GURIL'OVA, M.A.

Winter hardiness of cultivated plants. Visnyk AN URSR 26 no.10: 24-30 O '55. (MLRA 9:1)
(Plants--Frost resistance)

M

USSR/Cultivated Plants - General Problems.

Abs Jour : Ref Zhur Biol., No 18, 1958, 82243

Author : Fedorova, N.A., Gurileva, M.A., Kostlan, N.V.

Inst : -

Title : Methods of Determining the Viability of Winter Crops

Orig Pub : Byul. pofiziol. rastenii, 1957, No 1, 29-33

Abstract : Direct growth is considered the primary method. However, the water method (M. Bugayevskiy), the sugar growth method (Kuperman and Kucheryavaya) and others belong to those techniques which speed up the process and are less laborious and still have not been widely utilized. At the Chair of Darwinism in Moscow University one has worked out a determination method on the basis of the condition of the apical cones (thier turgescence, degree of browning and turbidity). Upon checking 316 specimens of those plants which proved to lack viability in the instance of direct growth, no

Card 1/2

USSR/Cultivated Plants - General Problems M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82243

loss of turgor or occurrence of brown vegetative cones were observed. The Institute of Plant Physiology suggested that one use staining for the cones and shoot base sections, with a 0.1% sol. of acidic fuchsine. Non-viable cells are distinguished by their ability to be stained; in cases where only the shoot base cells stained, the plants belonged to the weakened group. Work has been started on applying the luminescent analysis method (by means of an LA-1 apparatus) and radio isotopes (on the basis of the speed and rate of P^{32} uptake by the plants).
The Bibliography lists 8 titles. -- B.Te. Kravtsova

Card 2/2

GURileva, M.A.

AUTHORS: Fedorova, N. A.; Gurileva, M. A.

TITLE: On the Determination of the Viability of Winter Crops by the Condition

On the Determination of the viability of Winter Crops
by the Condition of the Growth Cone

The following conclusions were drawn: 1. Data derived by the method of fixing the viability of plants according to the state of growth cone with a consideration of the indexes recommended in the Chirkov article do not coincide with results of direct growth. 2. Considering the feasibility of developing a method of evaluating the viability of winter crops which (method) furnishes the chance of more widely taking advantage of the observations of productive plantings of kolkhozes and sovkhozes, more reliable indexes must be found which permit the objective recognition of the non-viability of plants. 3. In the group of indexes of the evaluation of the viability of plants, there should be included the coloration of the tissues of bases of shoots and of stalky cone growths, an examination of the plants under an apparatus for luminescent analysis, and a determination of the activity of absorption of marked phosphorus.

There are no graphics in the text; there is one reference, which is Slavic. Yu. I. Chirkov (1) is cited with respect to his article which recommends the replacement of the method of direct growth (monolithic) by the method of determining viability of winter crops by the state of the cone growth.

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On the Determination of the Viability of Winter Crops by the Condition of the Growth Cone

ASSOCIATIONS: The studies were conducted at the suggestion of the Ministry of Agriculture of the U.S.S.R., & the Ministry of Agriculture of the Ukrainian SSR by the Ukrainian Scientific-Investigatory Institute of Agriculture and the Ukrainian Scientific-Investigatory Institute of the Physiology of Plants in 1956.

PRESENTED BY:

SUBMITTED:

AVAILABLE:

Card 3/3

GURILEVA, M.A.

3(7) PHASE I BOOK EXPLOITATION SOV/2384

Konferentsiya po agrometeorologii i agroklimatologii Ukrainskoy SSR

Materialy konferentsii (Material of the Conference on Agricultural Meteorology and Climatology of the Ukrainian SSR) Leningrad, Gidrometeoizdat, 1958. 247 p. Errata slip inserted. 700 copies printed.

Sponsoring Agencies: USSR. Glavnoye upravleniye gidrometeorologicheskoy sluzhby, Ukrainian SSR. Ministerstvo sel'skogo khozyaystva, Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut, and Ukrainskaya akademiya sel'skokhozyaystvennykh nauk.

Resp. Ed.: O.P. Prikhot'ko; Ed.: V.D. Pisarevskaya; Tech. Ed.: M.I. Braymina.

PURPOSE: This book is intended for agriculturists, agrometeorologists, and instructors in related vuzes.

COVERAGE: This collection of articles deals with problems in agricultural meteorology in the Ukraine. Among the topics discussed are: wintering, planting time for winter crops, corn cultivation, potato degeneration, moisture supply, and adverse weather factors. References accompany individual articles.

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3(7) SOV/2384

PHASE I BOOK EXPLOITATION

Konferentsiya po agrometeorologii i agroklimatologii Ukrainskoy SSR

Materialy konferentsii (Material of the Conference on Agricultural Meteorology and Climatology of the Ukrainian SSR) Leningrad, Gidrometeoizdat, 1958. 247 p. Errata slip inserted. 700 copies printed.

Sponsoring Agencies: USSR. Glavnoye upravleniy gidrometeorologicheskoy sluzhby, Ukrainian SSR. Ministerstvo sel'skogo khozyaystva, Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut, and Ukrainskaya akademiya sel'skokhozyaystvennykh nauk.

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12

VLASYUK, P.A., akademik; GURIL'OVA, M.A. [Huryl'ova, M.A.], kand.biol. nauk

Winter hardiness of plants. Nauka i zhyttia 8 no.3:23-25 Mr '58. (MIRA 12:9)

1. AN USSR i Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. Lenina (for Vlasyuk).
(Plants--Frost resistance)

GURILEVA, M. A. [Huryl'ova, M.A.]

A.A.Sapegin's works on the morphogenesis of plants and its significance for plant growing. Ukr.bot.zhur. 19 no.5:107-115 '62. (MIRA 16:1)

(Sapegin, Andrei Afanas'evich, 1883-)
(Botany--Morphology)

GABANIN, B.A.; NESMELOVA, Z.P.; GURILEVA, N.P.; SOLOLOVA, F.G.

Results of using Ol'kenitskii's medium for the study of microbes of the Enterobacteriaceae family. Lab. delo no.8:498-500 '65. (MIRA 18:9)

1. Bakteriologicheskaya laboratoriya Infektsionnoy bol'nitsy No.23 (glavnyy vrach - zasluzhennyy vrach RSFSR S.M. Raskina) Avtozavodskogo rayona goroda Gor'kogo.

TSEYDLER, Aleksandr Al'bertovich, prof. doktor; SMIRNOV, V.I., prof., doktor; DIOMIDOVSKIY, D.A., prof.-doktor; DOBROKHOTOV, G.N., kand. tekhn. nauk; BULAKH, S.A., kand. tekhn. nauk; GURINA, N.V., red.; SMOLDYREVA, L.G., red. izd-va; VAYNSHTEYN, Ye.B., tekhn. red.

[Metallurgy of copper and nickel] Metallurgiia medi i n kelia. Moskva, Gos. nauchno-tekh. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1958. 391 p. (MIRA 11:8)

1. Deystvitel'nyy chlen Akademii nauk KazSSR (for Smirnov).
2. Leningradskiy gornyy institut; kafedra metallurgii tyazhelykh i blagorodnykh metallov (for Diomidovskiy, Dobrokhotov, Bulakh).
(Copper--Metallurgy) (Nickel--Metallurgy)

GURNOV, P.P., Candidate Med Sci--(diss) "On the problem of therapy of progressive paralysis in connection with the peculiarities of neuro-syphilis of the post-war period." Dnepropetrovsk, 1957. 16 pp (Min of Health UkSSR. Dnepropetrovsk State Med Inst), 200 copies (KL,40-57, 106)

KAZAKOVSKIY, D.A., prof., doktor tekhn.nauk; KROTOV, G.A., dots., kand.tekhn. nauk; GURIN, A.A., kand.tekhn.nauk

Use of acoustical equipment for solving of mine surveying problems. Nauch.dokl.vys.shkoly; gor.delo no.2:85-91 '59. (MIRA 12:7)
(Mine surveying)
(Ultrasonic waves--Industrial applications)

L 15661-66 EWT(1)/ETC(F)/EPF(n)-2/EWG(m)/T IJP(c) AT
ACC NR: AP6000219 SOURCE CODE: UR/0056/65/049/005/1591/1600

AUTHORS: Sitenko, A. G.; Gurin, A. A.

