

I 10697-63 EWP(q)/EWT(m)/BDS--AFFTC/ASD---JD
ACCESSION NR: AP3002536

S/0075/63/018/006/0739/0712'

AUTHOR: Goroshchenko, Ya. G.; Volkova, M. I.; Babkin, A. G.; Py*ryayev, N. K. 56

TITLE: Quantitative gravimetric determination of niobium and tantalum after their extraction with cyclohexane 27 27

SOURCE: Zhurnal analiticheskoy khimii, v. 18, no. 6, 1963, 739-742

TOPIC TAGS: tantalum gravimetric determination, niobium gravimetric determination, cyclohexane

ABSTRACT: A relatively rapid gravimetric method for the determination of niobium and tantalum has been developed. The method is based on the extraction of these metals with cyclohexane from an aqueous solution containing 400 g/l of H sub 2 SO sub 4, 200 g/l of (NH sub 4) sub 2 SO sub 4 and 100 g/l of HF. Cyclohexane is a specific extractant for niobium and tantalum and especially when ammonium sulfate is added to the solution. An aqueous solution containing about 100 g/l of H sub 2 SO sub 4 and 50 g/l (NH sub 4) sub 2 SO sub 4 will selectively extract niobium, thus gives the possibility of separating niobium from tantalum after their initial extraction with cyclohexane. According to the spectral analyses the elements Al, Y, Zr, Hf, Pb, Th, V, As, Bi, Cr, Mo, W, U, Mn sup +2 and Fe in fair amounts are

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not extracted with cyclohexane and therefore do not interfere. Ti, Sn and Sb are partially extracted with cyclohexane. MnO sub 4 sup - extracts almost completely with cyclohexane and therefore it must be converted to the reduced state Mn sup +2 by addition of Na sub 2 S sub 2 O sub 4 . 2H sub 2 O to render it inactive. The P sub 2 O sub 5 in quantities larger than 50 mg also interferes. All experiments were checked against standard solutions. Orig. art. has: 3 tables.

ASSOCIATION: Kol'skiy filial AN SSSR, Apatity (Kola Branch, Academy of Sciences SSSR)

SUBMITTED: 03Aug62

DATE ACQ: 12Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 004

OTHER: 001

ja/S

Card 2/2

GOROSHCHENKO, Ya.G.; UDE, E.O.; KARPENKO, O.A.

Chlorination of sphene concentrates by chlorine gas without a reducing agent. Titan i ego splavy no.9:123-126 '63. (MIRA 16:9)
(Titanium ores) (Chlorination)

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~, Ya.G.; UDE, E.O.; KARPENKO, O.A.

Chlorination of sphene concentrates by chlorine gas with a reducing agent. Titan i ego splavy no.9:127-135 '63. (MIRA 16:9)
(Titanium ores) (Chlorination)

GOROSHCHENKO, Ya.G.; KONDRATOVICH, N.M.

Investigating the decomposition of sphene concentrates by sulfuric acid for the purpose of obtaining titanium sulfate solutions with a low acidity factor. Titan i ego splavy no.9:149-157 '63. (MIRA 16:9)

(Sphene--Analysis) (Titanium sulfate)

GOROSHCHENKO, Ya.G.; MAYOROV, V.G.; FEDYUSHKINA, S.A.

Salting out double titanyl and ammonium sulfates from sulfuric acid solutions containing iron. Titan i ego splavy no.9:158-161 '63.

(MIRA 16:9)

(Titanyl ammonium sulfate)
(Hydrometallurgy)

GOROSHCHENKO, Ya.G.; MAYOROV, V.G.; VOROBAYCHIK, A.I.; CHELPANOV, L.G.

Rotary-ring type furnace for the sulfuration of titanium-bearing
materials. Titan i ego splavy no.9:162-165 '63. (MIRA 16:9)
(Sulfuration—Equipment and supplies)
(Titanium ores)

GOROSHCHENKO, Ya.G., *otv. red.*

[Autoclave methods of processing mineral raw materials]
Avtoklavnye metody pererabotki mineral'nogo syr'ia. Mo-
skva, Izd-vo "Nauka," 1964. 39 p. (MIRA 17:8)

1. Akademiya nauk SSSR. Kol'skiy filial, Kirovsk. Institut
khimii i tekhnologii redkikh elementov i mineral'nogo syr'ya.

GITMAN, Yevgeniya Borisovna; GOROSHCHENKO, Ya.G., doktor khim.
nauk, otv. red.; BYCHKOVA, R.I., red.

[Electrochemistry of titanium in fused salts; an annotated bibliography] Elektrokhemiiia titana v rasplavlennykh soliakh; annotirovannaiabibliografiia. Kiev, Naukova dumka, 1965. 96 p. (MIRA 18:3)

GOROSHCHENKO, Yakov Gavrilovich; SHEF, I.A., prof., doktor khim.
nauk, otv. red.; POKROVSKAYA, Z.S., red.

[Chemistry of niobium and tantalum] Khimiia niobiia i
tantala. Kiev, Naukova dumka, 1965. 482 p.
(MIRA 18:8)

COROSHCHENKO, Ya.G.; SIKORSKAYA, E.K.

System FeO - SO₃ - H₂O at 25°C. Zhur.neorg.khim. 10 no.4:950-954
Ap '65. (MIRA 18:6)

GOROSHCHENKO, Ya.G.; ANDREYEVA, M.I.

Tantalum sulfates. Zhur.neorg.khim. 10 no.4:955-960 Ap '65.
(MIRA 18:6)

L 10457-66

ACC NR: AP6000290

SOURCE CODE: UR/0078/65/010/009/2156/2162

AUTHOR: Goroghenko, Ya. G.; Spasibenko, T.P.

ORG: none

29

TITLE: The system HfO₂-HCl-H₂O

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 9, 1965, 2156-2162

TOPIC TAGS: hafnium compound, zirconium compound, hafnium oxide, hydrochloric acid, solubility, absorption spectrum, absorption band, chloride

ABSTRACT: The system HfO₂-HCl-H₂O was studied by the solubility method in the range of 0 - 50C. The presence of the following three equilibrium solid phases was established: HfO₂·HCl·yH₂O and the two crystal hydrates HfOCl₂·8H₂O and HfOCl₂·3H₂O. The solubility diagrams of the HfO₂-HCl-H₂O and ZrO₂-HCl-H₂O systems are very similar; however, at HCl concentrations above 30%, hafnyl chloride is less soluble than zirconyl chloride. The absorption spectra of hafnyl chloride solutions in hydrochloric acid differ from the absorption spectra of zirconyl chloride in that they have no absorption band with a maximum at 315 nm and are displaced toward the shorter wavelengths. The difference in the absorption of light by solutions of zirconium and hafnium in hydrochloric acid can be utilized for the spectrophotometric determination of zirconium impurities in hafnium. Orig. art. has: 4 figures and 4 tables.

SUB CODE: 07⁹ SUBM DATE: 29Feb64 / ORIG REF: 004 / OTH REF: '006

Card 1/1 pu

UDC: 541.123.32+546.832.4'131-31

2

L 16790-66 EWP(e)/EWT(m) .WH

ACC NR: AP6002541

(A)

SOURCE CODE: UR/0286/65/000/023/0041/0042

AUTHORS: Rogozhin, Yu. V.; Syritskaya, Z. M.; Ushanova, A. V.; Mazurov, M. K.; Zadorozhnyy, V. K.; Ignat'yev, O. S.; Goroshchenko, Ya. G.

