)

ABSTRACT: New standards "GOSTs 1643 - 56", "1758 - 56" and "3675 - 56" for gear drives will take effect on January 1, 1959. The author points out that these standards must be completed by "normal" standards (for different machine industry branches) which should not only indicate the tolerances for various parameters of gears and gear drives, but also contain recommendations for the choice of the accuracy-degree of a drive, the method of calculating the guaranteed backlash and the choosing of the mesh type, the required accuracy of gear blanks, the checking methods, and the drawings. Related calculations and charts are given. There are 4 figures, 5 charts, and 3 Soviet references.

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- 1. Gears-Standards
- 2. Standardization-USSR

SOV/122-58-7-2/31

AUTHORS: Tayts, B.A., Doctor of Technical Sciences, Professor  
and Dil'man, V.S., Engineer

TITLE: New Standards Specification for the Accuracy of Gear  
Transmissions (Novyye standarty na tochnost' zubchatykh  
peredach)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, <sup>38-</sup>Nr 7, pp 7 - 13. (USSR)

ABSTRACT: The new standards specification, GOST 1643-56, entitled  
"Cylindrical Spur Gear Transmissions. Tolerances" replaces  
the 1945 standard of the same title and comes into force  
on January 1, 1959. The specification envisages 12 grades  
of accuracy. The highest, namely, the 1st and 2nd, are  
left open for future development. The lowest (12th)  
remains unspecified, being foreseen for unmachined gears.  
Tolerances are stated for 9 grades (3rd - 11th). Increasing  
the number of grades over the old standard was dictated  
by the adoption in practice of high-precision low-  
power and high-speed high-power transmissions both  
demanding finer limits than the old 1st grade. Further,  
the geometric progression factor of 1.6 internationally  
adopted has replaced the old factor of 1.73. In effect,  
the new 7th and 8th grade tolerances almost coincide with  
the old 2nd and 3rd grade. Each grade specifies the

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New Standards Specification for the Accuracy of Gear Transmissions

standards of kinematic accuracy, smoothness of running and tooth contact accuracy separately. Thus, different requirements can be set up under different operating conditions. For example, in a turbine gear transmission the running-smoothness standard must be 1 grade above that of kinematic accuracy. The opposite relation prevails in dividing transmissions. In rolling-mill gears the accuracy with regard to tooth contact must exceed that of kinematic accuracy and running smoothness. The specification envisages four meshing fits independent of the machining accuracy. Thus, a reversing dividing transmission requires the smallest clearances and a high-speed turbine transmission, the highest. Each type of meshing is distinguished by the minimum clearance. The field of minimum and maximum clearances is illustrated. The straight spur gear specifications include helical spur gears of a width so defined that the helical feature does not guarantee overlap of tooth contact arcs. For each of the 3 accuracy standards and types of meshing, overall criteria and single-element criteria are established. The former include the kinematic error of the gear wheel, the

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cyclic pitch error, the contact spot and the limiting displacement of the basic profile as well as the error in the centre distance, the lack of parallelity and the errors due to the axes not being in one plane. These overall criteria are related to the element criteria by analytical relations. The basis of these relations rests on practical experience with the existing standards which has served to establish expressions for the tolerances and errors in the 7th grade of accuracy. The denominator of the progression for the tolerances covering the kinematic accuracy is 1.6. For the tooth contact accuracy the denominator is 1.25. The main factors which determine the tangential clearance tolerances are the tolerances of the centre distance and those on the displacement of the basic profile. These two quantities can be increased when changing over from meshing with zero clearance to meshing with a finite clearance. The tolerance for the displacement of the basic profile is associated directly with the radial eccentricity of the tooth crown and also includes a magnitude for the profile error itself. The resulting minimum and maximum clearances and the differences between them increase substantially from the most tight to the most loose meshing fit. This

