

ALEKSEYEV, Ivan Mikhaylovich; MEL'NIKOV, Vladimir Petrovich;
~~SHVYDCHENKO, L.I., red.~~

[Manual for rural builders] Spravochnik sel'skogo stroitelia.
Rostov-na-Domu, Rostovskoe knizhnoe izd-vo, 1959. 508 p.
(MIRA 17:4)

ALEKSEYEV, I. N.

Alekseyev, I. N. "On Gromek current for an irrecondensable viscous liquid,"
Nauch. zapiski (Mosk. gidromeliioratt in-t im. Vil'yamsa), Vol. XVII,
1948, p. 91-96

SO: U-3264 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

ALEKSEYEV, I.N.; IVANENKO, V.I.; PUSHCHALOVSKIY, A.A.

Potential regulator for drainage protection of gas pipes.

Gas.prom. [no.11]:34-39 '57.

(MIRA 10:12)

(Electrolytic corrosion)

(Voltage regulators)

Alekseyev, I. P.

137-1957-12-25519

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 367 (USSR)

AUTHORS: Yefremov, G. V., Alekseyev, I. P.

TITLE: Coprecipitation of Thallium (III) with the Hydroxide of Tetra-valent Manganese [Soosazhdeniye talliya (III) gidrookis'yu chetyrehvalentnogo margantsa]

PERIODICAL: Uch. zap. LGU, 1957, Nr 211, pp 87-91

ABSTRACT: $MnSO_4$ is added to a solution of Tl^{3+} (if the concentration of Tl is greater than 1 g/ml, a ten-fold amount of $MnSO_4$ will suffice, whereas at smaller Tl concentrations the amount of $MnSO_4$ is increased to 80-100 times), followed by 10 drops of 30 percent H_2O_2 solution; under constant stirring a 2 N solution of NaOH is added dropwise until a methyl orange indicator shows that neutralization is reached; and then in sufficient quantity to precipitate the Mn and Tl. The solution is heated to a temperature of 70° in order to disperse the colloidal suspension of H_2MnO_3 formed and to obtain a clear solution. Three hours later the precipitate is filtered out, transferred into a beaker and dissolved by a few drops of HCl and H_2O_2 . The solution is then evaporated in

Card 1/2

137-1957-12-25519

Co-sedimentation of Thallium (III) by the Hydroxide (cont.)

a hot water bath almost to dryness, in order to remove excess H_2O_2 , and 5 ml of 6 N HCl are added to it, followed by 2 ml of a 10 percent $NaNO_3$. After 2-3 minutes a reddish-orange coloration appears and is made to disappear by a two-fold dilution of the solution with water. One ml of saturated urea solution is added, diluted to 100 ml, which is followed by an addition of 40 drops of 0.2 percent solution of methyl-violet. Complete removal of Tl from the solution, the total volume of C_6H_6 being 25 ml, is accomplished in three successive extractions. Intensity of the C_6H_6 coloring was measured on a photometer of FM type, equipped with an Nr 3 filter. Tl content is determined on a previously constructed calibration curve. The presence of Sb interferes with the determination of Tl.

Kh. Sh.

1. Thallium-Precipitation
manganese-Applications

2. Hydroxide of tetravalent

Card 2/2

VIKTOROV, I.I.; LEBEDEV, V.A., inzh.; KOVAL'SKIY, M.B.; ALEKSEYEV, I.P.;
MINKIN, V.R.; SHISHELIN, K.A.

Stabilization of loose soils of embankment foundations by
constructing sand drains. Transp.stroi. 15 no.10:37-39
O '65. (MIRA 18:12)

1. Rukovoditel' laboratorii Vsesoyuznogo nauchno-issledovatel'-
skogo instituta transportnogo stroitel'stva Ministerstva
transportnogo stroitel'stva (for Viktorov). 2. Glavnyy inzh.
tresta Kandalakshtransstroy (for Koval'skiy). 3. Glavnyy inzh.
proyekta Leningradskogo gosudarstvennogo proyektno-izyskatel'-
skogo instituta Gosudarstvennogo proizvodstvennogo komiteta po
transportnomu stroitel'stvu SSSR (for Minkin).

Alekseyev, I. S.

TRAVERSAL OF HIGH ENERGY μ -MESONS THROUGH THICK LAYERS

I. S. Alekseyev, G. T. Zatsepin

1. The absorption of cosmic ray μ -meson flux was calculated by solving a kinetic equation which takes into consideration the fluctuations in the energy losses of high energy μ -mesons.

2. An integral μ -meson energy spectrum at sea level was obtained by comparing calculated and experimental data for μ -meson rock absorption. It was found, taking account of fluctuations, that the meson flux intensity, with energy $E \cdot 10^{12}$ ev, drops by a factor of 1.5 as compares with the results obtained ignoring fluctuations.

3. The large effective cross section for the process of direct pair production, in principle, makes it possible to measure the energy of individual μ -mesons, with an energy of $E \cdot 10^{12}$ ev, by means of multilayer ionization chambers separated by lead.

Report presented at the International Cosmic Ray Conference, Moscow, 6-11 July 1959

S/058/61/000/010/025/100
A001/A101

AUTHORS: Alekseyev, I.S., Zatsepin, G.T.

TITLE: High-energy μ -mesons

PERIODICAL: Referativnyy zhurnal. Fizika, no. 10, 1961, 98, abstract 10B517
("Tr. Mezhdunar. konferentsii po kosmich. lucham, 1959, v. 1", Mos-
cow, AN SSSR, 1960, 326 - 329)

TEXT: The energy spectrum of μ -mesons is determined by solving the equation of meson diffusion in ground. The problem is investigated on the mechanism of production of high-energy ($\sim 10^{12}$ ev) μ -mesons. To determine the energy losses of μ -mesons, the following processes are considered: ionization, bremsstrahlung, generation of electron pairs, production of penetrating showers as a result of interaction of the meson electro-magnetic field with nucleons. Integrated spectrum of μ -mesons is calculated at various assumptions as to the effective cross section of photoproduction of penetrating showers. Possibilities of studying production processes of high-energy μ -mesons are briefly discussed.