ORG: none

TITLE: A method for preparing titanium-containing enamels and glassy crystalline materials. Class 32, No. 17663

57
B

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 41-42

TOPIC TAGS: titanium, enamel, sphene, perovskite, crystalline matter, specialized coating, ceramic coating

ABSTRACT: This Author Certificate presents a method for preparing titanium-containing enamels and glassy crystalline materials. To broaden the base of raw materials and to improve the physico-chemical properties of enamels and glassy crystalline material, the minerals sphene and perovskite are introduced into the original charge.

SUB CODE: 07, 13/

SUBM DATE: 09Aug62

2

Card 1/1

7195

UDC: 666.293.5

ACC NR: AN5025164

BOOK EXPLOITATION

UR

Goroshchenko, Yakov Gavrilovich

27
Chemistry of niobium and tantalum (Khimiya niobiya i tantala), Kiev, Izd-vo "Naukova dumka," 1965, 482 p. illus., tables, diagm., graph, biblio. 1,800 copied printed. (Head of title: Akademiya nauk Ukrainskoy SSR. Institute obshchey i neorganicheskoy khimii)

TOPIC TAGS: niobium, tantalum, ligand, complex compound

PURPOSE AND COVERAGE: This monograph presents the modern state of niobium and tantalum chemistry based on a survey of world literature from the time of their discovery to the end of the year 1963, as well as the author's own research. The author acknowledges the contributions by Sheka, I.A. (Professor, Doctor of Chemical Sciences); Lapitskiy, A.V. (Doctor of Chemical Sciences); Golub, A.M. (Professor, Doctor of Chemical Sciences).

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SUB CODE: 11,07/ SUBM DATE: 23Apr65/ ORIG REF: 697/ OTH REF: 999

Card 3/3

GOROSHCHENKO, Yu.L.

"Research on the genetic significance of grafting between
genotypically different plants" [in German]. Helmut Bohme.
Reviewed by IU.L.Goroshchenko. Bot.zhur.40 no.3:434-437
My-Je '55. (MLRA 8:10)

1. Botanicheskiy institut imeni V.L.Komarova Akademii nauk
SSSR, Leningrad.
(Bohme, Helmut) (Hybridisation, Vegetable)

VOL'FENZON, I.G.; GOROSHCHENKO, Yu.L.

Conference on problems of cytology, histology, and embryology
in Riga. TSitologia 1 no.2:253-255 Mr-Apr '59.

(MIRA 12:9)

(HISTOLOGY)

BAIASHOV, Yu.S.; GOROSHECHENKO, Yu.I.

Development and functioning of the male genital system in argasid ticks. Paras.sbor. 19:16-25 '60. (MIRA 13:8)

1. Zoologicheskii institut i Institut tsitologii Akademii nauk SSSR.

(Ticks) (Spermatogenesis in animals)

VERENINOV, A.A.; GOROSHCHENKO, Yu.L.; YUDIN, A.L.

Coordination meeting on the "Principal problems in cytology."

TSitologia 2 no.1:103-112 Ja-F '60.

(CYTOLOGY)

(MIRA 13:5)

GOROSHCHENKO, Yu.,L.; MASHANSKIY, V.F.

Comparative electron microscope study of the structure of spermatocyte
nucleoli in argasid ticks. Tsitologiya 3 no.4:389-395 JI-Ag '61.
(MIRA 14:8)

1. Laboratoriya morfologii kletki Instituta tsitologii AN SSSR,
Leningrad.

(CELL NUCLEI)

(ELECTRON MICROSCOPY)

GOROSHCKENK, Yu. L.

"Dynamics of Nuclear and Cytoplasmic DNA during the Oogenesis of Argasid Ticks." pp. 25

Institute of Cytology AS USSR Laboratory of Cell Morphology

II Nauchnaya Konferentsiya Instituta Tsitologii AN USSR. Tezisy Dokladov
(Second Scientific Conference of the Institute of Cytology of the Academy
of Sciences USSR, Abstracts of Reports), Leningrad, 1962 88 pp.

JPRS 20,634

GOROSHCHENKO, Yu. I.

Karyotypes of argasid ticks in the U.S.S.R. and their taxonomy.
TSitologiya 4 no.2:137-149 Mr-Apr '62. (MIRA 15:8)

1. Laboratoriya morfologii ~~kletki~~ Instituta tsitologii AN SSSR,
Leningrad.

(TICKS) (CHROMOSOMES)

GOROSHCHENKO, Yu.L.

Karyological foundation of the systematic subdivision of the ticks belonging to the genus *Argas* Latr. (Ixodoidea, Argasidae) of the "Reflexus" group. Zool. zhur. 41 no.3:358-363 Mr '62.

(MIRA 15:3)

1. Laboratory of Cell Morphology, Institute of Cytology, Academy of Sciences of the U.S.S.R., Leningrad.

(TICKS)

GOROSHCHENKO, Yu.L.

Chromosome complex of *Carios vespertilionis* Latr. (Ixodoidea, Argasidae) and the problem of its generic classification. Dokl. AN SSSR 144 no.3:665-668 My '62. (MIRA 15:5)

1. Institut tsitologii AN SSSR. Predstavleno akademikom K.I. Skryabinym.

(Ticks)

DORFMAN, M.D.; ROGACHEV, D.L.; GOROSHCHENKO, Z.I.; USPENSKAYA, Ye.I.

Canacite, a new mineral. Trudy Min.muz. no.9:158-166 '59.
(MIRA 12:6)

(Khibiny Mountains--Calcium silicates)

KUPRIYANOVA, I.I.; VOLKOVA, M.I.; GOROSHCHENKO, Z.I.

Rare earth minerals of a molybdenum deposit in the European part
of the U.S.S.R. Trudy Min. muz. no.15:123-133 '64.

(MIRA 17:11)

L 36193-66 EWT(1)/T WR
ACC NR: AP6011447

SOURCE CODE: UR/0109/66/011/004/0662/0667

AUTHOR: Goroshchenya, A. B.

ORG: none

TITLE: Using vector potential for studying flat spiral logarithmic antennas

SOURCE: Radiotekhnika i elektronika, v. 11, no. 4, 1966, 662-667

TOPIC TAGS: spiral antenna, logarithmic antenna, antenna theory

ABSTRACT: If the flat-spiral log antenna and its excitors are axisymmetrical, it is more convenient to describe its field by one vector-potential component in suitable orthogonal coordinates than by combined Hertzian electric and magnetic vectors (B. R. S. Cheo et al., IRE Trans., 1961, AP-9, 6, 527). Integral formulas are set up for that vector-potential field component. These formulas are used for describing the antenna field in two cases: (1) Excitation of a spirally

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UDC: 621.396.677.45.001.5:517.9

L 36193-66

ACC NR: AP6011447

anisotropic plane ($a \rightarrow \infty$) by a vertical magnetic dipole and (2) Excitation of a flat-spiral antenna by a vertical electric dipole. "The author wishes to thank V. N. Kessenikh and V. G. Myshkin for their valuable comments." Orig. art. has: 2 figures and 35 formulas.

SUB CODE: 09 / SUBM DATE: 15Dec64 / ORIG REF: 006 / OTH REF: 001

Card 2/217LP

GOROSHCHENYA, K.I.; LIZOGUBOV, D.V.; NIKIFOROV, M.I.

Automatic control for a conditioned reflex chamber. Zhur.vys.nerv.
deiat. 11 no.3:561-565 My-Je '61. (MIRA 14:7)

1. Medical Institute, Ternopol.
(CONDITIONED RESPONSE) (PSYCHOLOGICAL APPARATUS)

L 31853-66

ACC NR: AP6021315

(N)

SOURCE CODE: UR/0390/65/028/005/0527/0530

AUTHOR: Goroshchenya, K. I.; Nikiforov, M. I.