ORG: Institute of Physics, Academy of Sciences, UkrSSR (Institut fiziki Akademii nauk UkrSSR)

59
23

TITLE: Effect of particle collisions (21,44,55) on plasma fluctuations (21,44,55)

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 5, 1965, 1591-1600

TOPIC TAGS: plasma oscillation, particle collision, temperature dependence, plasma temperature, plasma density, kinetic equation, collision integral

ABSTRACT: The authors studied the effect of binary collisions on plasma fluctuations, using a kinetic equation with a model collision integral in which the energy and momentum of the particles are conserved. The introduction of a model collision integral makes it possible to study plasma fluctuations for arbitrary values of the effective binary collision frequency, and not merely limiting low or high values, as in the past. A single component non-isothermal plas-

Card 1/2

L 15661-66

ACC NR: AP6000219

ma is investigated. The fluctuation-dissipation theorem is used to find a general expression for the correlation function of the random forces. Allowance for the binary collisions between particles leads to additional correlation of the random forces in velocity space. General expressions are obtained for the spectral distribution of the particle density fluctuations and for the temperature fluctuations and for the dependence of the fluctuation spectrum on the particle density, temperature, and binary collision frequency. The relation between fluctuations in a collisionless plasma and fluctuations in hydrodynamics is also studied as is the scattering of electromagnetic waves by fluctuations of density and temperature. It is shown that the temperature fluctuations exert an appreciable influence on the scattering with small change of frequency in the case of long wavelengths. Orig. art. has: 2 figures and 26 formulas.

SUB CODE: 20,12/SUBM DATE: 08Jun65/ ORIG REF: 003/ OTH REF: 003

OC

Card 2/2

ACC NR: AP7004570 SOURCE CODE: UR/0056/65/049/005/1591/1600

AUTHOR: Sitenko, A. G.; Gurin, A. A.

ORG: Institute of Physics, AN UkrSSR (Institut fiziki AN UkrSSR)

TITLE: Effect of particle collisions on fluctuations in a plasma

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki v. 49, no. 5, 1965, 1591-1600

TOPIC TAGS: particle collision, plasma physics

ABSTRACT: The authors use the kinetic equation with the Bhatnagar-Gross-Krook collision integral model as the basis for an investigation of the effect of pair collisions between particles on fluctuations in a plasma. The introduction of the model collision integral makes it possible to investigate plasma fluctuations for an arbitrary value of the effective pair collision frequency. The article investigates the case of a single-component, nonisothermal plasma. The fluctuation-dissipation relation is used to find a general expression for the correlation function of random forces. It is shown that allowance for pair collisions between particles leads to an additional correlation of random forces in the velocity space. General formulas are obtained for the spectral distributions of particle density fluctuations and temperature fluctuations. These formulas are used to investigate the effect of the magnitude of the effective pair collision frequency on the shape of the spectrum of particle density and temperature fluctuations, from the collisionless case to hydrodynamics. Orig. art. has: 2 figures and 26 formulas. [JPRS: 34,657]

SUB CODE: 20 / SUBM DATE: 08Jun65 / ORIG REF: 003 / OTH REF: 003

Card 1/1

B/035/62/000/007/060/083
A001/A101

3.2200

AUTHORS: Gurin, A. I., Yudina, I. V.

TITLE: Vertical motion of a rocket in a non-uniform gravity field with allowance for medium resistance

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 7, 1962, 98, abstract 7A744 ("Uch. zap. Mosk. gor. ped. in-ta im. V. P. Potemkina", 1960, v. 86, 77 - 107)

TEXT: The authors derive a differential equation for the motion of the rocket mass center in a non-uniform gravity field with allowance for medium resistance during the vertical translational rocket motion, assuming the movements of gas particles in the rocket to be steady. They determine the law of rocket velocity variation for various sections of the rectilinear trajectory of the mass center, coinciding with the Earth radius direction. The trajectory mentioned is divided into 3 sections: The 40 - 50 km section where air medium resistance can not be neglected, a section where gravity field can not be neglected, and at last an ideal section of the trajectory without gravity and medium resistance. There are 5 references.

Ye. Polyakhova

[Abstracter's note: Complete translation]

Card 1/1

GURIN, A.I., dotsent; YUDINA, I.V.

Vertical motion of a rocket in a nonuniform gravitational field taking the resistance of the medium into account. Uch. zap. Mosk. gor. ped. inst. 88:77-107 '60. (MIRA 16:3)
(Rockets (Aeronautics))

GURIN, A. I.

Amputation of both legs for gangrene caused by acute aortic obstruction. Khirurgiia 34 no.5:131-132 My '58 (MIRA 11:7)

1. Iz Brailovskoy uchastkovoy bol'nitsy Zhmerinskogo rayona Vinnitskoy oblasti.

(LMG, gangrene
bilateral amputation for gangrene caused by acute aortic obstruct (Rus))
(AMPUTATION,
legs, for gangrene caused by acute aortic obstruct (Rus))
(AORTA, diseases
acute obstruct. causing gangrene of legs, bilateral amputation (Rus))

GURIN, A.I.

Phlegmon of the vermiform appendix in an unusual location. Nov. khir. arkh. no.2:133 Mr-Ap '59. (MIRA 12:7)

1. Brailovskaya uchastkovaya bol'nitsa Vinnitskoy obl.
(APPENDICITIS)

GURIN, A.I.

Clinical aspects of acute retroperitoneal appendicitis. Khirurgiia 36 no.4:92-96 Ap '60. (MIRA 13:12)
(APPENDICITIS)

GURIN, A.I. (Moskva)

Stability of the motion of a gyroscope in gimbels with spring limiters and a damper. Inzh.zhur. 3 no.4:619-627 '63.
(MIRA 16:12)

GURIN, A. I.

Gurin, A. I. "An investigation of the stability of motion of a shaft on which a disk has been placed", Trudy Seminara po teorii mashin i mehhanizmov (Akad. nauk SSSR, In-t mashinovedeniya), Vol. VI, Issue 24, 1949, p. 5-26, - Bibliog:

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

SOV/124-57-7-7518

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 8 (USSR)

AUTHOR: Gurin, A. I.

TITLE: Some Problems of the Gyroscopic Stabilization of Instruments on Moving Supports (Nekotoryye voprosy giroskopicheskoy stabilizatsii priborov na podvizhnom osnovanii)

PERIODICAL: Uch. zap. Mosk. gor. ped. in-t, 1956, Vol 49, pp 17-60

ABSTRACT: The first two chapters formulate the laws governing the kinetics and dynamics of a rigid body and the equation of motion of universally mounted gyros. Chapter III, by means of the employment of the method of small amplitude oscillations, analyzes the stability of the axis of an astatic high-speed gyroscrope universally mounted on a stationary support and subject to elastic, corrective, and damping moments. The second part contains a description and operational analysis of an indicating gyroscopic stabilizer. The instrument to be stabilized has a horizontal axis of rotation passing through its center of gravity and is mounted on a support which oscillates in a vertical plane. This apparatus is affected by frictional forces. The sensing element of the stabilizer consists of two rigidly interconnected

Card 1/2

SOV/124-57-7-7518

Some Problems of the Gyroscopic Stabilization of Instruments on Moving Supports

horizontal gyros - one free, the other damping. A formula for the amplitude of the forced oscillations of the apparatus is derived, which demonstrates that this type of construction considerably lowers the amplitude of oscillations of the instrument as compared to the amplitude of oscillations of the support. The formulas contain typographical errors.