L. Dorman

[Abstracter's note: Complete translation]

Card 1/1

ALEKSEYEV, I.S., gornyy inzh.

Quenching spontaneous heating of coal in blocks by means of
injecting a lime mixture into them. Ugol' 39 no.10:46-48
0 '64. (MIRA 17:12)

1. Vostochnyy nauchno-issledovatel'skiy institut po bezopasnosti
rabot v gornoy promyshlennosti.

ALEKSEYEV, I.T.

Road maintenance sections are self-supporting. Avt. dor. 28
no.2:10 F '65. (MIRA 18:6)

~~ALEKSEYEV~~, Ivan Vasil'yevich.; KOLESNIKOV, F.M., redaktor; PIMCHENKO, S.I.,
tekhnicheskii redaktor.

[Innovators and inventors of Grozny petroleum refineries] Ratsionali-
zatory i izobretateli ob"edineniia "Grozneftesavody." [Groznyi]Groz-
nenskoe kn-vo, 1955.81 p. [Microfilm] (MLRA 10:4)
(Groznyy--Petroleum engineering)

ALEKSEYEV, Ivan Vasil'eyvich

KURACHINSKIY, Leonid Ivanovich; GOLUBOVSKIY, Vasil'y Vasil'eyvich;

ALEKSEYEV, Ivan Vasil'eyvich; FILIPENOK, T.G., redaktor;

~~DADICHEVA, V.V., tekhnicheskii redaktor~~

[Petroleum worker's manual on the reduction of losses in petroleum
and its products] Pamiatka neftianika po sokrashcheniiu poter'
nefti i ee produktov. [Groznyi] Checheno-Ingushskoe knizhnoe izd-vo,
1957. 50 p. (MLRA 10:9)

(Petroleum industry)

ALEKSEYEV, I. V.

"Visual After-Images in the Light of the Teachings of I. P. Pavlov."
Cand Ped Sci, Leningrad State U, Leningrad, 1953. (RZhBiol, No 6, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000100920013-5

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000100920013-5"

USSR/Human and Animal Physiology (Normal and Pathological).
Metabolism. Nitrogen Metabolism.

T-2

Abs Jour : Ref Zhur - Biol., No 16, 1958, 74541

Author : Yefimochkina, Ye.F.; Ottesen, B.V., Alekseyev, I.V.,
Bichin, L.P.

Inst : -

Title : Investigation of Metabolism of Ammonium Citrate, Glycin and
DL of Glutamic Acid, of Labeled N15, in Normal and B6-mi-
taminosis Rats.

Orig Pub : Vopr. med. khimii, 1957, 3, No 6, 440-450.

Abstract : No abstract.

Card 1/1

GORKIN, V.A.; OTTESEN, B.V.; ALEKSEYEV, I.V.

Automatic apparatus for the uninterrupted registration of the optical density of aqueous solutions of certain biologically important substances in the ultraviolet part of the spectrum. Vop.med.khim. 5
no.5:373-376 S-O '59. (MIRA 13:2)

1. Institute of Biological and Medical Chemistry, the U.S.S.R. Academy of Medical Sciences, Moscow.
(CHEMISTRY, ANALYTICAL equip. & supply)

BICHIN, L.P.; ALEKSEYEV, I.V.

Simplified device for mass spectrometric microdetermination
of stable isotopes. Vop. mod. khim. 7 no.4:437-441 J1-Ag
'61. (MIRA 15:3)

1. Laboratory for Development of Biophysical Research Methods,
Institute of Biological and Medical Chemistry, Academy of
Medical Sciences of the U.S.S.R., Moscow.
(MASS SPECTROMETRY—EQUIPMENT AND SUPPLIES)
(ISOTOPES)

ALEKSEYEV, I.V.; POLYAKOV, V.P.; AVAKYAN, A.A.

Simple thermostatic device for the SF-4 spectrophotometer.
Vop. med. khim. 9 no.1:89-92 Ja-F '63. (MIRA 17:6)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR,
Moskva.

VDOVINA, R.G.; ALEKSEYEV, I.V.; TRIFONOVA, Zh.P.; KARPOVA, A.V.

Synthesis of B-2-methyl-1,2-bis-(β -pyridyl)-1-propanone,
a pyridine analog of amphenone. Zhur.prikl.khim. 38
no.11:2607-2609 N '65. (MIRA 18:12)

1. Institut biologicheskoy i meditsinskoy khimii AN SSSR,
Moskva. Submitted September 17, 1963.

ALEKSEYEV, I.Ye.

Determining photographic magnitudes of stars in the region
of open stellar clusters NGC7788 and NGC7790. Soob. GAISH
no.124:31-35 '62. (MIRA 16:7)

(Stars—Magnitudes)

CHIKLEYEV, S.; PAVLOVSKIY, M. (Kemerovskaya obl.); BOCHKOV, A.; KHARITONOV, I.; ZOLOTENKOV, V. (Yakutskaya ASSR); KONOBEYEV, A. (Bazarnoc-Karabulanskiy rayon, Saratovskaya obl.); VOLKOV, I.; BESEDIN, S. (Omsk); NOVIKOV, P.; GRINEV, V.; SOLOPENKOV, P.; ALEKSEYEV, K.; TOLKOV, I. (Rostovskaya obl.); KOSTENKO, P.; NOVIKOV, A., instruktor profilaktiki (Shumerlya, Chuvashskaya ASSR)

Reader's letters. Pozh. delo 9 no.11:30-31 N '63.