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increase has been fully justified by practical requirements. The new standard specification GOST 1758-56 entitled "Bevel Gear Transmissions, Tolerances" also came into force on January 1, 1959. The new specification covers transmissions with intersecting axes (at any angle) and gears with straight, inclined and curved teeth, with a pitch circle diameter of up to 2 000 mm and a module between 1 and 30 mm. 12 grades of accuracy are envisaged, whilst tolerances and errors are stated only for all grades between the 5th and 11th. Present-day production methods of bevel gears do not include reliable procedures for manufacturing gears more accurate than the 5th grade. The new standard brings into line grade designations of bevel, spur and worm gears. Transmissions of the same grade will yield the same operating features. The greater difficulty of producing precise bevel gears even limits the application of the 5th and 6th grades of accuracy. As before, each grade contains three types of standards, namely, of kinematic accuracy, of smooth running and of tooth contact. The same gear may be made to different grades of accuracy in these three respects. In contrast with spur gears, the running smoothness can differ from the kinematic accuracy

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in bevel gears by no more than one grade. The tooth-contact grade cannot be coarser than that of the running smoothness. In the manufacture of bevel gears the variety of finishing processes is more restricted than in spur gears and it is not possible to improve the running smoothness without increasing the kinematic accuracy of gears. From the operational point of view, the manufacturing precision and the tangential clearances are not interconnected. Once again, the specification establishes four meshing fits, which determine the minimum tangential clearance. Each of the three standards of accuracy and meshing fits is covered by overall criteria and <sup>alignment</sup> element criteria. When determining the numerical values of the tolerances and fits, the basic new feature is the equal quality in operation of bevel and spur gears of the same grade of accuracy. This determines the similarity of several quantities in the two types of gears such as the kinematic error of the gear, the accumulated circular pitch error, the eccentricity of the tooth crown and the circular pitch errors. The tolerance for tooth thickness, as in other gear types, is assumed larger than the effect of eccentricity, because the change in tooth thickness resulting from eccentricity must not amount to more

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new Standards Specification for the Accuracy of Gear Transmissions

than part of the tolerance zone. Often, especially with curved teeth, the tangential clearance found in a master assembly will be a more reliable inspection method than direct measurement of tooth thickness. The worm gear standard, GOST 3675-56, equally came into force on January 1, 1959. It eliminates several gaps in the earlier standard, namely, the absence of high-precision worm transmissions, the failure to distinguish between kinematic and power transmissions, the absence of standards for large kinematic transmissions, the absence of requirements covering the overall accuracy factors for the worm wheel such as the kinematic and cyclic errors and the absence of values for the tangential clearances. 12 grades of accuracy are foreseen, of which those from the 3rd to the 9th are specified. Once again, the 1st and 2nd grades are high-precision transmissions, individually made and grades above the 9th are generally unmachined. In kinematic and dividing transmissions, the deviations of those elements are significant which determine the relative turning error of the pair. Second, since the relative position error, inevitably leads to lack of running smoothness, which appears once in every

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worm revolution, the exact reproduction of the profile and position of the worm in the worm-wheel cutting tool is essential. The latter requirement can only be achieved by an adjustment in the position of the worm. The standards replace the specification of the relative positions of worm and worm wheel by a specification of the contact spot position and of the kinematic and cyclic error. For power transmissions, assembly accuracies are given. Kinematic transmissions have specified standards in the 3rd-6th grades of accuracy; power transmission, in the 5th-9th grades. In the 5th and 6th grades, kinematic and power transmissions have identical worm tolerances but the assembly tolerances are stated only for the power transmission. To provide a distinction, the abbreviation "reg" is added to the designation of a worm transmission, denoting adjustment on assembly; thus, an adjustable transmission to the 5th grade of accuracy with D fit meshing is designated "St. 5-reg. - D GOST 3675-56". Power transmissions include modules between 1 and 30 mm, worm-wheel pitch circle diameters up to 2 000 mm and worms with pitch circle diameters up to 400 mm and an arbitrary number of starts. Kinematic transmissions extend to worm wheels of 5 000 mm

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New Standards Specification for the Accuracy of Gear Transmissions

diameter and moduli between 1 and 16 mm. The accuracy requirements are divided into those covering worm wheels, worms, adjustable kinematic transmissions, assembly of non-adjustable power transmissions and tangential clearances. Overall criteria and single-element criteria are included. The kinematic error tolerance in worm transmissions is coarser by 1 grade than the tolerance for spur gears. Therefore, worm transmissions used for dividing in gear-cutting machines must be 1 grade finer than the gears cut on the machine. Several considerations apply to the specification of the worm profile thickness accuracy, since the tangential clearance cannot be adjusted by the centre distance without disturbing the tooth contact. The specification depends on the type of cutter used to machine the worm wheel. There are 1 figure and 3 Soviet references.