V. N. Skimel'

Card 2/2

GURIN, A.I.

124-11-12419

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p 14 (USSR)

AUTHOR: Gurin, A. I.

TITLE: On the Stability of Stationary and Convergent Motions.
(Ob ustoychivosti statsionarnykh i ustanovivshikhsya dvizheniy).

PERIODICAL: Uch. zap. Mosk. gor. ped. in-t, 1956, Vol 49, pp 69-97

ABSTRACT: In addition to a review of known scientific references, two problems in Mechanics are analyzed:
1) The stability of a gyroscopic monorail car. Solution by means of the customary method of the characteristic equations of motion.
2) The stability of the inertial motion of a rigid body having one fixed point about the minor diameter of its ellipse of inertia. The results obtained thereby are equivalent to Poinsot's results. The article does not contain the necessary indispensable references.
G. K. Pozharitskiy

Card 1/1

SOV/124-58-1-181

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 19 (USSR)

AUTHOR: Gurin, A. I.

TITLE: The Dynamic Balancing of Rotating Machine Parts (Dinamicheskaya balansirovka vrashchayushchikhsya chastey mashin)

PERIODICAL: Uch. zap. Mosk. gor. ped. in-ta, 1956, Vol 49, pp 99-111

ABSTRACT: The paper constitutes a methodical compendium on the balancing of machine rotors for students of pedagogical institutes engaged in a special physics lab course. The general principles of the balancing of an unbalanced rigid rotor are examined, and the general layout of a balancing machine is shown.

F. M. Dimentberg

Card 1/1

PHASE I BOOK EXPLOITATION SOV/5499

Gurin, A. I.

Osnovy mekhaniki tel peremennoy massy i raketodinamiki; ch. I. Uchebnoye posobiye (Principles of the Mechanics of Bodies With a Variable Mass and Rocket Dynamics; Pt. I. Textbook). Moscow, 1960. 225 p. Errata slip inserted. 1,000 copies printed.

Sponsoring Agency: Moskovskiy gorodskoy pedagogicheskiy institut imeni V. P. Potemkina.

Scientific Ed.: N. N. Nikitin.

PURPOSE : This textbook is intended for students of technical institutions of higher education. It may also be useful for self-instruction in theoretical mechanics.

COVERAGE: The book deals with the principles of mechanics of variable-mass bodies. In part it represents lectures given at the Moskovskiy gorodskoy pedagogicheskiy institut imeni V. P. Potemkina (Moscow City Pedagogical Institute imeni

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V. P. Potemkin). Some data on the development of rocket dynamics are given. The author thanks Professors V. V. Dobronravov and I. A. Panichkin and Docent N. N. Nikitin. There are 33 references: 26 Soviet (including 4 translations), 4 English, 2 German, and 1 Rumanian.

TABLE OF CONTENTS:

Q-4

USSR/Farm Animals. The Swine

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 50071

Author : Gurin A.I.
Inst : -
Title : Early Maturity of Swine and Their Assimilating of Mineral Substances.

Orig Pub : Vestn. s.-kh. nauku, 1957, No 6, 124-132

Abstract : Tests were performed with various groups of pure-bred large white sows and sows corssbred with boars of various breeds, such as Braith's breeds, Mangalica and Ukrainian steppe breeds, large black breeds, and Urzhum breeds. These tests were carried out during the time when the animals were fattened. They were started when the animals were 4 months old and were continued until the desired bacon, ham, and semilard stages were reached. Fracture strength of thigh bones was tested with the machine of Shopere. According to the indicators of bone strength it was established that

Card : 1/2

GURIN, A.I., zootekhnik.

Year-round calving of cows. Nauka i perëd.op.v sel'khoz. 7 no.7:21-22 J1 '57. (MLRA 10:8)

(Calves)

GURIN, A. I.: Master Agric Sci (diss) -- "Fattening of hybrid pigs on food scraps under the conditions of suburban farms". Moscow, 1959. 21 pp (Moscow Vet Acad of the Min Agric USSR), 200 copies (KL, No 10, 1959, 126)

GURIN, A.I. (Moskva)

Stability of the motion of an unbalanced gyroscope placed on a rotating platform. Inzh.zhur. 5 no.2:338-341 '65.

(MIRA 18:4)

L 2785-66 EWT(d)/FSS-2/EEC(k)-2/EED-2/EWA(c) AST/EC

ACCESSION NR: AP5021522 UR/0258/65/005/004/0603/0607
531.36

AUTHOR: Gurin, A. I. (Moscow) 21 B

TITLE: On the stability of gyroscopic and physical pendulums on a moving base

SOURCE: Inzhenernyy zhurnal, v. 5, no. 4, 1965, 603-607

TOPIC TAGS: gyroscopic pendulum, physical pendulum, gyroscopic pendulum stability, pendulum stability

ABSTRACT: The dynamic equations of motion for a gyroscopic pendulum (including the inertial effects of the Cardan supports), with its center of support moving along a sphere concentric with the earth sphere, are derived by the Lagrange method, and the stability criteria are established. Using the normal two moving rectangular coordinate systems, the total kinetic energy (including Cardan supports) and the potential energy function are evaluated, and the equations of motion are derived from the Lagrange equation in the form

$$\begin{cases} (A + A_1)\dot{p}_1 \cos\beta - (A + A_1) p_1 q_1 \sin\beta + C_1 \dot{r}_1 \sin\beta + A_2 \dot{p}_2 + \\ + (H_0 + C_1 r_1) q_1 \cos\beta + (C_2 - B) q_1 r_2 + (B_1 - C_2) r_2 \dot{\beta} - \\ - m z_0 v r_2 \cos\beta - F z_0 \sin\alpha \cos\beta = 0, \\ (A + B_1)\dot{q}_1 - [H_0 + (C_1 - A - A_1) r_1] p_1 + m z_0 v q_2 \sin\beta - \end{cases}$$

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ACCESSION NR: AP5021522

$$-Fz_0 \cos\alpha \sin\beta + mz_0\dot{v}\cos\beta = 0,$$
$$C\frac{d}{dt}(r_1 + \dot{\varphi}) = 0,$$

where

$$H_0 = C(r_1 + \dot{\varphi}) = \text{const.}$$

From the perturbed parameters, the Lyapunov functions are found in the form of linear combinations of the first integrals of the perturbed equations of motion, and the general sufficient conditions for stability with respect to all coordinates are established. These are simplified for the case of a balanced pendulum ($z_0 = 0$) and for the case in which the Cardan support inertia effects are neglected. The results of the latter simplification agree with the results of D. M. Klimov (Ob ustoychivosti dvizheniya nevozmushchayemogo fizicheskogo mayatnika. Prikl. matem. i mekhan., t. XXVIII, vyp. 2, 1964). Orig. art. has: 1 figure and 17 formulas.

ASSOCIATION: none

SUBMITTED: 29Dec64 ENCL: 00 SUB CODE: ME, NC

NO REF SOV: 007 OTHER: 000

Card 2/2 hcd

L 2944-66 EWT(d)/FSS-2/EEC(k)-2/EED-2/EWA(c) BC

ACCESSION NR: AP5021445 UR/0146/65/008/004/0091/0096

531.383

37
35
03

AUTHOR: Gurin, A. I. 44

TITLE: Stability of motion of a gyroscope mounted on a movable base

SOURCE: IVUZ. Priborostroyeniye, v. 8, no. 4, 1965, 91-96 44

TOPIC TAGS: gyroscope motion equation, motion stability

ABSTRACT: The author considers the motion of an unbalanced symmetric gyroscope in a Cardan suspension with spring-type limiters for the horizontal axle of the outside frame. It is assumed that the gyroscope is located on a movable platform which rotates with a constant angular velocity about the stationary vertical axis which passes through the bearing point of the gyroscope. The equation of motion for the gyroscope is given, taking consideration of the kinetic energy of the system and of the forct functions for gravity and for the elastic forces of the limiter springs. The stability of time-independent motion of the gyroscope is considered. The stability conditions are derived. The author solves the problem of the stability of

Card 1/2

L 2944-66

ACCESSION NR: AP5021445

motion of a gyroscopic pendulum in which the center of the Cardan suspension moves along the surface of the earth at a constant linear velocity. Orig. art. has: 1 figure, 24 formulas.