ORG: Department of Pharmacology /headed by Prof. S. Ya. Anbuzov/, Military Medical Order of Lenin Academy im. S. M. Kirov, Leningrad (Kafedra farmakologii Voenno-meditsinskoy ordena Lenina akademii); Vinnitsa Medical Institute im. N. I. Pirogov (Vinnitskiy meditsinskiy institut)

TITLE: Assimilation of photostimulation rhythm in rabbits' ²²brain following extirpation of the frontal and precentral cortical regions done against the background of thiopentobarbital narcosis

SOURCE: Farmakologiya i toksikologiya, v. 28, no. 5, 1965, 527-530

TOPIC TAGS: brain, rabbit, cerebral cortex, EEG, pharmacology, nervous system drug

ABSTRACT: In the emergence of the central forms of depression the individual sections of the cerebral cortex large have definite value. However, the value of these regions of the cortex, particularly the frontal and precentral, has been studied quite little in the mechanisms of the central narcotic depression. Thus the task of this study was to investigate the electroencephalographic manifestations of barbiturate narcosis in rabbits after complete removal of the above cortical regions.

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UDC: 616.831.31-089.877-085.578.2-07;616.831-073.97

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ACC NR: AP6021315

Administration of thiopentobarbital in a dose of 40 mg/kg to intact rabbits and after removal of the 4, 6, and 12 cortical regions is accompanied by a short-term depression of the electroencephalographic response to photostimulation of varying frequency. This inhibition is more clearly expressed in intact animals than in those operated on.

Extirpation of the 4, 6, and 12 cortical regions in rabbits is accompanied by an increase in the electroencephalographic reaction to photostimulation in animals both in the state of wakefulness and especially against the background of thiopentobarbital-induced narcosis. The indicated increased reaction to photostimulation is expressed in a certain improved assimilation of the medium frequencies of photostimulation (5 cps) and marked extension of the assimilated frequency ranges in the direction of low (1 cps) and large (25 cps) photostimulation frequencies, usually difficult to assimilate by intact animals. [JPRS]

SUB OCDE: 06 / SUEM DATE: 20Jul64 / ORIG REF: 002 / OTH REF: 004

Card 2/2 JS

GOROSHCHENYA, K.I.; NIKIFOROV, M.I.

Assimilation of photostimulation rhythms in the brain of rabbits following the extirpation of the frontal and precentral cortical regions during thiopental anesthesia. Farm. i toks. 28 no.5:527-530 S-0 '65. (MIRA 18:12)

1. Kafedra farmakologii (zav. - prof. S.Ya.Arbutov) Voenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova, Leningrad, Vinnitskiy meditsinskiy institut imeni N.I.Pirogova. Submitted July 20, 1964.

GOROSHCHENYA, R.I.; KIRICHENKO, I.S.

Additional vertical feed unit for the 54-type Gleason gear-
shaping machines. Stan.i instr. 30 no.4:32 Ap '59.
(MIRA 12:6)

(Gear-cutting machines--Attachments)

GOROSHENIN, K.P.

Measures for bringing land under cultivation and tasks of soil
research in Siberia. Izv. AN SSSR. Ser.biol. no.4:393-400
Jl-Ag '57. (MLBA 10:8)

1. Sel'skokhozyaystvennyy institut im. S.M.Kirova, g. Omsk.
(SIBERIA, WESTERN--SOILS--RESEARCH)

GOROSHENKO, M. K., Engineer

"Investigation of the Operation of Dough-Kneading Machines." Sub 27 June 51,
Moscow Technological Inst of the Food Industry.

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

SO: Sum. No. 480, 9 May 55

GOROSHENKO, M.K.

History of the development of doughmixing machinery in Russia.
Trudy po ist.tekh. no.7:78-98 '54. (MLRA 7:7)
(Mixing machinery--History) (Bakers and bakeries--Equip-
ment and supplies)

GOROSHENKO, M.K.

High-intensity pneumatic-tube transportation of bulk products.
Khleb. i kond. prom. 1 no.2:42-44 # '57. (MIRA 10:8)

1. Vsesoyuznyy nauchnyy tekhnologicheskiy institut pishchevoy
promyshlennosti.
(Pneumatic-tube transportation)

GOROSHENKO, M.K.

Berlin conference on bakery problems. Khleb.i kond.prom. 1 no.8:46-47
Ag '57. (MIRA 10:8)

1.Vsesoyuznyy zaochnyy institut pishchevoy promyshlennosti.
(Berlin--Baking--Congresses)

GERNET, M.M., doktor tekhn.nauk, prof.; DIKIS, M.Ya., doktor tekhn.nauk, prof.; LUK'YANOV, V.V., doktor tekhn.nauk, prof. [deceased]; POPOV, V.I., doktor tekhn.nauk, prof.; SOKOLOV, A.Ya., doktor tekhn.nauk, prof.; SOKOLOV, V.I., doktor tekhn.nauk, prof.; SURKOV, V.D., doktor tekhn.nauk, prof.; BARANOVSKIY, N.V., kand.tekhn.nauk, dots.; BROYDO, B.Ye., kand.tekhn.nauk, dots.; BUZYKIN, N.A., kand.tekhn.nauk, dots.; GOROSHENKO, M.K., kand.tekhn.nauk, dots.; GORTINSKIY, V.V., kand.tekhn.nauk, dots.; GREBENYUK, S.M., kand.tekhn.nauk, dots.; GUS'KOV, K.P., kand.tekhn.nauk, dots.; DEMIDOV, A.R., kand.tekhn.nauk, dots.; ZHISLIN, Ya.M., kand.tekhn.nauk, dots.; KARPIN, Ye.B., kand.tekhn.nauk, dots.; KOSITSYN, I.A., kand. tekhn.nauk, dots. [deceased]; GEYSHTOR, V.S., kand.tekhn.nauk, dots.; MARSHALKIN, G.A., kand.tekhn.nauk, dots.; MOLDAVSKIY, G.Ye., kand.tekhn.nauk, dots.; ODESSKIY, D.A., kand. tekhn.nauk, dots.; PELEYEV, A.I., kand.tekhn.nauk, dots.; RUB, D.M., kand.tekhn.nauk, dots.; SKOBLO, D.I., kand.tekhn.nauk, dots.; SHUVALOV, V.N., kand.tekhn.nauk, dots.; KHEMEL'NITSKAYA, A.Z., red.; SOKOLOVA, I.A., tekhn. red.

[Principles of the design and construction of machinery and apparatus for the food industries] Osnovy rascheta i konstruirovaniia mashin i apparatov pishchevykh proizvodstv. Moskva, Pishchepromizdat, 1960.
741 p. (MIRA 14:12)

(Food industry—Equipment and supplies)

~~GOROSHENKO, Mikhail Konstantinovich;~~ NUDEL'MAN, G.E., inzh.,
retsenzenti SHMAIN, M.M., inzh., retsenzenti; ITSKOVICH,
Ya.S., inzh., spets. red.; PRITYKINA, L.A., red.; SOKOLOVA,
I.A., tekhn. red.

[Machines and machinery units for dough preparation] Mashiny
i agregaty dlia prigotovleniia testa. Moskva, Pishcheprom-
izdat, 1963. 147 p. (MIRA 16:8)
(Bakeries--Equipment and supplies)

GOROSHENKO, S.V.

Characteristics of the species of leguminous plants and their
condition in the pastures of the eastern part of Balkaria
(basins of Psygansu and Khaznidon Rivers). Uch. zap. AGU. Ser.
biol. nauk no. 2:11-19 '64 (MIRA 19:1)

GOROSHEN, A. G.

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nimentic organization...
with F. D. ...
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Applications of ...
and ...