(MIRA 17:1)

1. Nachal'nik pozharnoy okhrany Klinskogo kombinata, Klin, Moskovskaya obl. (for Chikleyev). 2. Vneshtatnyy pozharnyy inspektor, predsedatel' Simferopol'skogo rayonnogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu (for Alekseyev). 3. Nachal'nik otдела Gosudarstvennogo pozharnogo nadzora, Sverdlovsk (for Kostenko).

ALEKSEYEV, K.

Cand. Tech. Sci.

"Winter Operation of Turbojet Engines," Grazhdanskaya Aviatsiya, No.12,
pp. 21-23, 1955

Translation D 524348

ALEKSEYEV, K., kandidat tekhnicheskikh nauk.

Construction of turbojet engines. Grazhd.av.13 no.5:23-25
My '56. (MLRA 9:9)

(Airplanes--Turbojet engines)

ALEKSEYEV, K.

Briquettes made of gasoline. IUn.tekh. 2 no.8:67-69 Ag '59.
(MIRA 12:7)

(Gasoline)

ALEKSEYEV, K., kand.tekhn.nauk

Means for improving the efficiency of turbine-propeller engines.
Grazhd.av. 12 no.8:23-25 Ag '55. (MIRA 15:8)
(Airplanes---Turbine---Propeller engines)

ALEKSEYEV, K. (A.)

KIEV - TELEVISION BROADCASTING

The Kiev television center. Radio no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress. November 1952, UNCLASSIFIED.

ALEKSEYEV, K.A.; VOL'SKIY, B.T.; SKOPENKO, A.I., redaktor; GOLOVCHENKO, G.I.,
tekhnicheskiy redaktor.

[Regulation and tuning of television sets] Regulirovka i nastroyka
televizorov. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1954. 63 p.
(Television--Receivers and reception) (MLRA 8:2)

ALEKSEYEV, K. A.

USSR/Miscellaneous - Television studios

Card 1/1 Pub. 133 - 4/24

Authors : Alekseyev, K. A., Chief of Kiev Television Center

Title : Screening of instrument rooms and studios of television centers

Periodical : Vest. svyazi 6, page 8, June 1954

Abstract : Results obtained by the Kiev Television Center in studying the effect of interferences on television images are analyzed. Two methods of protecting television studios against outside interferences are discussed. Since the feeding circuits are considered the main channel through which interferences can penetrate it is recommended that television equipment should be supplied with power from independent transformers.

Institution : The Television Center, Kiev

Submitted : ...

ALEKSEYEV, K.; KOZINSKIY, V., glavnyy inzhener teletsentra; VOL'SKIY, B.,
starshiy inzhener teletsentra.

Improving the equipment of television centers. Radio no.12:11-12
D '55. (MIRA 9:4)

1. Nachal'nik Kiyevskogo teletsentra (for Alekseyev).
(Television--Apparatus and supplies)

ALIKSEYEV, K. (Kiyev)

The television center in Bucharest. Radio no.10:45 0 '57.
(MIRA 10:10)
(Bucharest--Television stations)

ALEKSEYEV, Konstantin Alekseyevich; ZHIZHIN, Aleksey Mikhaylovich;
SHALGANOVA, V., red.; GRIGOLIYA, O., tekhn.red.

[Television receivers and their tuning] Televizionnye priemniki
i ikh nastroyka. Stalino, Stalinskoe obl.izd-vo, 1958. 81 p.
(MIRA 13:2)

(Television--Receivers and reception)

Alekseyev, K. ~~[Alekseiev, K.O.]~~, inzh.

The development of television broadcasting. Nauka i zhyttia 8
no.11:24-29 N '58.

(Television broadcasting)

6(6)

SOV/111-59-5-7/32

AUTHOR: Alekseyev, K.A., Chief

TITLE: Experience in the Operation of the Kiyev Television Center

PERIODICAL: Vestnik svyazi, 1959, Nr 5, pp 5 - 7 (USSR)

ABSTRACT: The Kiyev TV Center began its operation seven years ago, and a considerable amount of experience has been obtained in the meantime. For maintenance purposes, a file card system is used. The cards indicate the type of maintenance to be performed, the tools to be used, safety instructions and the qualifications required for mechanics performing the work. Maintenance work is performed in shifts. Completed maintenance operations are recorded in a log. Equipment failing during operation is repaired by a repair crew which also performs preventive repairs according to a schedule. During the operation of the TV center, experience was obtained concerning quality measurements of the equipment. Graphs were established

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SOV/111-59-5-7/32

Experience in the Operation of the Kiyev Television Center

which call for 70 different measurements at different times. Here also a file card system is used showing the measuring circuits and containing the required instructions. Another card system provides by-pass circuits in case of equipment failure, containing the type and required sequence of switching operations. As a rule, the operating personnel on duty must memorize the contents of these cards, which is a part of the training program. This system reduced the out-of-operation periods of the TV transmitter from 3 minutes in 1956, to 1.42 in 1957 and 0.81 minutes in 1958 per 100 hours of operation. Since the operation of the TV center began, the employees submitted more than 860 suggestions for improvement, of which around 670 were used. New equipment is constantly being introduced at the TV center. For example, units producing special

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SOV/111-59-5-7/32

Experience in the Operation of the Kiyev Television Center

effects were introduced, the first in the USSR. The motion picture projector was built on the basis of the projector "Ukraina". The power factor of the ultrashort wave transmitter was increased to 0.82 and that of the equipment/studio network to 0.9. The steps taken at the TV center, concerning productivity increase and reduction of operational expenses, lowered the cost of one broadcasting hour by 32 % in 1958 compared to the 1954 level. An important factor is the training of technical personnel and an exchange of experience with other TV centers. The workers of the different shifts are capable of performing several duties, thus there is an interchangeability of operating personnel. There are 4 photographs.