ASSOCIATION: Moskovskiy ordena Lenina aviatsionnyy institut im. S. Ordzhonikidze (Moscow "Order of Lenin" Aviation Institute)

SUBMITTED: 13Nov64 ENCL: 00 SUB CODE: ME, MA

NO REF SOV: 005 OTHER: 000

QC 2/2

Card 2/2

L 15290-66 EWT(d)/FSS-2/EWT(1)/EEC(k)-2 BC
ACC NR: AP6002624 SOURCE CODE: UR/0258/65/005/006/1098/1101

AUTHOR: Gurin, A. I. (Moscow)

ORG: none

TITLE: Stability of the motion of a gyroscope in a Cardan suspension with spring-loaded stops and damper located in a Newtonian central force field

SOURCE: Inzhenernyy zhurnal, v. 5, no. 6, 1965, 1098-1101

TOPIC TAGS: gyroscope, gyroscope motion equation, motion stability, gyroscope suspension

ABSTRACT: The stability of the motion of a gyroscope in a Cardan suspension with spring-loaded stops and damper located in a Newtonian central force field is considered. The attracting center is assumed to lie on the line passing through the fixed axis of the outer frame at a distance R (much larger than the dimensions of the gyroscope system) from the fixed point of the gyroscope. The position of the gyroscope is determined by the three Euler angles: ψ - the precession angle, θ - the nutation angle, and φ - the inherent rotation angle of the gyroscope, relative to the moving xyz coordinate system. The x and z axes are directed along the axis of the inner frame and along the gyroscope axis of symmetry such that the x axis always lies in the plane perpendicular to the fixed axis of the outer frame. The x, y, and z axes are taken as the principal axes of both the gyroscope and the inner frame, whose

Card 1/3

moments of inertia are respectively A, B, C and A_1, B_1, C_1 relative to the x, y, z axes. The moments of inertia of the outer frame are A_2, B_2, and C_2 relative to the x axis, to the axis perpendicular to the plane of the outer frame, and to the fixed axis of rotation of the outer frame. After the force functions of the central force field and the elastic forces of the springs acting on the gyroscope in the Cardan suspension are determined, the equations of motion for the system are written. The particular solution of these equations corresponding to the steady motion of the gyroscope is

$$\theta = \frac{\pi}{2}, \quad \psi = \frac{\pi}{2}, \quad \dot{\theta} = 0, \quad \dot{\psi} = 0, \quad \dot{\varphi} + \dot{\psi}\cos\theta = r, \quad \dot{\varphi} = \omega = \text{const} \quad \left(\text{for } \theta_0 = \frac{\pi}{2}, \ \psi_0 = \frac{\pi}{2}\right),$$

where θ_0 and ψ_0 are the constant values of the corresponding angles for which the elastic forces are absent. It is shown that sufficient conditions for stability of this motion are

$$z_1 < 0, \quad P^2 z_1 z_2 - \mu_2^2 > 0,$$

where

$$z_1 = z_0 + \frac{3g_0}{PR}(C + C_1 - A - B_1) - \frac{\mu_1}{P} = z_0' - \frac{\mu_1}{P}; \quad P = M g_0,$$

$$z_2 = z_0 + \frac{3g_0}{PR}(B_2 + C + C_1 - A - A_1 - A_2) - \frac{\mu_2}{P} = z_0'' - \frac{\mu_2}{P},$$

g_0 is the gravitational acceleration at the distance R from the attracting center, M is the mass of the gyroscope and inner frame, and μ_1, μ_2, μ_3 are constant coefficients satisfying the conditions $\mu_1 > 0, \ \mu_1\mu_3 - \mu_2^2 > 0$.

L 15290-66
ACC NR: AP6002624

Consideration of a damper creating a braking torque about the axis of rotation of the outer frame leads to similar results. Orig. art. has: 21 equations.

SUB CODE: 17, 20/ SUBM DATE: 28Jun65/ ORIG REF: 003

Card 3/3

L 51456-65 EEC-2/EWT(d)/FSS-2/EEC(k)-2/EWG(v)/EED-2/EWA(c) Pn-4/
Po-4/Pe-5/Pq-4/Pg-4/Pk-4/Pl-4 BC

ACCESSION NR: AP5011324 UR/0258/65/005/002/0338/0341 47
531.383 47
B

AUTHOR: Gurin, A. I. (Moscow)

TITLE: The stability of motion of an unbalanced gyro mounted on a rotating base

SOURCE: Inzhenernyy zhurnal, v. 5, no. 2, 1965, 338-341

TOPIC TAGS: gyro motion stability, unbalanced gyro, rotating base, damping gyro, spring arrester, horizontal housing frame, Cardan suspension, gyro motion equation, stability condition analysis

ABSTRACT: Expanding a previous report, the author analyses the stability of motion of an unbalanced symmetrical gyro with a Cardan joint suspension, spring arresters, a damper and a horizontal axis of the housing frame, mounted on a platform revolving around a fixed vertical axis. Compiling the Lagrange function L=T+U (T = system's kinetic energy, U = force function), the author obtains an equation describing the gyro's motion. An analysis of the stability of a gyro's steady-state motion indicates that stability conditions for a fixed-base gyro do not embrace moments of inertia of the rotor or the suspension frame. For a gyro mounted on a permanently rotating base, they embrace all axis

Card 1/2

L 51456-65
ACCESSION NR: AP5011324

ments of inertia of the rotor and frame. A system of inequalities is evolved to describe conditions of asymptotic stability of a damping gyro in relation to several variables. "In conclusion, the author expresses sincere gratitude to V.V. Rumyantsev for reviewing the manuscript and valuable remarks." Orig. art. has: 1 figure and 17 formulas.

ASSOCIATION: None

SUBMITTED: 15Jun64 ENCL: 00 SUB CODE: NG, ME

NO REF SOV: 002 OTHER: 000

Card 2/2

GURIN, A. P.

USSR/ Engineering - Boat assemblies

Card 1/1 Pub. 128 - 12/31

Authors : Gurin, A. P., Engineer

Title : Block assembly of tug boats

Periodical : Vest. mash. 35/5, 33-36, May 1955

Abstract : A new technological method - block method - introduced in 1952 for the assembly of tug boars is described. The economical gains offered by this method are listed. Drawing; illustrations; table.

Institution : .....

Submitted : .....

GURIN, A.S.; DROZDOV, L.V.; MOGILEVSKIY, M.M.; SHARGORODSKIY, S.G., inzh.-podpolkovnik, red.; ZUDINA, M.P., tekhn. red.

[Telephony] Telefoniia. Moskva, Voenizdat, 1963. 397 p. (MIRA 16:10)

(Telephone)

GURIN, A.V.

TOROPOV, Aleksandr Sergeyevich, kandidat tekhnicheskikh nauk; VOLCHANSKIY, P.A., nauchnyy redaktor; GURIN, A.V., redaktor; MATYSEVICH, N.L., tekhnicheskiy redaktor.