L 29246-66

ACC NR: AP6019309

SOURCE CODE: UR/0102/65/000/003/0015/0018

AUTHOR: Horoshyn, O. I. -- Goroshin, O. I. (Khar'kov)

ORG: none

TITLE: Necessary condition for providing the stability margin of a two-loop invariant system without perturbation feedback

SOURCE: Avtomatyka, no. 3, 1965, 15-18

TOPIC TAGS: automatic control system, perturbation, control system stability

ABSTRACT: The demand to increase the dynamic accuracy of automatic control systems for objects of basic chemistry compels attention to invariant systems. Considering the fact that many perturbations acting on the object cannot always be measured, it is desirable to construct invariant systems without perturbation feedback.

Although absolute invariance in real systems cannot be realized because of the impossibility of completely accurate satisfaction of the invariant condition, in many cases, by the appropriate selection of the structure and parameters of the system, it can be approximated to completely invariant with the required degree of accuracy. This explains the practical value of the principle of invariance and its application in particular for objects of basic chemistry. In real systems, obviously, the condition for invariance must conform to the condition of stability.

To ensure a stability margin in an invariant system it is necessary that the power of the degenerated characteristic equation, derived from the initial

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L 29246-66

ACC NR: AF6019309

characteristic equation of the system for satisfaction of the invariant condition, equal the powers of the initial equation. Conversely, if the power of the degenerated characteristic equation is less than the power of the initial, the appearance of even small factors with a negative sign at a higher power of an independent change, possible during inaccurate satisfaction of the invariant conditions, will result in the loss of stability.

How to realize this condition in a system consisting of a number of sensing elements, amplifier and object is discussed. A description of such a system in which the stability condition has been realized has already been presented. Satisfaction of the absolute invariance condition in this system requires strong control over the derivatives of the regulated value. Further discussion involves how a necessary condition of stability (i.e., the power of the degenerated characteristic equation of an invariant system should be equal to the power of the initial characteristic equation) determines the form of the transfer functions of the links of a two-loop invariant system without perturbation feedback. Orig. art. has: 1 figure, 33 formulas, and 1 table. [JPRS]

SUB CODE: 13, 09 / SUBM DATE: 24Feb64 / ORIG REF: 003

Card 2/2 CC

L 45688-66 TWT(d)/T/SWP(1) IJP(c) RB/GG

ACC NR: AP6012870

SOURCE CODE: UR/0118/66/000/004/0022/0023

AUTHOR: Goroshin, O. I. (Engineer); Zhuravskiy, Yu. P. (Engineer)

43

ORG: none

42

TITLE: A multichannel coupling device with regulators for use with the "Dnepr" all purpose computer

B

SOURCE: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 4, 1966, 22-23

TOPIC TAGS: computer programming, coupling circuit, digital analog computer, industrial automation

ABSTRACT: The article describes the circuitry, operation, and scope of a 14-channel regulator coupling device, developed at the NIOKHIM Institute (Institut NIOKHIM), to be used as a coupling circuit between a "Dnepr" all-purpose computer and an output work unit (e.g., a machine tool). The device has 30 output trigger cells for the connection of signal and control relays which are switched on and off at commands fed from the control unit in accordance with the machine operation routine. A structural diagram of a data conversion system using this coupling circuit is examined, and the operation of one of the identical 14 channels is considered in detail. The device has a built-in alarm system in the case of machine stoppage due to program-monitored faults. A basic electrical diagram of the device is included, and it is pointed out that this unit, which is simple and reliable in operation, provides the operator with the

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UDC: 681.14-523.8:62-519-654.15

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ACC NR: AP6012870

possibility of visually monitoring the control process and of intervening in that process at any time. The device permits easy matching with electronic simulation equipment and may be used in the formation of hybrid (digital-analog) control systems. Unlike static discrete-analog converters, this device filters out the HF oscillations of output signals caused by the operational instability of the discrete-to-analog converter in the coupling unit of the computer. At the present time, the device is being used in a Dnepr - based control system in the absorption section of a soda production operation at the Slavyanskiy Soda Combine (Slavyanskiy sodovoy kombinat). Orig. art. has: 2 figures.

SUB CODE: 09,13/ SUBM DATE: none

Card 2/2 m7

TRET'YAKOV, F.Ye.; KIRYUKHINA, G.N.; GORSHKOV, A.I.

Effect of heat treatment on the structure and properties of VT15 alloy
welds. Metalloved. i term. obr. mst. no.5:59-63 My '65. (MIRA 18:7)

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wires. Elek. sta. 36 no.1:68-70 Ja '65.

(MIRA 18:3)

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DLC:TJ1230.G88

(Devices for metal-cutting machines; designer's handbook.)

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

GOROSHKIN, A. K.

Prisposobleniia dlia metalloreshushchikh stankov. Spravochnik konstruktora Izd. 2.
Moskva, Mashgis, 1950. 402 p.

(Devices for metal-cutting machines. Designer's handbook.)

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of
Congress, 1953.

GOROSHKIN, A.K., inzhener; MARKUS, M.Ye., inzhener; REDAKTOR; KARGANOV, V.G.,
inzhener, redaktor.

[Attachments for metalcutting machines; manual for the designer]
Prisposobleniia dlia metalloreshushchikh stankov; spravochnik konstruktora.
Izd. 3. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit.
lit-ry, 1953. 266 p. (MLRA 7:6)
(Machine tools)

GOROSHKIN, A. K.

A. K. Goroshkin, Prispobleniya dlya metallovezhushchikh stankov (Attachments for Metal-Cutting Machine Tools), reference book for designers, third edition, Mashgiz, 24 sheets.

The book contains a description of basic problems connected with the design of attachments, contains reference tables, calculations, and typical designs of attachments, machine units, and parts, treats problems of the application of pneumatic attachments, and gives the caliber of metal-cutting machine tools.

The reference book is intended for production designers, and students of special training institutions.

SO: U-5472, 18 Nov 1954

GOROSHKIN, A.K.

ANTIPOV, K.F., inzhener; BALAKSHIN, B.S., doktor tekhnicheskikh nauk, professor; BARYLOV, G.I., inzhener; BEYZEL'MAN, R.D., inzhener; BERDICHEVSKIY, Ya.G., inzhener; BOBKOV, A.A., inzhener. KALIMIN, M.A., kandidat tekhnicheskikh nauk; KOVAN, V.M., doktor tekhnicheskikh nauk, professor; KORSKOV, V.S., doktor tekhnicheskikh nauk; KOSILOVA, A.G., kandidat tekhnicheskikh nauk; KUDRYAVTSEV, N.T., doktor khimicheskikh nauk, professor; KURYSHOVA, Ye.S., inzhener; LAKHTIN, Yu.M., doktor tekhnicheskikh nauk, professor; MAYERMAN, M.S., inzhener; NOVIKOV, M.P., kandidat tekhnicheskikh nauk; PARIYSKIY, M.S., inzhener; PEREPONOV, M.N., inzhener; POPILOV, L.Ye., inzhener; POPOV, V.A., kandidat tekhnicheskikh nauk; SAVERIN, M.M., doktor tekhnicheskikh nauk, professor; SASOV, V.V., kandidat tekhnicheskikh nauk; SATEL', N.A., doktor tekhnicheskikh nauk, professor; SOKOLOVSKIY, A.P., doktor tekhnicheskikh nauk, professor [deceased]; STANKSVICH, V.G., inzhener; PRUMIN, Yu.L., inzhener; KHRAMOV, M.I., inzhener; TSEYTLIN, L.B., inzhener; SHUKHOV, Yu.V., kandidat tekhnicheskikh nauk; BABKIN, S.I., kandidat tekhnicheskikh nauk; VOLKOV, S.I., kandidat tekhnicheskikh nauk; GORODETSKIY, I.Ye., doktor tekhnicheskikh nauk, professor; GOROSHKIN, A.K., inzhener; DOSCHATOV, V.V., kandidat tekhnicheskikh nauk; ZAKHARIN, V.S., inzhener; ISAYEV, A.I., doktor tekhnicheskikh nauk, professor; KEDROV, S.M., kandidat tekhnicheskikh nauk; MALOV, A.M., kandidat tekhnicheskikh nauk; MARDAMYAN, M.Ye., inzhener; PANCHENKO, K.P., kandidat tekhnicheskikh nauk; SEKRETEV, D.M., inzhener; STAYEV, K.P., kandidat tekhnicheskikh nauk; SYROVATCHENKO, P.V., inzhener; TAURIT, G.B., inzhener; AL'YASHEVA, M.A., kandidat tekhnicheskikh nauk;

(Continued on next card)

ANTIPOV, K.F. ---(continued) Card 2.