ASSOCIATION: Kiyevskiy teletsentr (Kiyev TV Center)

Card 3/3

ALEKSEYEV, Konstantin Alekseyevich; OMEL'YANENKO, Yuriy Ivanovich;
KRIVOSHEYN, M.I., otv.red.; VENGRENYUK, L.I.; MARKOCH, K.G.,
tekhn.red.

[Operation of the Kiev Television Center] Opyt ekspluatatsii
Kievskogo televizionnogo tsentra. Moskva, Gos.isd-vo lit-ry po
voprosam svyazi i radio, 1960. 31 p. (MIRA 14:7)
(Kiev--Television stations)

~~ALEKSEYEV~~, Konstantin Alekseyevich; OMEL'YANENKO, Yuriy Ivanovich;
~~KORSHAK~~, Yu. Ia., red.; GORKAVENKO, L., tekhn. red.

[Equipment of television centers] Oborudovanie televizionnykh
tsentrov. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1960. 213 p.
(MIRA 14:3)

(Television stations)

ALEKSEYEV, Konstantin Alekseyevich[Aleksieiev, K.O.]; NIMCHUNOVA,
O.O., red.; GORKAVENKO, L.I.[Horkavenko, L.I.], tekhn. red.

[Tuning and adjustment of television receivers] Nastroika i
reguliuвання televizoriv. Kyiv, Derzh. vyd-vo tekhn. lit-ry
URSR, 1961. 149 p. (MIRA 15:3)
(Television—Receivers and reception)

ALEKSEYEV, Konstantin Alekseyevich; NEMCHUNOVA, O.A., red. izd-va;
SHAFETI, S.M., tekhn.red.

[Tuning and adjustment of television receivers] Nastroika i
regulirovka televizorov. Kiev, Gostekhzdat USSR, 1962.
157 p. (MIRA 15:11)
(Television—Maintenance and repair)

SAVANCHUK, V.A., inzh.; ALEKSEYEV, K.A., inzh.

Videc telephone. Vest. sviazi 22 no.4:13-14 Ap '62.

(MIRA 15:4)

(Telephone)

ALEKSEYEV, Konstantin Alekseyevich; ORLOV, Aleksandr Ivanovich;
SAVANCHUK, Vladimir Aleksandrovich [Savanchuk, V.O.];
PISARENKO, M.G., red.; [Pysarenko, M.H.], red.;
STARODUB, T.O., tekhn. red.

[Manual for rural telecommunication workers] Posibnyk sil'-
skoho zv'iazkivtsia. Vyd. 2., perer. ta dop. Kyiv, Derzh-
tekhvydav URSR, 1962. 438 p. (MIRA 16:4)
(Telecommunication--Handbooks, manuals, etc.)
(Electric engineering--Handbooks, manuals, etc.)

ALEKSEYEV, K.A.

The television center of Kiev has won the right to be called a
"Collective of communist labor." Vest. sviazi 23 no.5:27-29
My '63. (MIRA 17:4)

1. Nachal'nik Kiyevskogo televizionnogo tsentra.

ALEKSEYEV, K.A., inzh.; SAVANCHUK, V.A., inzh.

Central control room of the Kiev television center. Vest.
sviazi 23 no.6:14-16 Je '63. (MIRA 16:8)

ALEKSEYEV, K.A.

Volunteer design bureau in the television center of Kiev. Vest.
sviazi 24 no.7:30-31 J1 '64. (MIRA 17:9)

1. Nachal'nik Kiyevskogo televizionnogo tsentra.

ALEKSEYEV, K.A.; BUROVA, L.L.

Properties of manganin resistance manometers. Trudy inst. Kom. stand.
mer i izm. prib. no. 75:36-43 '64. (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy.

ALEKSEYEV, K.A.; ATANOV, Yu.A.; BUROVA, I.I.

New method for artificial aging of manganin manometers. Trudy inst.
Kom.stand.mer i izm.prib. no.75:44-46 '64.

(MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy Institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy.

ALEKSEYEV, K.A.; BUROVA, L.L.; IVANOVA, Ye.M.

Effect of high-temperature pulsed annealing on the stability of readings and other characteristics of manganin manometers. Trudy inst.Kom.stand.mer i izm.prib. no.75:47-50 '64.

(MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy.

ALEKSEYEV, K.A.

Temperature conditions in the chamber of a manganin manometer during its calibration. Trudy inst.Kom.stand. ser 1 izm.prib. no.75:51-5/ '64. (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy.

ALEKSEYEV, K.A.; BORZUNOV, V.A.; SEMIN, V.P.; SEKOYAN, S.S.

Units and parts of high-pressure equipment. Trudy inst.Kom.stand.
mer i izm.prib. no.75:151-159 '64. (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy.

L 2520-66 RWT(m)/ETC/ENG(m)/ENP(t)/ENP(b) IJP(e) RBN/jm
 ACCESSION NR: AP5014581 UR/0161/65/007/006/1767/1789

AUTHOR: Aleksyev, K. A.

TITLE: Dependence of the melting temperature of selenium on the pressure

SOURCE: Fizika tverdogo tela, v. 7, no. 6, 1965, 1767-1769

TOPIC TAGS: selenium, melting point, pressure dependence, temperature measurement

ABSTRACT: The author investigated the pressure dependence of the melting temperature of selenium by an internal heating method which made it possible to obtain pressures up to 14,000 kg/cm². The melting point was determined by measuring the electric resistivity, the thermal emf, and the thermal effect. The temperatures were measured with thermocouples, and allowance was made for the effect of the pressure on the readings of the thermocouple. The results of the measurements were compared with earlier work by S. E. Babb (J. Chem. Phys. v. 37, 922, 1962), which were made at lower pressures and temperatures. The results agree within the limits of error. Orig. art. has: 2 figures.