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SOV/115-59-6-4/33

25(1), 28(1)

**AUTHORS:** Tayts, B.A., Korotkov, V.P.

**TITLE:** Instruments for Checking the Kinematic Accuracy of Assemblies and Machine Tools

**PERIODICAL:** Izmeritel'naya tekhnika, 1959, Nr 6, pp 13-16 (USSR)

**ABSTRACT:** The authors describe a number of devices developed in the USSR for determining the kinematic accuracy of mechanisms, especially gears. A considerable amount of mechanisms must provide a precise matching of the revolutions of the driving and the driven shafts. The mismatching must not exceed several angular seconds or microns, and, in some cases, even fractions of seconds or microns are required. Consequently, it is necessary to develop devices controlling the accuracy of individual mechanical links (gears, worm gears, screws) and devices for controlling entire link-trains and machine tools. Measurements of individual elements, gears, screws, etc. do not result in complete precision characteristics of the work of the given parts in a mechanism. Individual errors of one part are intensified or compensated by the errors of the other parts. Therefore, the most precise parts

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Instruments for Checking the Kinematic Accuracy of Assemblies and Machine Tools

must be checked under conditions analogous to the actual operation. Thus, the total error of a part may be established which it would show when installed in the mechanism for which it was designed. In the USSR, a number of devices was designed for the kinematic control of gears. The device MT-2 was produced for checking the total error of gears with a small modulus (0.02-1mm). This device is used for determining the total error of a single-profile gear link by a measuring slide. A schematic diagram of this device is shown in Fig 1. For measuring under mass production conditions, the total error of gears having a medium modulus of 1-8, and a center distance of 70-300 mm, a simple device was developed with a short and reliable kinematic train, as shown in Fig 2. A self-recorder registers the total error of the gear to be controlled. Tests of this device showed that its error with the self-recorder amounts to 2-4 seconds at different ratios. For measuring the total error of medium-modulus, spur gears, a universal device was created, as shown in Fig 3. The tendency of eliminating the precision measuring gear led to the development of the control method without reference gears as suggested by N.N. Markov.

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Instruments for Checking the Kinematic Accuracy of Assemblies and Machine Tools

This device consists of an involute meter and an angular pitch meter. The combination of these meters produces error curves of the right and left tooth profiles. The outer contour, obtained in the recorder diagram, characterizes the single-profile error curve of the gear. D.A. Tayts suggested a device for controlling helical gears of up to 300 mm diameter and a modulus of 1-8, as shown in Fig.4. L.A. Arkhangel'skiy and G.I. Tkachevskiy developed a special device for controlling the matching of the rotary motion in precision gear milling machines. A.V. Levashev developed a device for checking the matching of the rotation of two links of a kinematic train which is used at a number of machine tool plants. This device is shown in Fig.5. V.P. Korotkov developed a method of controlling matching and rotary motion in gear and screw-cutting machine tools. This method is based on optical coincidence and comparison of the shifting of dial calibrations, belonging to the driving and driven links of the kinematic trains to be checked. Fig.6 shows the diagram of this device. The dial is shown in Fig.7. There are 7 diagrams.

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DOBRYNIN, Yevgeniy Mikhaylovich; TAYTS, B.A., prof., doktor tekhn.nauk,  
retsensent; GORODETSKIY, Yu.G., kand.tekhn.nauk, retsenzent;  
VALENDINSKIY, A.S., kand.tekhn.nauk, red.; YELISEYEV, M.S.,  
red.isd-va; TIKHANOV, A.Ya., tekhn.red.