GRANOVSKIY, G.I., redaktor; DEMYANOV, P.M., redaktor; [illegible],
redaktor; CHARUKO, D.V., redaktor; [illegible], [illegible]
[deceased]; SOKOLOVA, T.N., [illegible]

[Machine builder's manual] Spravochnik po [illegible]
v dvukh tomakh, red.sovet V.M. [illegible]. [illegible]
i dr. Moskva, Gos.nauchno-tekhnicheskoe izdatel'stvo
Vol. 1. (Pod red. A.G.Kosilovskogo) [illegible]
Malova) 1958. 584 p. (1958)
(Machinery Industry)

GOROSHNIKOV, A.K.

ANTOSHIN, Ye.V

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PHASE I BOOK REPRODUCTION

807/1351

Справочник механика машиностроительного завода, 7-й выпуск. Справочник механика машиностроительного завода. Выпуск 7. М.: Машинное строительство, 1978. 2-е издание. Технология ремонта оборудования. Москва, Машиностроение, 1978. 7-й выпуск. 1059 стр. 10,000 копий отпечатано.

Книга М.И. Антошина, инженера; М.И. К.О. Троица, инженера; Техн. М.: Т.П. Антошин, канд. техн. наук; Т.П. Троица, инженер; А.П. Владимирович, инженер; Т.П. Антошин, канд. техн. наук; Р.А. Бонкин, кандидат технических наук; М.И. Антошин, инженер; М.И. Антошин, инженер.

Примечание: Эта рукопись предназначена для персонала ответственного за ремонт и обслуживание оборудования на машиностроительном заводе.

Содержание: В справочнике содержится информация, относящаяся к организации работ по ремонту и обслуживанию оборудования, а также к организации работ по ремонту и обслуживанию оборудования на машиностроительном заводе. В справочнике содержится информация о работе оборудования, а также о методах его ремонта и обслуживания. В справочнике также содержится информация о методах диагностики неисправностей оборудования и о методах их устранения.

109 Best treatment and chemical heat treatment of metals (Bogachev, I.A.)
 110 Candidates of technical sciences)
 111 Best treatment of steel
 112 Chemical heat treatment of steel
 113 Best treatment of steel
 114 Quality control of heat treatment
 115 Some methods of qualitative analysis
 116 Straightening of parts during heat treatment
 117 Example of planning of equipment for a heat-treatment shop
 118 Precision and surface quality in machining (Pronin, A.G.)
 119 Doctor of Technical Sciences)
 120 Precision and finish of surfaces of various methods of machining tools
 121 Effect of wear and design of guides on the precision of machine tools
 122 Tools for the machining of metals (Kotlyar, S.K., Engineer)

123 Cutters
 124 Drills
 125 Conduits
 126 Reamers
 127

Card 3 / 25

178 Milling cutters
 179 North-cutting tools
 180 Broaches
 181 Threading tools
 182 Choice of a grinding disk (Vraglyuk, L.A., Engineer)
 183 Cutting regimes (Vraglyuk, L.A., Engineer)
 184 Internal turning of cylindrical and beveled surfaces
 185 Internal turning of cylindrical and beveled surfaces
 186 Machining allowances (Vraglyuk, L.A., Engineer)
 187 General-purpose devices for machining (Goroshnik, A.K., Engineer)
 188 Clamping centers
 189 Machine tools
 190 Machine tools
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MALOV, A.H., kand.tekhn.nauk; BABKIN, S.I., kand.tekhn.nauk; VOLKOV, S.I.,
kand.tekhn.nauk; GORODETSKIY, I.Ye., prof., doktor tekhn.nauk;
GOROSHEIN, A.K., inzh.; DOSCHATOV, V.V., kand.tekhn.nauk; ZAMALIN,
V.S., inzh.; ISAYEV, A.I., prof., doktor tekhn.nauk; KEDROV, S.M.,
kand.tekhn.nauk; MARDANYAN, M.Ye., inzh.; PANCHENKO, K.P., kand.
tekhn.nauk; SEKRETEV, D.M., inzh.; STAYEV, K.P., kand.tekhn.nauk;
SYROVATCHENKO, P.V., inzh.; TAURIT, G.E., inzh.; EL'YASHEVA, M.A.,
kand.tekhn.nauk; KOVAN, V.M., prof., doktor tekhn.nauk, glavnyy red.;
MARKUS, M.Ye., inzh., red. [deceased]; SOKOLOVA, T.F., tekhn.red.

[Manual for mechanical engineers; in two volumes] Spravochnik tekhnolo-
loga mashinostroitelia; v dvukh tomakh. Glav.red. V.M.Kovan. Chleny
red.soveta B.S.Balakshin i dr. Moskva, Gos.nauchno-tekhn.isd-vo
mashinostroit.lit-ry. Vol.2. Pod red. A.N.Malova. 1959. 584 p.
(MIRA 12:11)

(Mechanical engineering)

GOROSHKIN, Aleksandr Konstantinovich; IVANOVA, K.N., inzh., red.;
TIKHANOV, A.Ya., tekhn.red.

[Attachments for machine tools; handbook] Prispособleniia dlia
metalloreshushchikh stankov; spravochnik. Izd.4., perer. i dop.
Moskva, Mashgiz, 1962. 379 p. (MIRA 15:5)
(Machine tools--Attachments)

VOLKOV, S.I., kand. tekhn. nauk [deceased]; GORODETSKIY, I.Ye., doktor tekhn. nauk, prof. [deceased]; GOROSHKIN, A.K., inzh.; DOSCHATOV, V.V., inzh.; ZAMALIN, V.S., inzh.; KEDROV, S.M., kand. tekhn. nauk; MALOV, A.N., kand. tekhn.nauk, prof.; MARDANYAN, M.Ye., inzh.; PANCHENKO, K.P., kand. tekhn. nauk; ROZHDESTVENSKIY, L.A., kand. tekhn. nauk; SEKRETEV, D.M., inzh.; SYROVATCHENKO, P.V., kand. tekhn. nauk; TAURIT, G.E., inzh.; EL'YASHEVA, M.A., kand. tekhn. nauk; YAKUSHEV, A.I., doktor tekhn.nauk, prof.; KOVAN, V.M., doktor tekhn.nauk, prof., red. [deceased]; SERGEYEV, V.M., inzh., red. izd-va; CHERNOVA, Z.I., tekhn. red.; EL'KIND, V.D., tekhn. red.

[Handbook for the mechanical engineer] Spravochnik tekhnologa-
mashinostroitelia; v dvukh tomakh. Glav. red. V.M.Kovana. Mo-
skva, Mashgiz. Vol.2. 1963. 912 p. (MIRA 16:7)
(Machinery--Design and construction)

GOROSHKIN, I.