[Reinforcement work] Armaturnye raboty. Izd.2-oe, perer. i dop. Moskva, Vses.uchebno-pedagog.izd-vo Trudrezervizdat, 1956. 247 p. (MIRA 10:5)

(Reinforced concrete constructions)

IZHIKOV, Aleksandr Andreyevich, inzhener; SEDOV, Aleksandr Pavlovich, inzhener; GURIN, A.V., redaktor; KUZ'MIN, D.G., tekhnicheskiy redaktor

[Bricklaying and facing work] Kamennye i oblitsovochnye raboty. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1956. 262 p. (MLRA 9:12)
(Bricklaying)

GURIN, A.V

VOLOB'YEV, Vasiliy Aleksandrovich, prof. doktor tekhn.nauk; KOLOKOL'NIKOV, Vadim Sergeyevich, dots., kand.tekhn.nauk; SHCHEPETOV, A.M., nauchnyy red.; GURIN, A.V., red.; RAKOV, S.I., tekhn.red.

[Textbook on materials for builders] Materialovedenie dlia stroitelei. Moskva, Vses. ucheb.-pedogag. izd-vo Trudrezervizdat, 1957. 278 p. (MIRA 11:4)
(Building materials)

VOLCHANSKIY, Rostislav Andreyevich, kandidat tekhnicheskikh nauk; BESSER, Ya.R., nauchnyy redaktor; GURIN, A.V., redaktor; MATUSEVICH, N.L., tekhnicheskiy redaktor

[Manufacturing precast reinforced concrete elements] Izgotovlenie sbornykh zhelezobetonnykh konstruktsii i detalei. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1957. 291 p. (MIRA 10:11)
(Precast concrete)

GURIN, A.V.

NARTSISSOV, Vladimir Semenovich; ANOKHIN, G.A., nauchnyy red.; GURIN, A.V., red.; RAKOV, S.I., tekhn.red.

[Carpentry and joiner's work in collective farm building] Plotnichnye i stoliarnye raboty v kolkhoznom stroitel'stve. Moskva, Vses.uchebno-pedagog.izd-vo "Trudrezervizdat," 1957. 279 p. (MIRA 10:12)

(Carpentry)

GURIN, A. V.

KUKSOV, Vasiliy Alekseyevich; ORLOV, D.M., nauchnyy redaktor; GURIN, A.V., redaktor; OSTRIROV, M.S., tekhnicheskiy redaktor

[General technology of woodworking; materials] Obshchaia tekhnologiia derevoobrabotki; osnovy materialovedeniia. Moskva, Vses. ucheb.-pedagog.izd-vo Trudrezervizdat, 1957. 291 p. (MLRA 10:10)
(Woodwork) (Wood)

KUKSOV, Vasiliy Alekseyevich; ORLOV, D.M., nauchnyy red.; GURIN, A.V., red.; VLADIMIROVICH, A.G., red.; SAMUYLOVA, A.G., tekhn. red.

[Joinery] Stoliarnoe delo. Izd.2., perer. i ispr. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1958. 522 p. (MIRA 11:10)
(Joinery)

AVETIKOV, Aram Leonovich; SLUTSKIY, S.B., nauchnyy red.; GURIN, A.V., red.; TOKER, A.M., tekhn.red.

[Filling materials and fabrics for upholstered furniture] Miagkie elementy mebeli. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat, 1960. 121 p. (MIRA 13:12)
(Upholstery)

KUKSOV, Vasiliy Alekseyevich; GURIN, A.V., red.; RAKOV, S.I., tekhred.

[Training in carpentry] Prepodavanie stoliarnogo dela. Izd.2., ispr. i dop. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat, 1960. 319 p. (MIRA 13:5)
(Carpentry--Vocational guidance)

OSTAPENKO, Nikolay Nikolayevich; KIRILLOV, Nikolay Pavlovich; DANILEVSKIY, Vladimir Viktorovich; BEYZEL'MAN, R.D., nauchnyy red.; GURIN, A.V., red.; KLIMOVICH, Yu.G., red.; PERSON, M.N., tekhn.red.

[General technology of metals] Obshchaia tekhnologiia metallov. Izd.3., ispr. i dop. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat, 1960. 367 p. (MIRA 14:2)
(Metals) (Metalwork)

YELKIN, Nikolay Alekseyevich; TOSHCHAKOV, Lev Nikolayevich; TUDAROVSKIY, V.P., otv. red.; GURIN, A.V., red.; ROMANOVA, S.F., tekhn. red.

[Rectification using transistor devices] Detektirovanie na poluprovodnikovykh priborakh. Moskva, Sviaz'izdat, 1962. 55 p. (MIRA 16:4)
(Radio detectors) (Transistor circuits)
(Diodes)

BLOKHIN, A.S.; BORODZYUK, G.G.; LESHCHINSKIY, A.A.; OKSMAN, A.K.; KOSMINSKIY, O.F.; MANUSHKIN, A.Ye.; MILEVSKIY, Yu.S.; DRIATSKIY, N.M.; VASIL'YEV, V.V.; L'VOVICH, A.A.; ORLEYEVSKIY, M.S.; MOROZ, I.A.; OKSIAN, A.K.; KNEL', G.S.; SOROKIN, M.F.; BUTLITSKIY, I.M.; VASIL'YEV, L.N.[deceased]; GINTS, Yu.R.; VASIL'YEV, G.K.; LUGOVSKOY, N.Ye.; KIRILLOV, Ye.V.; STRUYKINA, N.S.; LEVINOV, K.G.;BLOKHIN, A.S., otv. red.; GURIN, A.V., red.; SLUTSKIN, A.A., tekhn. red.

[K-1920-frequency telephone system] Sistema vysokochastotnogo telefonirovaniia K-1920; informatsionnyi sbornik. [By]A.S.Blokhin i dr. Moskva, Sviaz'izdat, 1962. 319 p. (MIRA 16:4)
(Telephone)

GURIN, A.S.; KUZ'MIN, A.A.; DROZDOV, L.V.; MOGILEVSKIY, M.M.; GOLOVESHKIN, V.G. [deceased]; FROLOV, A.A.; GNUTIKOV, P.I., podpolkovnik; SOLOMONIK, R.L., tekhnicheskiy redaktor.

[Telephone] Telefoniia. Moskva, Voennoe izd-vo Ministerstva oborony SSSR, 1954. 583 p. [Microfilm] (MLRA 7:11)
(Telephone)

MATVIYENKO, A.; GURIN, P.

Improve the design of drilling machines. Bezop.trudа v prom. 2 no.3:38 Mr '58. (MIRA 11:3)

1. Glavnyy inzhener tresta Ukrvzryvprom (for Matviyenko). 2.Glavnyy mekhanik tresta Ukrvzryvprom (for Gurin).
(Boring machinery)

GURIN, Fedor Vasil'yevich, kand. tekhn. nauk; ANAN'YEV, Nikolay Vasil'yevich; SAMOKHOTSKAYA, E.A., ved. red.

[Nonserial ground-type conveyors used in the instrument and machinery industries] Neseriinye napol'nye konveiery, primeniaemye priborostroitel'noi i mashinostroitel'noi promyshlennostiami. Moskva, Gos.nauchn.-issl. in-t nauchn. i tekhn. informatsii, 1964. 39 p. (Mekhanizatsiia i avtomatizatsiia tekhnologicheskikh protsessov; materialy zavodskogo opyta, no.6) (MIRA 17:12)

GURII, Fedor Vasil'yevich, kand. tekhn. nauk; OSTROVSKAYA, L.V., ved. red.

[Feed mechanisms for semiautomatic machines and machine-tool units] Zagruzochnye ustroistva k poluavtomatam i agregatnym stankam. Moskva, [GOSINTI] 1964. 40 p. (Mekhanizatsiia i avtomatizatsiia tekhnologicheskikh protsessov; materialy zavodskogo opyta, no.2) (MIRA 17:11)

GURIN, Fedor Vasil'yevich, kand. tekhn. nauk; OSTROVSKAYA, N.V., ved. red.