Card 1/2

L 2520-66

ACCESSION NR: AP5014581

ASSOCIATION: Nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh
i radiotekhnicheskikh izmereniy GKSM i MP SSSR (Scientific Research Institute
of Physicotechnical and Radiotechnical Measurements, GKSM and IP SSSR)

SUBMITTED: 09Jan65

ENCL: 00

SUB CODE: TD, MM

NR REF SOV: 000

OTHER: 003



Card

2/2

ALEKSEYEV, K., kand.tekhn,nauk.

Operation of turbojet engines in winter. Grazhd. av. 12 no.12:21-23
D '55. (MIRA 11:6)

(Airplanes--Turbojet engines)

Handwritten: 1-1-1, 1-1-1
POPKOV, Solomon L'vovich; GERASIMOV, K.M., inzh., retsenzent; KOZHEUROV,
Ye.I., kand. tekhn. nauk, retsenzent; ALEKSEYEV, K.B., kand. tekhn.
nauk, red.; PETROVA, I.A., red. izd-va; ROZHIN, V.P., tekhn. red.

[Principles of the electric drive servomechanism] Osnovy sledia-
shchego elektroprivoda. Izd.2., perer. i dop. Moskva, Gos. izd-vo
obor. promyshl., 1958. 362 p. (MIRA 11:8)
(Servomechanisms)

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S/144/60/000/009/003/007
E041/E135

AUTHORS: Aleksayev, K.B. and Voskresenskiy, V.V.
(Candidates of Technical Sciences)

TITLE: Increasing the Accuracy of Stabilizing Systems

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Elektromekhanika, 1960, No. 9, pp 62-72

TEXT: A frequently occurring practical problem is that of maintaining or altering the position of a massive object mounted on a vibrating support. Direct stabilization is of limited use when the moment of inertia of the object is large. Indirect means are usually inaccurate but the present proposals give better results. The basic concepts are due to Academician V.S. Kulebakin. Fig. 1 shows the main features of a stabilized platform with an electrohydraulic actuator. The pick-offs measure absolute angle (1) and absolute velocity (3). The control valve 4 controls the flow of oil to the torque motor 5. The vibration input to the support is represented by $\alpha(t) = \alpha_{\max} \sin \omega_0 t$, where α_{\max} is the amplitude and ω_0 the circular frequency of oscillation. The operation form of the complete system equation is

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E041/E135

Increasing the Accuracy of Stabilizing Systems

$$M_c(p) + I_0 p^2 \alpha = \frac{1}{k_0} (T_0 p + 1) p \beta \quad (4)$$

where M_c is the stabilizing torque, I_0 the moment of inertia about the axis of rotation, $F = 1/k_0$ is the coefficient of viscous friction in the relative motion, β is the angular displacement relative to the base. Fig. 2 is a block diagram of the control system. The advantage of the hydraulic actuator is its low inertia and friction. The error transfer function is

$$E(p) = \frac{\theta(p)}{\alpha(p)} = \frac{(b_0 p^4 + b_1 p^3 + b_2 p^2 + b_3 p + b_4) p}{a_0 p^5 + a_1 p^4 + a_2 p^3 + a_3 p^2 + a_4 p + a_5} \quad (5)$$

It will be seen from the values of the a 's and b 's that the inertia and drive torques have a similar influence on the choice of the poles in the transfer function but have different effects on the choice of zeros. The accuracy of stabilization depends on the value of a_5 . A simplified form of Eq. (5), neglecting T and ξ is:

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Increasing the Accuracy of Stabilizing Systems

$$E(p) = \frac{T_{\Pi} \cdot T_1 \cdot p^3 + (T_{\Pi} + T_1)p^2 + p}{T_0 \cdot T_1 \cdot p^3 + (T_0 + T_1)p^2 + (1 + \mu K)p + K} \quad (6)$$

where $K = a_5$ and μ is the ratio of the angle and velocity pick-off sensitivities. If the denominator of Eq. (6) is put in the Vyshnegradskiy form of Eq. (8) then $A = 2.5$, $B = 3$ for quick damping of the transient with no overshoot. If it is assumed that $\mu \gg 2\xi T$ the transfer function for the open loop is Eq. (17). The maximum attainable value of K , with 30° phase margin may be found from Eq. (18). Fig. 3 shows both K and ω_c , the cut-off circular frequency, versus T_0 . As T_0 increases ω_c reaches an asymptotic value of 60 sec^{-1} . The fall-off in gain as T_0 falls shows the difficulty of accurately stabilizing a low-inertia object. Fig. 4 shows the dependence between the amplitude of the characteristic of the error transfer function, Eq. (6), and the ratio of the moments of inertia of drive and object for $\omega = 1 \text{ sec}^{-1}$. As the ratio increases the dependence of stabilization error upon it becomes less. When $\omega > 5 \text{ sec}^{-1}$ the

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effect is different, as evidenced by Fig. 5, where frequency is the independent variable and four values of ratio are taken. Fig. 6 shows how an additional feed, through $W^*(p)$, of the input disturbance could avoid stabilization error. The modified transfer function is

$$E(p) = \frac{\theta(p)}{\alpha(p)} = \frac{T_F T_1 p^3 + (T_F + T_1) p^2 + p - K k_1 W^*(p)}{T_O T_1 p^3 + (T_O + T_1) p^2 + (1 + \mu K) + K} \quad (23)$$

The denominator is the same as before. The condition for zero error is

$$W^*(p) = \frac{T_F T_1 p^3 + (T_F + T_1) p^2 + p}{k_O \cdot k_1} = \frac{p(T_F \cdot p + 1)(T_1 p + 1)}{k_O \cdot k_1} \quad (24)$$

This condition is difficult to satisfy because: 1) there is no perfect differentiating circuit; 2) the system constants appearing in the expression are in fact slow variables. Experiments have been carried out, however, using

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$$W_g^x(p) = \frac{k_g \cdot p}{T_p^2 + 2\zeta T_p + 1} \quad (25)$$

Fig. 7 shows the resulting error function for three values of k_g .
Fig. 8 shows oscillograms of stabilization error with (6), and without (a), the additional correction. It is shown that for a sinusoidal disturbance of the support the simple form of correction can be adequately designed.
There are 8 figures and 5 Soviet references.