A significant five-year period. Okhr. truda i sots. strakh. 4
no.10:23-24 0 '61. (MIRA 14:12)

1. Zamestitel' presedatelya Gosudarstvennogo komiteta Soveta
Ministrov SSSR po voprosam truda i zarabotnoy platy.
(Pensions)

GOROSHIN, O.I. [Horoshyn, O.I.] (Khar'kov)

Necessary condition ensuring a stability margin of a two-stage
invariant system without perturbation feedback. Avtomatyka 10 no.3:
15-18 '65. (MIRA 18:7)

GOROSHKINA, N.A.

VANYUKOVA, O.P.; GOROSHKINA, N.A.; DREYSIN, G.I.; IUK'YANOVA, Ye.D.;
RYATOVA, G.S.; SAMOYLOVA, L.G.; DARKOV, G.V.; LEBEDEV, A., tekhn.red.

[State budgets of the Union republics in the fifth five-year plan;
a statistical manual] Gosudarstvennye biudzety soizusnykh respublik
v piatoi piatiletke; statisticheskii sbornik. Moskva, Gosfinisdat,
1957. 174 p. (MIRA 10:12)

1. Russia (1923- U.S.S.R.) Byudzhetoynoe upravleniye.
(Budget)

SHERENTSI, A.N., inzh.; GOROSHKINA, V.A., inzh.

Economic limits of current loads for 110-550 kv. overhead power
transmission lines using standardized towers. Elektrichestvo no.3:
39-45 Mr '63. (MIRA 16:4)

1. Institut "Energoset'proyekt".
(Electric power distribution)

GOROSHKINA, V.A.; SHERENTSI, A.N.

Author's reply. Elektrichestvo no.4:91-92 Ap '65.

(MIRA 18:5)

GOROSHKO, B.B.; GRACHEVA, V.P.; RASTORGUYEVA, G.P.; RIKHTER, B.V.;
FEDOROVA, G.A.

Meteorological observations in analyzing the industrial
pollution of the ground layer of the atmosphere. Trudy GGO
no.138:18-30 '63. (MIRA 17:2)

ALEKSANDROV, N.N.; GOROSHKO, B.B.; KOVALENKO, V.G.

Determining the coefficient of the rate of air flow through a gauze filter. Trudy GGO no.158:102-108 '64. (MIRA 17:9)

ALEKSANDROV, N.N.; GOROSHKO, B.P.

Methods of separating dry fallout from fallout received with
precipitation. Trudy GGO no.172:165-173 '65.

(MIRA 18:8)

L 2666-66 EWT(1)/EWT(m)/FCC/EWA(h) GS/GW

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ACCESSION NR: AT5023962

AUTHOR: Aleksandrov, N. N.; Goroshko, B. B.; Kovalenko, V. G.;
Panfilova, G. A. ⁴⁴⁻⁵⁵ ⁴⁻⁵⁵ ⁴⁴⁻⁵⁵

TITLE: ⁴⁴⁻⁵⁵ Effect of meteorological conditions on the effectiveness of
radioactive pollutant collection

SOURCE: Nauchnaya konferentsiya po yadernoy meteorologii. Obninsk,
1964. Radioaktivnyye izotopy v atmosfere i ikh ispol'zovaniye v
meteorologii (Radioactive isotopes in the atmosphere and their use
in meteorology); doklady konferentsii. Moscow, Atomizdat, 1965,
473-480 ⁴⁴⁻⁵⁵

TOPIC TAGS: nuclear meteorology, micrometeorology, radioactive fall-
out, radioactive pollution ^{12, 44-55}

¹⁹ ABSTRACT: Results are presented for comparative tests carried out
to determine the effectiveness of 3 types of fallout collectors and
for experiments conducted to determine the coefficient of air passing
over a vertical sheet [panel]. The collectors were plain gauze-covered
sheets, framed, sectional, steel sheets painted with nitrocellulose
enamel, or glycerine-coated aluminum vessels. The effectiveness of
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ACCESSION NR: AT5023962

these collectors was tested under various meteorological conditions, e.g., days with and days without precipitation, different amounts of precipitation, changes in humidity, and for different wind velocities and directions. Orig. art. has: 3 figures and 4 tables. [ER]

ASSOCIATION: none

SUBMITTED: 28Apr65

ENCL: 00

SUB CODE: ES, NP

NO REF SOV: 001

OTHER: 005

ATD PRESS: 4/01

Card 2/2

GOROSHKO, D. (Khar'kov); VERKHOVSKIY, V. (Khar'kov)

Centralized cutting out of leather goods for repair shops. From.
koop. 12 no.7:6-7 J1 '58. (MIRA 11:8)

1.Predsedatel' pravleniya oblytspromsoyuz (for Goroshko). 2.Glavnyy
inzhener oblytspromsoyuz (for Verkhovskiy).
(Kharkov Province--Boots and shoes--Repairing)

KAZAKOV, Ye. I.; LARIN, A. Ya.; VORONINA, T. B.; LYUBIMOVA, Z. V.;
GOROSHKO, G. K.

Surface-active substances from peat tar hydrocarbons. Trudy
IGI 17:157-168 '62. (MIRA 15:10)

(Surface-active agents) (Peat)

KAZAKOV, Ye. I.; LARIN, A. Ya.; VORONINA, T. B.; LYUBIMOVA, Z. V.;
GOROSHKO, G. K.

Light oil of a mean temperature brown coal tar as a raw material
for the production of surface-active substances. Trudy IGI 17:
169-173 '62. (MIRA 15:10)

(Coal-tar products) (Surface-active agents)

SKURATOV, S.M.; GOROSHKO, N.N.

Simple bridge circuit for measuring the resistance of a platinum
thermometer. *Izv. tekhn.* no.2:6-8 F '64. (MIRA 17:4)

...EPA/EPA(s)-2/EWT(m)/SPF(c)/SPR/EWP(j)/T Pc-4/Paa-4/Pr-4/

...00010006

...Goroshko, N.N.

Kozina,

...M.P.; Skurston, S.M.; Balikova, M.A.; Plate, A.F.

...Heats of combustion of exo-and endo-isomers-- 2-cyano-
bicyclo-(2,2,1)heptane

...Moscow University Vestnik. Seriya. Khimiya, no. 4, 1964,

...The heats of combustion of the exo and endo isomers and
the heat of isomerization ($\Delta H_{exo \rightarrow endo}$) of 2-cyano-bicyclo-(2,2,1)-

...were determined in the Moscow State University Thermochemi-
...study of the
...derivatives of
...elastic

L 15702-65

ABSTRACT NR: AP4044076

crystals". The enthalpy for the exo-isomer, calculated at initial pressure of 1 atm, $-\Delta H_{\text{e}}^{25^{\circ}} = 1132.44 \pm 0.31$ kcal/mol, and for the endo-isomer, $-\Delta H_{\text{e}}^{25^{\circ}} = 1132.98 \pm 0.35$ kcal/mol. The heat of isomerization was calculated at 76.80, at which temperature both isomers were liquid, $\Delta H_{\text{e}}^{76.80} = 1130.09 \pm 0.31$ and $\Delta H_{\text{e}}^{76.80} = 1131.05 \pm 0.35$ kcal/mol; exo \rightarrow endo heat of isomerization = -0.96 ± 0.44 kcal/mol. Orig. art. has: 7 tables.

ORIGIN: MGU Kafedra fizicheskoy khimii: Moscow State University
Department of Physical Chemistry

SUBMITTED: 03Mar64

DATE ACQ:

ENCL: 00

SUB CODE: TD, GC

NR REF SOV: 004

OTHER: 004

Card 2/2

SEREGIN, E.A.; GOROSHKO, N.N.; KOLESOV, V.P.; BELIKOVA, N.A.; SKURATOV,
S.M.; PLATE, A.F.