[Instruments for automatic control of dimensions in the manufacture  
of machinery] Pribory avtomaticheskogo kontrolya razmerov v mashi-  
nostroenii. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry.  
1960. 302 p. (MIRA 13:7)  
(Machinery industry) (Automatic control)





DIKER, Ya.I.; SAGIN, L.I.; TAYTS, B.A., doktor tekhn.nauk, red.; EL'KIND,  
V.D., tekhn.red.

[Manufacturing globoid worm gears] Osnovy proizvodstva cherviachnykh  
globoidnykh peredach. Moskva, Gos.nauchno-tekhn. izd-vo mashino-  
stroitel'noi lit-ry, 1960. 203 p. (Moscow, Tsentral'nyi nauchno-  
issledovatel'skii institut tekhnologii i mashinostroeniia. [Trudy],  
vol.96).

(Gearing, Worm)

(Gear cutting)

TAYTS, B.A., prof., doktor tekhn.nauk

Basic principles for selecting the precision of measuring instruments. Vzaim.i tekhn.izm. v mashinostr.; mezhvuz.sbor. no.2:202-222 '60.

(MIRA 13:8)

(Measuring instruments--Testing)

TAYTS, B.A., prof., doktor tekhn.nauk

Analyzing errors of various methods for machining gears. Vzaim.i  
tekh.izm v mashinostr.; mezhvuz.sbor. no.2:223-242 '60.

(MIRA 13:8)

(Gear cutting)

TAYTS, B. A.

PHASE I BOOK EXPLOITATION SOV/5762

Korotkov, Vladimir Petrovich, and Boris Arkad'yevich Tayts

Osnovy metrologii i tochnosti mekhanizmov priborov (Fundamentals of Metrology and Accuracy of Instrument Mechanisms) Moscow, Mashgiz, 1961. 400 p. Errata slip inserted. 12,000 copies printed.

Ed. (Title page): B. A. Tayts, Professor, Doctor of Technical Sciences; Reviewers: Z. M. Aksel'rod, Candidate of Technical Sciences, Docent, and A. I. Yakushev, Doctor of Technical Sciences, Professor; Ed. of Publishing House: I. I. Lesnichenko; Tech. Ed.: V. D. El'kind; Managing Ed. for Literature on Cold Working of Metals and Machine-Tool Making: V. V. Rzhavinskiy, Engineer.

PURPOSE : This book is intended for students of instrument design in schools of higher technical education; it may also be used by metrologists and designers engaged in the designing, testing, and adjustment of instruments.

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Fundamentals of Metrology and (Cont.)

SOV/5762

COVERAGE: Basic information is presented concerning the theory of linear measurements and the accuracy of instrument mechanisms used in dimensional inspection. The book contains examples for calculating the accuracy of mechanisms which take into account errors in arrangement, manufacturing errors caused by clearances, etc. The contents of the book correspond to the lectures delivered by the authors at the Moskovskiy vecherniy mashinostroitel'nyy institut (Moscow Night Institute of Mechanical Engineering). No personalities are mentioned. There are 121 references, all Soviet.

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TAYTS, B.A., doktor tekhn.nauk, prof.

Analysing some methods for testing spur gears. Vzaim.i tekh.  
izm.v mashinostr.; mezhvuz.sbor. no.3:135-162 '61.  
(MIRA 14:8)

(Gearing, Spur--Testing)

TAYTS, B.A.

Introducing standards for tolerances in gears. Standartizatsiia  
25 no. 5:3-7 My '61. (MIRA 14:5)  
(Gearing—Standards) (Tolerance (Engineering))

TAYTS, B.A.; MARKOV, N.N.; KOLCHIN, N.I., zasl. deyatel' nauki i tekhniki  
RSFSR, doktor tekhn. nauk, prof., red.; KUTAY, A.K., kand. tekhn.  
nauk, retsenzent; FIRUN, N.B., kand. tekhn. nauk, red.;  
ONISHCHENKO, R.N., red. izd-va; BARDINA, A.A., tekhn. red.