ASSOCIATION: Moskovskiy stanko-instrumental'nyy institut
(Moscow Institute of Machine Tools and Instruments)
(Alekseyev, K.B.)

Nauchnyy sotrudnik, Vsesoyuznyy elektrotekhnicheskii
institut (All Union Electrical Engineering Institute)
(Voskresenskiy, V.V.)

Card 5/5

SUBMITTED: April 9, 1960

ARG/EO-2/EWG(j)/TWA(k)/EWT(d)/FBD/FSF(h)/FSS-2/EWG(f)/EWT(i)/EWP(g)

ACCESSION NF AMT 11-77

[illegible]

miss TAGS; space vehicle, missile control

atmosphere, ρ or ρ_0 is intended for a unit

L 23572-

ACCESSION NO. AM.001-77

specializing in automatic control. It can be used as a textbook for students and graduate students.

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Ch. III. Measuring instruments -- 11

Ch. IV. Control systems -- 11

Ch. V. Control systems -- 11

Section 3. Principles of building and studying control systems

Ch. VII. Control systems -- 26

Ch. VIII. Study of control systems with the help of a computer -- 26

Ch. IX. Study of control systems with identification analysis -- 26

Belenik, V. G. (Moscow)

TITLE: Use of magnetic torque for the control of orientation of

SOURCE: Inzhenernyy zhurnal, v. 4, no. 4, 1978, 426-428

TOPIC TAGS: magnetic torque, satellite orientation, magnetic torquing, attitude stabilization, Earth, attitude control, Earth, attitude control

The use of magnetic torque for the control of orientation of

satellites is one of the most effective methods of attitude control

of satellites in Earth orbit. The use of magnetic torque for the control of orientation of

ACCESSION NR: AFR 100

ENCLOSURE

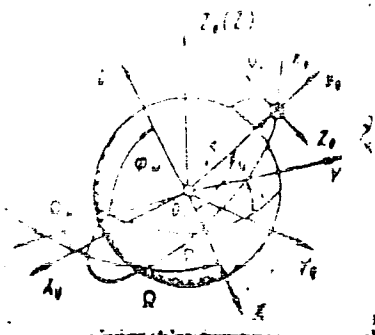


Fig. 1. Orbital geometry

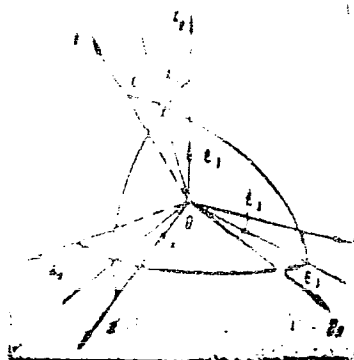


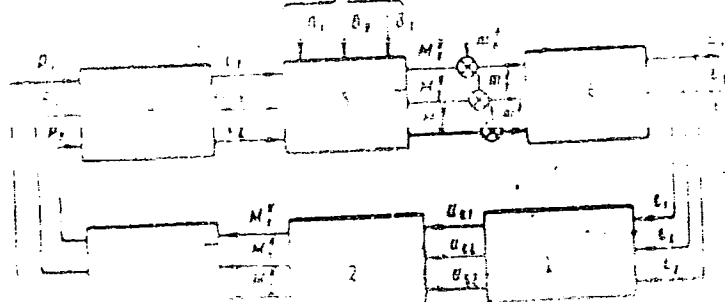
Fig. 2. Coordinate system

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16029-65
ACCESSION NR: AP4049570

ENCLOSURE: 02

Earth's Magnetic Field



1 - measuring device;
2 - computer; 3 - com-
puter; 4 - current
generator; 5 - mag-
netic coils; 6 - con-
trolled variable.

PETROV, B.N., akademik, otv. red.; ALEKSEYEV, K.B., red.

[Adaptive control systems] Samonastraivaiushchiesia sistemy. Moskva, Nauka, 1964. 290 p. (MIRA 18:8)

1. International Federation of Automatic Control.

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Dissertation: "Rational Type of Flax-Processing Factory Based on New Methods for Primary Flax Treatment." Moscow Textile Inst, 4 Jul 47.

SO: Vechernyaya Moskva, Jul, 1947 (Project #17836)

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Linen Interweaving." Dr Tech Sci, Moscow Textile Inst, 16 Dec 54.
(VM, 3 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

ALEKSHYEV, K.G.; SOKOLOV, S.I., retsentsent; SOKOLOVA, V.Ya., redaktor;
MEDVEDEV-VDMEDENKO, L.Ya., tekhnicheskii redaktor

[Design and maintenance of warp winding machines in the cotton industry] Ustroistvo i obsluzhivanie osnovomotal'nykh mashin khlochatobumazhnogo proizvodstva. Izd. 2-e ispr. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1954. 107 p. (MLRA 8:4)
(Cotton machinery)

ALEKSEYEV, K.G., kandidat tekhnicheskikh nauk

New developments in weaving machinery. Tekst.prom.15 no.10:63-
66 0 '55. (MLRA 8:12)

(Looms)

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Causes for the formation of reed marks. Tekst. prom. 17 no.4:32-34
Ap '57. (MLBA 10:4)

(Weaving)

ALEKSEYEV, K.G., kand. tekhn. nauk.

Type of high speed looms. Tekst. prom. 17 no.8:29-31 Ag '57.
(Looms) (MLRA 10:9)

ALEKSEYEV, K.G.; ZHIVOV, K.I.; TOPILIN, A.P.; LYUBIMOVA, N.S., kand.
tekhn.nauk, red.; SHIMELIOVICH, Yu.B., red.; SUNGUROV, V.S.,
tekhn.red.