Heat capacity at low temperatures and the thermodynamic functions
of endo- and exo-2-methyl-bicyclo-(2,2,1)-heptanes. Dokl. AN
SSSR 159 no.6:1381-1384 D '64 (MIRA 18:1)

SAVIN, G.M. [Savin, H.M.] (Kiyev); ~~GOROSHKO~~, O.A. [Horoshko, O.O.] (Kiyev)

Nonrebounding of a load during abrupt changes in the lifting force.
Prykl.mekh. 4 no.3:263-268 '58. (MIRA 13:8)

1. Institut stroitel'noy mekhaniki AN USSR.
(Lifting and carrying)

GOROSHKO, O. A.: Master Phys-Math Sci (diss) -- "On the dynamics of flexible
conductors". Kiev, 1958. 7 pp (Acad Sci Ukr SSR, Inst of the Physics of Metals),
150 copies (KL, No 5, 1959, 142)

AUTHOR: Goroshko, O.A. 21-58-5-10/28

TITLE: On the Vibrations of Flexible Guides Under the Action of a Moving Load (O kolebaniyakh gibkikh provodnikov pod deystviyem dvizhushchegosya gruzu)

PERIODICAL: Dopovidi Akademii nauk Ukrain's'koi RSR, 1958, Nr 5, pp 508-511 (USSR)

ABSTRACT: The author has derived integro-differential equations for the transverse and torsional vibrations of flexible guides. He has also analyzed qualitatively a possibility of the conversion of the energy of longitudinal vibrations of the load into the energy of the torsional and transverse vibrations of the flexible guides. The author concludes that the minimum of swinging of the flexible guides can be achieved by using ropes which do not untwist or pairs of ropes twisted in opposite directions. There are two Soviet references.

ASSOCIATION: Institut matematiki AN UkrSSR (Institute of Mathematics of the AS UkrSSR)

PRESENTED: By Member of the AS UkrSSR, G.N. Savin
Card 1/2

21-58-5-10/28

On the Vibrations of Flexible Guides Under the Action of a Moving Load

SUBMITTED: November 11, 1957

NOTE: Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

1. Vibration--Mathematical analysis

Card 2/2

GOROSHKO, O.A. [Horoshko, O.O.]

Some special characteristics of the motion of flexible cables
[with summary in English]. Dop. AN URSR no.12:1296-1299 '58.
(MIRA 12:1)

1. Institut stroitel'noy mekhaniki AN USSR. Predstavil akademik
AN USSR G.N.Savin [H.M.Savin].
(Cables--Vibrations)

Horoshko, O.O.

SOV/21-59-7-5/25

24(6)

AUTHOR: Savin, H.M., (Savin, G. N.), Member AS UkrSSR, Horoshko, O.O., (Horoshko, O.A.), Bezsonov, V.H. (Bessonov, V. G.)

TITLE: Determination of Stresses in a Reeling Elastic Rope

PERIODICAL: Dopovidi Akademii Nauk Ukrain's'koi RSR, 1959, Nr 7, pp 712-717 (UkrSSR)

ABSTRACT: The authors investigated stress distribution in the reeling part of ropes. The equilibrium conditions for the thread on the felloe are determined from equation $\frac{\partial^2 u(x,t)}{\partial t^2} - \frac{\beta}{R} \cdot \frac{u}{(u)} - \frac{\partial u(x,t)}{\partial x} = 0$.

It is shown that, at winding-up speeds of $v_c = \text{constant}$, limited by condition

$$0 \leq v \leq - \frac{\beta \omega}{\beta \pi} \ln(1 - p^2)$$

the dynamic stresses in the reeling part are almost completely damped by friction forces. At winding-up speeds defined by inequality

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SOV/21-59-7-5/25

Determination of Stresses in a Reeling Elastic Rope

$$v \geq \frac{p w R}{\beta}$$

the slipping of the thread on the felloe vanishes.
There are 23 mathematic formulas and 4 diagrams

ASSOCIATION: Instytut budivel'noyi mekhaniky AN UkrRSR (Institute of
Civil Engineering AS UkrSSR)

SUBMITTED: March 16, 1959

Card 2/2

SOV/21-59-8-4/26

16 (1), 24 (5)

AUTHORS: Savin, H. M. (Savin, G. M.),
Member, AS UkrSSR and Horoshko, O. O. (Goroshko, O.A.)

TITLE: Elastic Parameters of a Naturally Twisted Thread

PERIODICAL: Dopovidi Akademii nauk Ukrain's'koi RSR, 1959, Nr 8,
pp 828 - 832 (USSR)

ABSTRACT: In this article, the authors describe the properties of real ropes to untwist on longitudinal tension by introducing their mechanical model which is a naturally twisted thread. The term "naturally twisted thread" means a mechanical object endowed with longitudinal and torsional rigidity and with properties to untwist on longitudinal tension and to lengthen on untwisting. The principal parameters of the model are: EF and B - longitudinal and torsional rigidity of the thread respectively - and k , the coefficient of untwisting. The following formulae are taken as a basis for determining the elastic parameters experimentally:

$$EF = \frac{Q_2 - Q_1}{U_2 - U_1} L_0 \quad (15)$$

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Elastic Parameters of a Naturally Twisted Thread

$$k = \frac{M_k^{(2)} - M_k^{(1)}}{Q_2 - Q_1} \quad (16)$$

$$B = \frac{\Delta M_k}{\Delta \theta(z_0)} z_0 \quad (17)$$

Whereby Q_1, Q_2 stand for loads, $M_k^{(1)}$ and $M_k^{(2)}$ for the volume of the moments, ΔM_k for the increase of the moment, and $\Delta \theta$ for motionless direction. The above formulae are obtained from the equation for the static equilibrium of the thread

$$\left. \begin{aligned} EF \frac{d^2 U}{dx^2} + kEF \frac{d^2 \theta}{dx^2} + q &= 0 \\ kEF \frac{d^2 U}{dx^2} + (B + k^2 EF) \frac{d^2 \theta}{dx^2} &= 0 \end{aligned} \right\} \quad (9)$$

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SOV/21-59-8-4/26

Elastic Parameters of a Naturally Twisted Thread

Whereby q means the weight of the unit of the length of the thread, and dx - elements of the thread. The elastic properties of twisted ropes were also studied by M. F. Glushko [Ref. 1] who based his experiments on the definition of dependence of the elastic properties of the rope on its geometrical structure. The naturally twisted thread, a mechanical model of a real rope, suggested by the authors, defines the basic properties of twisted ropes of various construction. According to this model, the basic elastic parameters of the rope - the longitudinal and torsional rigidity and the coefficient of torsion - are defined by means of simple mechanical tests independently from its structure. There are 2 tables and 1 Soviet reference.

ASSOCIATION: Institut stroitel'noy mekhaniki AS USSR (Institute of Construction Mechanics of the AS of UkrSSR)

SUBMITTED: March 16, 1959

Card 3/3

GORASHKO, C.A.