[Feed mechanisms for grinding machines] Zagruzochnye ustroistva k shlifoval'nym stankam. Moskva, GOSINTI, 1964. 44 p. (Mekhanizatsiia i avtomatizatsiia tekhnologicheskikh protsessov; materialy zavodskogo opyta, no.1)
(MIRA 17:9)

GURIN, Fedor Vasil'yevich, kand. tekhn. nauk; OSTROVSKAYA, N.V., ved. red.

[Feed mechanisms for universal milling, screw- and gear-cutting machines] Zagruzochnye ustroistva k universal'nym frezernym, rez'bo- i zuboobrabatyvaiushchim stankam. Moskva, [GOSINTI] 1964. 38 p. (Mekhanizatsiia i avtomatizatsiia tekhnologicheskikh protsessov; materialy zavodskogo opyta, no.3) (MIRA 17:11)

GURIN, Fedor Vasil'yevich, kand. tekhn. nauk; OSTROVSKAYA, N.V., ved. red.

[Feed mechanisms for lathes, drilling and broaching machines; materials on plant practice] Zagruzochnye ustroistva k tokarnym, sverlil'nym i protiazhnym stankam; materialy zavodskogo opyta. Moskva, Gos. nauchn.-issl. in-t nauchn. i tekhn. informatsii, 1964. 30 p. (Mekhanizatsiia i avtomatizatsiia tekhnologicheskikh protsessov, no.4) (MIRA 17:12)

GURIN, Fedor Vasil'yevich, kand. tekhn. nauk; ANAN'YEV, Nikolay Vasil'yevich; SAMOKHOTSKAYA, E.A., ved. red.

[Overhead freight-carrying and freight-pushing conveyors used in the machinery industry] Podvesnye gruzonesushchie i gruzotolkaiushchie konveiery v mashinostroenii. Moskva, Gos. nauchno-issl. in-t nauchn. i tekhn. informatsii, 1964. 37 p. (Mekhanizatsiia i avtomatizatsiia tekhnologicheskikh protsessov; materialy zavodskogo opyta, no.10) (MIRA 18:3)

MASLOV, D.P., kand. tekhn. nauk, dots.; GURIN, F.V., kand. tekhn. nauk, dots.; KUZNETSOV, A.M., inzh.; VASIL'YEV, A.M., inzh.; LYKOV, A.G., inzh., retsenzent; PINSKER, A.L., inzh., red.; LESNICHENKO, I.I., red.; MODEL', B.I., tekhn. red.

[Technology in the motor-vehicle and tractor industry]Tekhnologiia avtotraktorostroeniia.[By]D.P.Maslov i dr. Moskva, Mashgiz, 1962. 432 p. (MIRA 16:2)
(Motor vehicles--Design and construction)
(Tractors--Design and construction)

AUTHOR: Gurin, I.A., Chief of Cutting Laboratory 130-8-15/20

TITLE: Improving the Operation of Tube Threading Dies (Uluchsheniye raboty trubonareznykh patronov)

PERIODICAL: Metallurg, 1957, No.8, pp. 35 - 36 (USSR).

ABSTRACT: The author gives a brief account of thread-cutting on tubes for the oil industry. The high-quality thread is produced with a special die (types TH4K, TH6K, TH8K, TH13K and TH16K) in a special machine tool in a single operation. Dies produced by the MIZ Works were found to clog frequently and were improved by providing openings round the circumference (Fig.2). An improvement in the arrangement for preventing excessive penetration of the coolant inside the tube was also effected (Fig.4). These measures enabled the capacity of a group of six machines to be increased by 150-160 tons per month. There are 4 figures.

ASSOCIATION: Works im. K Libknekht (Zavod imeni K. Libknekhta)

AVAILABLE: Library of Congress

Card 1/1

Gurin, I. A.

AUTHOR: Gurin, I.A. 130-12-19/24

TITLE: Thread Cutting on Tubes with Round Tapping Dies (Narezka rez'by na trubakh kruglymi plashkami)

PERIODICAL: Metallurg, 1957, No.12, p.31 (USSR).

ABSTRACT: The author outlines his investigation of the quality of round thread-tapping dies as used for threading the ends of tubes (6-13 inches in diameter) for the oil industry. Type TH8K and TH13K chucks are used. In the investigation, annual figures for the number of ends threaded by one set of dies were used, and these are tabulated by the author for 1949-1955. The table gives comparative data for 8 and 10-12 inch tubing, including die cost per end threaded. The table shows that 1955 die-set life was three times the 1949 life for 8 and twice the 1949 life for 10-12 inch tubes, the corresponding factors for the number of ends threaded between die-sharpening being 6.7 and 5.2. Soviet-made dies are said to have proved superior to imported ones. The author mentions some defects of die design.

ASSOCIATION: The imeni K. Libknekht Works (Zavod imeni K.Libknekhta)

AVAILABLE: Library of Congress

Card 1/1

[illegible], I.I.

"Pathoanatomical Changes in the Peripheral Nerves Distant From the Area of Their Trauma by Gunfire." Cand Med Sci, Kuybyshev State Medical Inst, Kuybyshev, 1955. (KL, No 14, Apr 55)

SO: Sum.No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

GRINBERG, Ya.M., dotsent; GURIN, I.L.

Infarcts perforating the ventricular septum. Klin. med. 32 no.10: 77-79 O '54. (MLRA 8:1)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. prof. N.Ye. Kavetskiy) i kafedry patologicheskoy anatomii (zav. prof. N.F. Shlyapnikov) Kuybyshevskogo meditsinskogo instituta.
(MYOCARDIAL INFARCT, complications,
interventric. septum rupt.)
(HEART,
interventric. septum rupt. in myocardial infarct)

S

USSR / Human and Animal Morphology (Normal and Pathological).
Histochemistry.

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 2910

Author : Gurin, I. L.
Inst : Kuybyshev Society of Anatomicopathologists with Section of Pathophysiologists

Title : A Histochemical Study of Sulfhydrylic Substances in Atherosclerosis and Hypertension

Orig Pub : Sb. nauchn. rabot Kuybyshevsk. o-va patologoanatomov s sektsiyey patofiziol. Kuybyshev, 1957, 112-118

Abstract : Thiolic substances were studied histochemically in the organs of 27 persons, 37 to 84 years of age, who died of hypertension and atherosclerosis of various types. The author concludes on the mosaicity in the distribution of sulfhydrylic substances among the various organs, their structural units and among

Card 1/2

Human and Animal Morphology (Normal and Pathological).
Histochemistry.

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 2910

S

parenchymatous elements and blood. The observations made, as well as the literary data, show that the results of the histochemical reaction, which express the histo- and cyto-topography of thiolic substances may indirectly indicate the quantitative charge of their content.

Card 2/2

10

GERMANOV, V.A.; GURIN, I.L.; PIKSANOV, O.N.

Case of eosinophilia in a patient with reticulosis. Probl. gemat. i perel. krovi 5 no. 10:55-57 '60. (MIRA 14:1)
(RETICULO-ENDOTHELIAL SYSTEM--DISEASES)
(EOSINOPHILES)

GURIN, I.L.; ANIKANDROV, B.V.

Endothelioma of the thyroid gland. Probl. endok. i gorm. 11 no.4:57-59 Jl-Ag '65. (MIRA 18:11)

1. Kafedra patologicheskoy anatomii (zav.- prof. N.F. Shlyapnikov) i kafedra fakul'tetskoy khirurgii (zav.- prof. G.L. Ratner) Kuybyshevskogo meditsinskogo instituta.

GURIN, I.S.

Device for storing and dispensing rubber goods. Apt. delo 12 no.6:59-60 N-D '63. (MIRA 17:2)

GURIN, Jozsef, dr.; LENART, Gyorgy, dr.