[Basic characteristics of the new AT-100-5, ATK-100-M and
AT-120-5 looms] Osnovnye osobennosti novykh avtomaticheskikh
tkatskikh stankov AT-100-5, ATK-100-M i AT-120-5. Moskva,
Biuro tekhn.informatsii legkoi promyshl., 1958. 44 p.

(MIRA 13:12)

1. Moscow. Vsesoyuznaya promyshlennaya vystavka. Pavil'on
"Khlopok."

(Looms)

ALEKSEYEV, Konstantin Grigor'yevich,; NAUMOV, V.A., retsenzent,; AKSENOVA,
I.I., red.; KNAKVIN, N.T., tekhn.red.

[Investigating the process of the making of cotton fabric with
a linen weave] Issledovanie protsessy formirovaniia khlopchato-
bumazhnoi tkani polotnianogo perepletentia. Moskva, Gos. nauchno-
tekhn. izd-vo lit-ry po legkoi promyshl., 1958. 144 p. (MIRA 11:12)
(Cotton weaving)

ALEKSEYEV, K.G., kand. tekhn. nauk

Extensive modernization of weaving equipment. Tekst. prom. 19
no.11:35-39 N '59. (MIRA 13:2)
(Looms)

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Methodology for determining the parameters of the forming process
of linen weave cotton fabrics by the parameters of their structure.
Nauch.-issl.trudy TSNIKHBI '60 [publ. '62]:88-101.

(MIRA 18:2)

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1. Zaveduyushchiy laboratoriyey proyektirovaniya
tkatskikh stankov Tsentral'nogo nauchno-issledovatel'skogo
instituta khlopchatobumazhnoy promyshlennosti.
(Weaving)

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Experimental checking of the calculations of warp tension and of the stresses in the filling by the parameters of the fabric structure. Tekst.prom. 22 no.11:40-42 N '62. (MIRA 15:11)

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(Weaving)

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Experimental testing of the tension of the warp and strains in the weft in the manufacture of fabrics with various pick parameters. Tekst.prom. 22 no.12:34-37 D '62. (MIRA 16:1)

1. Zaveduyushchiy laboratoriyey proyektirovaniya tkatskogo stanka Tsentral'nogo nauchno-issledovatel'skogo instituta khlopatobumazhnoy promyshlennosti.
(Weaving)

ALLEKSEYEV, Konstantin Grigor'yevich; LYUBIMOV, N.S., kand. tekhn.
nauk, retsenzent; MEN'SHENINA, V.A., red.

[Working principles and maintenance of the warping
machines for cotton manufacture] Ustroistvo i obsluzhi-
vanie snoval'nykh mashin khlopchatobumaznogo proizvod-
stva. Izd.2., perer. Moskva, Izd-vo "Legkaia industriia,"
1964. 179 p. (MIRA 17:8)

S/123/61/000/001/001/015
A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1961, No. 1, pp. 3-4,
1A20

AUTHOR: Alekseyev, K. I.

TITLE: Certain Problems in the Methods of Planning of Specialization and
Cooperation in the District Profile Exemplified for Mechanical
Engineering

PERIODICAL: V sb.: "Spetsializatsiya i kooperirovaniye prom-sti". Moscow,
Gosplanizdat, 1960, pp. 234-252

TEXT: It is suggested to plan the specialization and cooperation in 3
stages: 1) separately for each enterprise; 2) for the economical administrative
district; 3) for the large-scale economical district, the Union republic and the
Soviet Union. The specialization characteristics are the following: the techno-
logical uniformity of the product output; its characteristic with respect to the
uniformity degree of the structural shapes, the materials, and the precision; the
features of machining applied favoring the introduction of an advanced technology,
the increase in labor efficiency and decrease of the production cost. Prior to
developing the plan, the present state of specialization and cooperation must be
Card 1/3

S/123/61/000/001/001/015
A005/A001

Certain Problems in the Methods of Planning of Specialization and Cooperation in the District Profile Exemplified for Mechanical Engineering

investigated in the economical district under consideration, the branch structure of the industry and mechanical engineering, the status of the district in the all-union division of labor and the conformity of the industry structure with the necessities of the district. Moreover, the correspondence must be ascertained of the shop structure and the equipment composition to the adopted enterprise specialization, and the state of the preparing shops. The conclusion stages are the following: the elucidation of the state of detailed specialization in the district, the development of the nomenclature of the technologically uniform assemblies of the general mechanical engineering, the study of the balance of production and requirement of components and blanks, the study of the main production communications and their improvement possibilities. When developing in detail the specialization, the sovnarkhozes must take into account the profitability of the production and must not tend under any conditions, to develop for themselves the production of the majority of assemblies and components of general mechanical engineering. The district complex of specialized productions must embrace 3 groups of enterprises: 1) plants producing ready-made machines or special assemblies, components and intermediate products; 2) plants serving to the

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S/123/61/000/001/001/015
A005/A001

Certain Problems in the Methods of Planning of Specialization and Cooperation in the District Profile Exemplified for Mechanical Engineering

technical preparation of production (preparation of tools, patterns, dies); 3) plants serving to the auxiliary functions of mechanical engineering works (production of spare parts, containers, etc.). Such a planning of the specialization will favor the further improvement of production and its automation. Examples are given from the experience of the sovmarkhozes of the Ural. - There are 4 tables.

A. Kokhtev ✓

Translator's note: This is the full translation of the original Russian abstract.

Card 3/3

ALEKSEYEV, K. I.

ALEKSEYEV, K. I., inzh.

Thermal design of cast iron feedwater economizers for DKVR boilers.
Atom. energ. 20 no.8:133-41. Aug '65.