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

- 66. M. A. Gerasimov, Yu. M. Kabanov, E. G. Sviridov (Moscow): On a method of solving problems of the stability theory of elastic shells with the use of asymptotic expansion.
- 67. G. I. Gerasimov, E. G. Sviridov (Moscow): Solution of stability problems of hydrodynamic of viscous and visco-plastic fluids.
- 68. V. A. Gerasimov (Moscow): An approximate stability analysis of beams in the elastic-plastic range.
- 69. G. A. Gerasimov (Moscow): Some problems concerning the plane flow of compressible plastic media.
- 70. G. P. Gerasimov (Moscow): On a problem of elastic-plastic rupture of an isotropic shell.
- 71. I. A. Gerasimov (Moscow): A dynamic problem for a central shell.
- 72. V. A. Gerasimov (Moscow): Some generalizations of the basic application of mechanics to geological problems.
- 73. V. A. Gerasimov, P. A. Gerasimov (Moscow): Elimination of processes of plastic deformation and rupture of shells with great velocity of the shell.
- 74. V. A. Gerasimov (Moscow): Development of a theory of processes occurring in the case of the rupture of cylindrical shells.
- 75. V. A. Gerasimov (Moscow): Some generalizations of the basic equations of viscoplasticity.
- 76. V. A. Gerasimov (Moscow): The propagation of longitudinal waves in a viscoplastic medium.
- 77. A. M. Gerasimov, E. G. Sviridov (Moscow): Theoretical and experimental study of rupture of shells of the shell-type hydrodynamic power plant.
- 78. V. I. Gerasimov (Moscow): A generalized theory of plastic flow.
- 79. V. I. Gerasimov (Moscow): The theory of finite deformations of anisotropic elastic media.
- 80. V. I. Gerasimov, E. A. Kabanov (Moscow): A general creep theory of shells.
- 81. A. A. Gerasimov (Moscow): Development of the theory of thin elastic shells.
- 82. V. I. Gerasimov (Moscow): Anisotropic integration of the equations of the theory of thin elastic plates.
- 83. V. I. Gerasimov (Moscow): Determination of the stability and rupture in a shell from the point of view of the theory of the rupture of a rigid shell.
- 84. A. A. Gerasimov (Moscow): On the secondary effects in beam rupture.
- 85. V. I. Gerasimov (Moscow): The influence of the secondary effects on the stability of beams.
- 86. G. A. Gerasimov, E. G. Sviridov (Moscow): Contribution to the theory of the stability of shells.
- 87. A. A. Gerasimov (Moscow): On elastic-plastic deformation of thin-walled plates and shells.
- 88. A. A. Gerasimov (Moscow): Equilibrium of anisotropic shells of revolution for large displacements and strains.
- 89. G. A. Gerasimov (Moscow): Creep design of thin anisotropic thin-walled shells.
- 90. G. A. Gerasimov (Moscow): The general equations of shell dynamics and some particular solutions.
- 91. D. V. Gerasimov (Moscow): Torsion of an elastic layer.
- 92. V. I. Gerasimov (Moscow): Stress concentration in a shell under the action of a concentrated load.
- 93. V. I. Gerasimov, E. G. Sviridov (Moscow): The influence of the secondary effects on the stability of shells.
- 94. V. I. Gerasimov (Moscow): Effect of shear stresses in the design of foundation strips of arbitrary rigidity under arbitrary loads.
- 95. V. I. Gerasimov (Moscow): The bending of a hollow prismatic bar with a rectangular hole.
- 96. V. I. Gerasimov (Moscow): The limit equilibrium of an elastic-plastic disc that is compressed between rough rigid plates.
- 97. G. A. Gerasimov (Moscow): A plane multi-layered shell subjected to a conservative body force and a conservative surface force.
- 98. V. I. Gerasimov (Moscow): The influence of the secondary effects on the stability of shells.
- 99. V. I. Gerasimov (Moscow): The influence of the secondary effects on the stability of shells.
- 100. V. I. Gerasimov (Moscow): The influence of the secondary effects on the stability of shells.
- 101. V. I. Gerasimov (Moscow): The influence of the secondary effects on the stability of shells.

SAVIN, G.N. [Savin, H.N.], akademik; GOROSHKO, O.A. [Horchko, O.O.]

Equation for the motion of a naturally twisted thread of varying length. Dop. AN URSR no.6:726-729 '60. (MIRA 13:7)

1. Institut mekhaniki AN USSR. 2. AN USSR (for Savin).
(Rope)

GOROSHO, O.A. [Horoshko, O.O.]

New periodicals on mechanics. *Fyziol.mekh.* 6 no.1:115 '60.
(MIRA 13:6)
(Mechanics--Periodicals)

SAVIN, G.N. [Savin, H.M.] akademik; GOROSHKO, O.A. [Horoshko, O.O.]

Integrodifferential equations for the motion of objects of variable dimensions. *Dop. AN USSR* no. 7:892-898 '60. (MIRA 13:8)

1. Institut mekhaniki AN USSR. 2. AN USSR (for Savin).
(Motion)

GEORGIYEVSKAYA, V.V. [Heorhiievs'ka, V.V.]; GOROSHKO, O.A. [Horoshko, O.O.]

Work of the seminar on mechanics at the Department of
Technology of the Academy of Sciences of the Ukrainian
S.S.R. during the first half of 1961. Prykl.mekh. 7
no.6:683-685 '61. (MIRA 14:11)
(Academy of Sciences of the Ukrainian S.S.R.)

SAVIN, Guriy Nikolayevich, akademik; GOROSHKO, Oleg Aleksandrovich;
GOLUBENTSEV, A.N., doktor tekhn. nauk, otv. red.; REMENNIK,
T.K., red.; LISOVETS, A.M., tekhn. red.

[Dynamics of a wire of varying length, used in mine hoists]
Dinamika niti peremennoi k shakhtnym pod'emam. Kiev, Izd-vo
Akad. nauk USSR, 1962. 331 p. (MIRA 16:3)

1. Akademiya nauk Ukr. SSR (for Savin).
(Wire rope)

GOROSHKO, O.A. [Horoshko, O.O.]

Problems of mechanics at the joint session of departments of technical sciences of the Academy of Sciences of the U.S.S.R. and the Academy of Sciences of the Ukrainian S.S.R. *Prykl.mekh.* 9 no.2:228-229 '63.
(MIRA 16:3)

(Mechanics)

GOROSHKO, O.A. [Horoshko, O.O.]

Work of the symposium-seminar on the problems of wire ropes.
Prykl. mekh. 9 no.6:686 '63. (MIRA 16:12)

GOROSHKO, O.A. [Horoškc, O.O.]; KRASIL'NIKOV, K.V. [Krasyl'nykov, K.V.]

Transverse vibrations of a string (cable) of variable
length. Dop. AN URSR no.3:319-322 '64. (MIRA 17:5)

1. Institut mekhaniki AN UkrSSR i Dnepropetrovskiy gosudarst-
vennyy universitet. Predstavleno akademikom AN UkrSSR G.N.
Savinym [Savin, H.M.].

GOROSHKO, O.A. [Horoshko, O.O.]

Work of the section of dynamics of the seminar on mechanics
at the Institute of Mechanics of the Academy of Sciences of
the Ukrainian S.S.R. Prykl. mekh. 10 no.3:345-347 '64.
(MIRA 17:6)

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EWT(d)/EWT(m)/EWP(w) EM/RM

AM5013211

BOOK EXPLOITATION

UR/

Goroshko, Oleg Aleksandrovich

37
BFI

Dynamics of elastic structures in free flight conditions (Dinamika uprugoy konstruktsii v usloviyakh svobodnogo poleta) Kiev, Naukova dumka, 1965, 164 p. illus., biblio., fold. chart. Errata slip inserted. 1200 copies printed. (At head of title: Akademiya nauk Ukrainaskoy SSR. Institute mekhaniki)

TOPIC TAGS: aerodynamics, elasticity theory, dynamic stability, aerospace vehicle, free flight

PURPOSE AND COVERAGE: This book deals with the dynamic stability of elastic hulls of flight vehicles under free flight conditions. It is shown through investigations of the general equations of dynamics that loss of dynamic stability can occur in some cases of motion and loss of stability due to longitudinal bending in other cases, depending on flight conditions. Regions of stability are determined by means of mechanical parameters of the structure, depending on peculiarities of the control system, and the thrust, and on other factors. Full coverage of the subject is not claimed, and the

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book contains chiefly the results of investigations conducted by the author. The book is intended for specialists working in the field of flight dynamics, control systems and oscillations.

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SUB CODE: ME, AS

SUBMITTED: 19Jan65

NO REF SOV: 044

OTHERS: 000

OC

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