Evaluation of the Mayo operation in cases of hallux valgus.
Magy. sebesz. 16 no.6:391-395 D '63.

1. A Budapesti Orvostudomanyi Egyetem Orthopaediai Klinikajanak kozlemenye Igazgato: Glauber Andor dr. egyet. tanar.
(FOOT DISEASES) (HALLUX) (ARTHROPLASTY)
(POSTOPERATIVE COMPLICATIONS)

HUNGARY

ASZODI, Karoly, Dr, HORVATH, Ferenc, Dr, GURIN, Jozsef, Dr; Medical University of Budapest, Orthopaedic Clinic (director: GLAUBER, Andor, Dr, professor) (Budapesti Orvostudomanyi Egyetem, Orthopaed Klinika).

"Chronic Osteomyelitis Cases Resembling the X-Ray Morphology of a Tumor."

Budapest, Magyar Radiologia, Vol XVIII, No 2, Apr 66, pages 86-93.

Abstract: [Authors' English summary modified] The osteomyelitic patient material of the Clinic is analyzed. Diagnostic difficulties are, in general, encountered in cases of the myelogenous group of chronic osteomyelitis. Seven cases are described which resembled in part osteogenous or medullogenous sarcoma and in part a cyst. The pathomechanism of the periosteal reaction and spicule formation, so important in bone tumor diagnostics, as well as of the moth-hole structure of bone is discussed. The decisive importance of a histological examination in these cases is stressed. 7 Eastern European, 12 Western references.

GURIN, L.P.

Shaping the occlusal surfaces of teeth in removable prostheses made of quick-hardening plastics. Stomatologiia 38 no.3:68-70 My-Je '59. (MIRA 12:8)

1. Iz kafedry ortopedicheskoy stomatologii (zav. - dotsent M.R.Marey) Khar'kovskogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G.S.Voronyanskiy), eksperimental'noy laboratorii (zav. V.D.Bezuglyy, nauchnyy konsul'tant - dotsent A.E.Rofe) Khar'kovskogo zavoda zubovrachebnykh materialov (dir. Ye.G.Aronov).

(DENTAL PROSTHESIS)

GURIN, L.P. (Khar'kov)

Increase of the masticatory effectiveness of removable partial lamellar prostheses. Probl.stom. 6:297-303 '62. (MIRA 16:3)

(DENTAL PROSTHES) (MASTICATION)

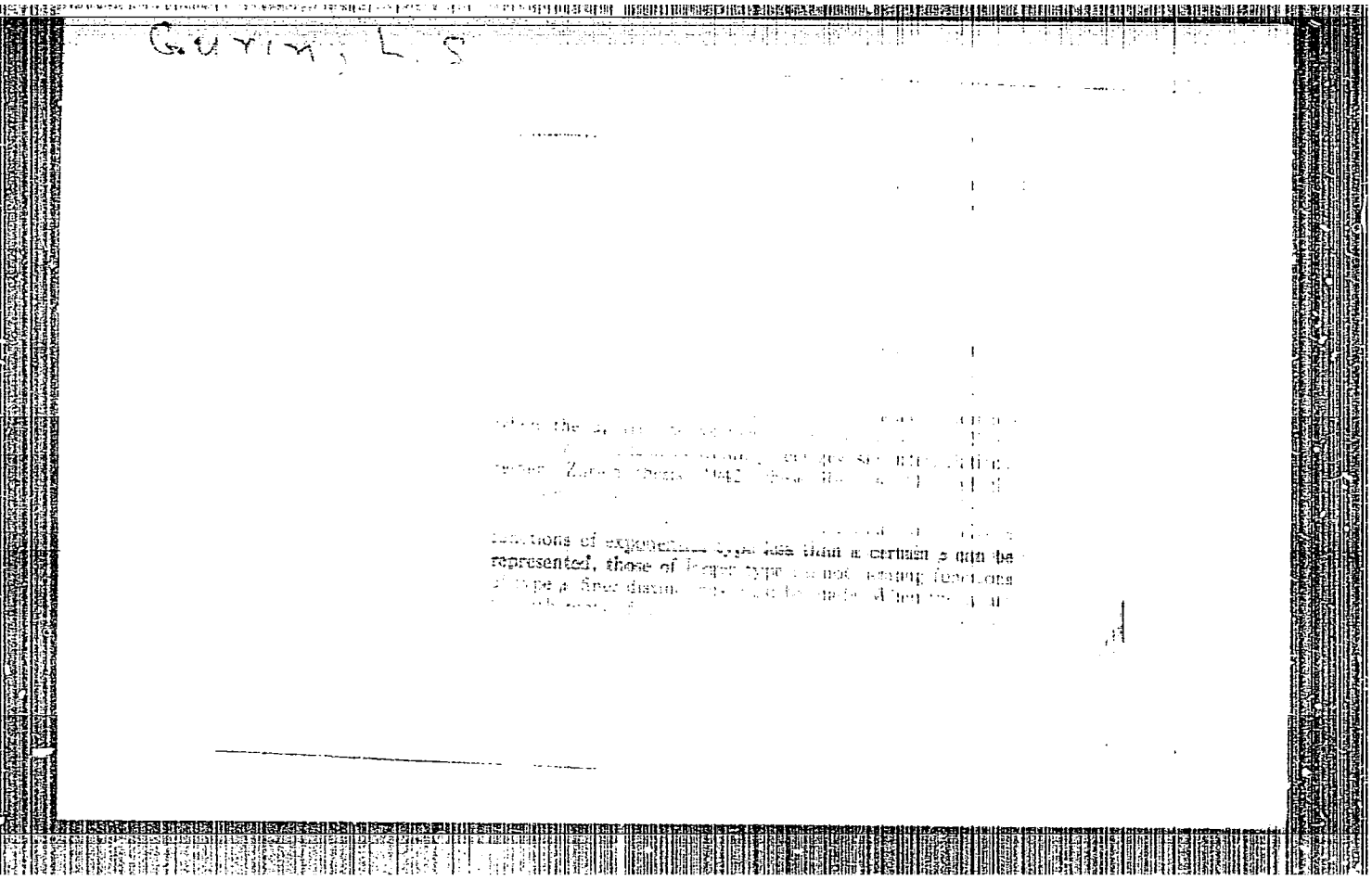
MOROZOVA, Ye.M., dotsent; SLUTSKAYA, M.M., dotsent; GURIN, L.P., dotsent; ALKHAZOV, I.I., assistent

Organization and development of the Stomatological Faculty of the Stavropol Medical Institute. Uch. zap. Stavr. gos. med. inst. 12:430-431 '63. (MIRA 17:9)

GURIN, L.P. dotsent

Formation of occlusion surfaces of the teeth in removable bridges made from ACT-1, A plastics. Uch. zap. Stavr. gos. med. inst. 12:444-446 '63. (MIRA 17:9)

1. Kafedra ortopedicheskoy stomatologii (zav. dotsent L.P. Gurin) Stavropol'skogo gosudarstvennogo meditsinskogo instituta.



GURIN, L. S.

Gurin, L. On the permutability of averaging and transforming [illegible] Mathematical Reviews [illegible]

The author considers a given function $f(x_1, \cdots, x_n)$ and a set of [illegible]

(*) $\bar{x}_i = U(x_1, \cdots, x_n), \quad \bar{w}_i(\bar{x}_1, \cdots, \bar{x}_n) = w_i(x_1, \cdots, x_n),$

with suitable assumptions concerning differentiability and nonvanishing of Jacobians. He also defines an averaging process for sets $(x_1, \cdots, x_n)$, $i = 1, \cdots, N$, and values t_i satisfying $\sum_{i=1}^{N} t_i = 1$, by

(**) $f(x_{1m}, \cdots, x_{nm}) = \sum_{i=1}^{N} t_i f(x_{1i}, \cdots, x_{ni})$

where the x_{im} are fixed constants and the subscript m is used to denote the [illegible]. It is shown [illegible] exists a function $\phi_i(x_1, \cdots, x_n)$ such that $f(\phi_1, \cdots, \phi_n) = \bar{f}$, $\bar{x}_i = Cx_i + D$, $\bar{w}_i = w_i$, where C, D are constants.