[Precision standards and control of gear wheels] Normy tochnosti i  
kontrol' zubchatykh koles. Pod obshchei red. N.I.Kolchina. Mo-  
skva, Mashgiz, 1962. 103 p. (Bibliotekha zuboreza, no.6)  
(MIRA 16:2)

(Gearing—Standards)



BALAKSHIN, O.B., kand. tekhn. nauk; BYKHOVSKIY, M.L., prof., doktor tekhn. nauk; VOLODIN, Ye.I., kand. tekhn. nauk; GRIGOR'YEV, I.A., kand. tekhn.nauk; DRAUDIN-KRYLENKO, A.T., inzh.; IVANOV, A.G., kand. tekhn.nauk; KOZLOV, M.P., kand. tekhn. nauk; KOROTKOV, V.P., prof.; KOCHENOV, M.I., kand. tekhn.nauk; KUTAY, A.K., kand. tekhn. nauk; MARKOV N.N.,kand. tekhn. nauk; PALEY, M.A., inzh.; RAYEMAN, N.S., kand. tekhn.nauk; ROSTOVYKH, A.Ya., kand. tekhn. nauk; RUMYANTSEV, A.V., kand. tekhn.nauk; SARKIN, I.G., prof.; SMIRNOV, A.S., inzh.; TAYTS, B.A., prof., doktor tekhn. nauk; YAKUSHEV, A.I., prof., doktor tekhn. nauk; NESTEROV, V.D., inzh., nauchnyy red.; CHUDOV, V.A., inzh., nauchnyy red.; GAVRILOV, A.N., doktor tekhn.nauk, prof., red.; BLAGOSKLONOVA, N.Yu., inzh., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Manufacture of instruments and means of automatic control: a manual in five volumes] Priborostroenie i sredstva avtomatiki; spravochnik v piati tomakh. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Vol.1. [Interchangeability and engineering measurements] Vzaimozameniaemost' i tekhnicheskije izmereniya. 1963. 568 p. (MIRA 16:8)  
(Electronic measurements) (Automatic control)

KALASHNIKOV, S.N.; KOGAN, G.I.; KOZLOVSKIY, I.S.; KORZINKIN, V.I.;  
MARKOV, N.N.; SYROYEGIN, A.A.; TAYTS, B.A., prof., doktor  
tekh. nauk, red.; TROFIMOVA, Ye.I., kand. tekh. nauk,  
retsenzent; IVANOVA, N.A., red.izd-va; EL'KIND, V.D.,  
tekh. red.

[Manufacture of gear wheels] Proizvodstvo zubchatykh koles;  
spravochnik. [By] S.N.Kalashnikov i dr. Moskva, Mashgiz,  
1963. 683 p. (MIRA 16:12)

(Gearing)

ARADZHI, K.I.; BOYTSOV, A.N.; VOLOSEVICH, F.P.; GOBERMAN, P.N.;  
KEMPINSKIY, M.M.; KUTAY, A.K.; NARINSKIY, F.I.; ODING,  
G.A.; TAYTS, B.A.; RUBINOV, A.D.; SHTYURMER, G.A.;  
BRZHEZINSKIY, M.L., kand. tekhn. nauk, retsenzent;  
SHALAYEVSKIY, O.V., red.; LEYKINA, T.L., red.izd-va;  
SPERANSKAYA, O.V., tekhn. red.

[Handbook on production control in the machinery industry]  
Spravochnik po proizvodstvennomu kontroliu v mashinostro-  
eni. Izd.2., perer. i dop. Moskva, Mashgiz, 1964. 748 p.  
(MIRA 17:3)

IVANOV, A.G.; BURDUL, G.D., doktor tekhn. nauk, prof.; VOLOSOV,  
S.S.; KOROTKOV, V.P.; PED', Ye.I.; ROSTOVYKH, A.Y.;  
RYKAR', N.F.; TAIT'S, B.A., doktor tekhn. nauk, prof.;  
KOCHENOV, M.I., kand. tekhn. nauk, retsenzent

[Measuring instruments used in the manufacture of ma-  
chinery] Izmeritel'nye pribory v mashinostroenii. Mo-  
skva, Mashinostroenie, 1964. 523 p. (MIRA 18:1)