(MIRA 18:3)

~~ALEKSEYEV~~, K.O.; ORLOV, O.I.; SAVANCHUK, V.O.; PISARENKO, M., redaktor;
PATSAIYUK, P., tekhnicheskii redaktor

[Manual for rural communication workers] Posibnik sil's'koho
sv'iazivtsia. Kyiv, Derzh.vyd-vo tekhn.lit-ry URSR, 1956. 350 p.
(Telecommunications) (MIRA 10:7)

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"An Apparatus for Determining the Pressure of Ground Water on the Facing of a Tunnel," *Gidrotekh. Stroi.*, No 12, 1949.

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USSR/Engineering - Construction

Oct 50

"Forcing Mortar Behind the Concrete Lining of a Tunnel Arch," K. V. Alekseyev, Engr

"Gidrotekh Stroi" No 10, pp 22

Describes procedure for feed and discharge tunnels. Operations conducted in 2-stages using mortar pumps of C-210A of Sokolov-Sokolovskiy syst with productive capacity of 4-6 cu m/hr. Secondary pumping used to eliminate gap caused by contraction of mortar after initial pumping. Contraction amounted to 2.2% for mortar on pozzuolana cement and to 3.4% for mixts on Portland cement.

182T58

ALEKSEYEV, K. V.

USSR/Engineering - Hydraulic Engineering, Dams

Mar 51

"Erection of a Dam by Loading Morainic Rocks Into Water," A. F. Vasil'yev, K. V. Alekseyev, Engineers

"Gidrotekh Stroi" No 3, pp 11-13

New Method is based on self-packing capacity of morainic grounds in water. Cross section of dam is divided along its height into several levels 3 - 4 m each. In the course of filling, each level is surrounded by small embankment and water is pumped into pit creating a pond 2 - 3 m deep. This pond is filled out with morainic rocks. The method, decreasing cost of 1 cu m of moraine in the body of dam by 75%, permits execution of work during rains and in winter at temps up to -15 to -20°C, using just a small addnl amt of labor for removing ice from the pond surface.

PA 197113

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4. Plaster

7. New setting inhibitor for plaster solutions. Stroitel'stvo No. 1, 1953.

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

ALEKSEYEV, K. V.

AID P - 3208

Subject : USSR/Hydraulic Engineering

Card 1/1 Pub. 35 - 12/19

Author : Alekseyev, K. V. Eng.

Title : On using lap butt-welded parts

Periodical : Gidr. stroi., 5, 40-41, 1955

Abstract : The article is a suggestion from a reader of the magazine, discussing the advantages and disadvantages of using lap welding of reinforcement parts. A table gives data on tests made with lap-welded parts on the Gor'kiy Power Development. Two diagrams.

Institution : None

Submitted : No date

ALEKSEYEV, K.V.

AID P - 3382

Subject : USSR/Hydr Eng
Card 1/1 Pub. 35 - 13/16
Author : Alekseyev, K. V., Eng.
Title : Savings in cement by adding clay and dust-size particles of sand
Periodical : Gidr. stroi., 6, 42-43, Je 1955
Abstract : The author suggests the addition of very small ground particles of sand to the most widely used cement of the 400 type and mentions that at the Gor'kiy Hydro Power Plant such aggregates are used with success.
Institution : None
Submitted : No date

Alekseyev, K. V.

AID P - 3997

Subject : USSR/Hydr. Eng.

Card 1/1 Pub. 35 - 4/18

Author : Alekseyev, K. V., Eng.

Title : Experience with concreting in winter conditions.

Periodical : Gidro.~~est~~roil., 8, 13-16, 1955

Abstract : The concreting done at the Gor'kiy Hydro Power Plant Construction for 4 years, under very severe winter conditions is described in detail. Five diagrams.

Institution : None

Submitted : No date

ALEKSEYEV, K.V., inzhner; LUKENBERG, Yu.S., inzhener.

Mechanization of concrete work in the construction of the Gor'kiy
State Electric Power Plant. Mekh.trud. rab. 9 no.2:5-10 F '55.
(Gorkiy—Hydroelectric power station) (MIRA 8:4)
(Concrete construction)

ALEKSEYEV, K. V. inzhener.

Processing the structural joints of large-sized blocks. Gidr.
stoi. 26 no.6:11-12 Je '57. (MIRA 10:7)
(Concrete blocks)

ALEKSEYEV, K.V.

ALEKSEYEV, K.V., inzh.

Calculating peripheral electric heating of concrete. Gidr.stroi.

26 no.9:13-17 S '57.

(MIRA 10:10)

(Concrete construction)

ALEKSEYEV, K.V., inzh.

Measures for preventing crack formation in concrete in constructing high-pressure gravity dams. Gidr.stroi. 30 no.1:
28-33 Ja '60. (MIRA 13:5)
(Dams) (Concrete construction)

ALEKSEYEV, K. V., inzh.

The hydraulic concrete of the dam of the Bratsk Hydroelectric
Power Station. Gidr. stroi. 33 no.12:13-18 D '62.
(MIRA 16:1)

(Bratsk Hydroelectric Power Station—Dams)
(Bratsk Hydroelectric Power Station—Concrete construction)

ALEKSEYEV, L., glavnyy inzhener zavoda.

Repairing automobile parts at the Irkutsk automobile repair plant
(MLRA 7:6)
no.2. Avt.transp. 32 no.2:27-28 F '54.
(Irkutsk--Automobile industry) (Automobile industry--Irkutsk)

ALEKSEYEV, L., komandir otdel'noy aviagruppy

The runners of Estonia. Grazhd. av. 21 no. 12:1-2 D '64.
(MIRA 18:12)

Alekseyev L.
ALEKSEYEV, L., inzh.

Processing line for viscous by-products. Mias. ind. SSSR 28 no.6:54
'57. (MIRA 11:1)

1. Vologodskiy zavod Myasomolmash.
(Packing houses---Equipment and supplies)