E. F. Beckenbach (Los Angeles, Calif.)

Source: Mathematical Reviews, Vol 13 No. 10

ACC NR: AP6033938 SOURCE CODE: UR/0280/66/000/004/0045/0055

AUTHOR: Likhterov, Ya. M. (Moscow); Gurin, L. S. (Moscow)

ORG: none

TITLE: Probability of segment overlap in a system of random segments

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 4, 1966, 45-55

TOPIC TAGS: probability, detection probability, Poisson distribution, set theory, atmospheric cloud, cloud cover

ABSTRACT: The probability of overlapping a nonrandom line segment by a system of random segments is considered. The solution of this problem is applied to the calculation of the probability of object detection in clouds. The problems of overlapping may be different in terms of the properties of the random segments system, the meaning of the "overlapping" concept, and the properties of overlapping. The paper deals with one such problem. The origins of the segments form a Poisson set of points, the length of which are in agreement with a given arbitrary distribution. The properties of overlapping are defined by the probability that the conditions constituting overlapping are fulfilled. The mathematical techniques developed for the solution of this problem allow for generalization toward other definitions and other properties of the overlapping. The visual observation of above-ground and above-water objects remains, despite

Card 1/2

ACC NR: AP6033938

the availability of various technical aids, one of the main means for detection and recognition. The observation is always accompanied by the presence of one or another disturbance. With respect to the majority of factors causing disturbances in technical aids, the visual observation is disturbance-proof. There exist, however, factors which generate disturbances of visual observation. Such factors are fog, cloud cover, and various types of camoflage. The solution of the problem of overlapping is applied to the construction of a mathematical model of visual object observation under conditions of cloud cover. More precisely, a model which is designed for computation of detection probability of an aircraft in the presence of clouds. It is assumed that in the absence of clouds the probability of such detection equals one. Orig. art. has: 51 formulas.

SUB CODE: 12/ SUBM DATE: 17Feb66

Card 2/2

ACC NR: AP6028535 SOURCE CODE: UR/0280/66/000/003/0038/0045

AUTHOR: Gurin, L. S. (Moscow)

ORG: none

TITLE: Random search in the presence of noise

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 3, 1966, 38-45

TOPIC TAGS: random process, optimal control, random noise signal, circuit design

ABSTRACT: In this article an analysis is made of one of the possible approaches to the solution of a problem involving the location of the global extremum of a function in a noise environment in the specific formulation of this problem as presented by D. B. Yudin (P. Izv. AN SSSR, Tekhnicheskaya kibernetika, 1966, No. 1). A method, originally proposed by I. Matyash (Avtomatika i telemekhanika, 1965, vol. XXVI, No. 2), is generalized to apply to a noise situation. A method is advanced for the optimization of multi-extremal functions with superposed additive noise. Only the convergence of the process is studied. Further investigation is recommended with respect to the optimal (in one sense or another) organization of this process, as well as the possible use of self-instruction techniques for this purpose. Orig. art. has: 32 formulas.

SUB CODE: 09,17/ SUBM DATE: 21Mar66/ ORIG REF: 002

Card 1/1

16(1)

AUTHOR: Gurin, L.S. (Moscow)

SOV/39-47-2-5/6

TITLE: On the Question Concerning the Interchangeability of Averaging and Reduction (K voprosu o perestanovochnosti osredneniya i privedeniya)

PERIODICAL: Matematicheskiy sbornik,1959,Vol 47,Nr 2, pp 237-254 (USSR)

ABSTRACT: Let a random variable ξ with a certain,generally unknown law of distribution and a monotonely increasing function $f(x)$ be given. The approximative value of the mathematical expectation of $f(k\xi)$, where k is given, is to be determined from the known mathematical expectation of $f(\xi)$.
Let $f(x)$ be defined on $[0,a]$, $a>1$, $f(0) = 0$, $f(1) = 1$; furthermore let x_i $(i = 1,2,..,n)$ be points of $[0,1]$ and t_i nonnegative numbers, $\sum_{i=1}^{n} t_i = 1$. The mean value $\bar{x}$ is defined by

$$f(\bar{x}) = \sum_{i=1}^{n} t_i f(x_i) .$$ Let

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On the Question Concerning the Interchangeability of Averaging and Reduction

SOV/39-47-2-5/6

$$\Delta_k^f = \sup \left| f(k\bar{x}) - \sum_{i=1}^{n} t_i f(kx_i) \right|$$

Theorem: Δ_k^f vanishes for all k only if $f(x) = x^n$, where n is an arbitrary positive number.

Theorem: If $f(x)$ is continuously differentiable on $[0,a]$ and if there exist constants c and δ with the property

$$\left| \frac{xf'(x)}{f(x)} - c \right| \leq \delta \text{ then it holds } \Delta^f \leq 2\delta ,$$

where Δ^f is the right derivative of Δ_k^f with respect to k in the point $k = 1$.

There is 1 Soviet reference.

SUBMITTED: May 9, 1956

Card 2/2

GURIN, L.S. (Moskva)

Optimization in stochastic models. Zhur. vych. mat. i mat. fiz. 4 no.2:367-370 Mr-Ap '64. (MIRA 17:7)

[redacted], I. V. (Moskva)

Problem of optimization in stochastic models. Zhur. vych. mat. i mat. fiz. 4 no.6:1134-1137 N-D '64. (MIRA 18:2)

L 8201-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)
ACC NR: AP5023114 SOURCE CODE: UR/0103/65/026/009/1546/1552

AUTHOR: Gurin, L. S. (Moscow, Riga); Rastrigin, L. A. (Moscow, Riga)

ORG: none

TITLE: Convergence of the random search method when noise is involved

SOURCE: Avtomatika i telemekhanika, v. 26, no. 9, 1965, 1546-1552

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory

ABSTRACT: A linear form of the performance function of an optimized system is considered, and the rate of convergence of the random-search method is compared with that of the gradient method. The convergence of the search process is largely determined by this "desired-signal-to-noise ratio": $\delta = \frac{|\text{grad } Q|g}{\sigma\sqrt{2}}$, where $\Omega(x)$ is

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UDC: 621.391.161

the performance function, g is the dither in the parameter space, and σ is the dispersion. Formulas describing the algorithms for both methods are developed. It is found that, in the random-search method, the search loss is proportional to (a) the noise level and (b) the number of variables of the optimized system. The random-search method is found to be more efficient than the gradient method for 6 variables or less. Orig. art. has: 2 figures and 41 formulas.

SUB CODE: 09, 13 / SUBM DATE: 11Aug64 / ORIG REF: 001 / OTH REF: 001

GURIN, L.S., kand. tekhn. nauk, inzh.-podpolkovnik

Significance of the accuracy of initial probabilities in calculations of the effectiveness of means of combat. Mor. sbor. 48 no.2:28-34 F '65. (MIRA 18:11)

BAKAY, Endre, dr.; GURIN, Jozsef, dr.

Multiple bone necrosis due to caisson disease. Orv.hetil. 102 no.35: 1653-1655 27 Ag '61.

1. Budapesti Orvostudomanyi Egyetem, Orthopaediai Klinika.

(DECOMPRESSION SICKNESS compl)
(BONE DISEASES etiol)

GURIN, L., kand.ekon.nauk; TAKUSHENKOV, A., kand.tekhn.nauk

Introduce new specialties rather than redescribe the old. Mor. flot 22 no.2:15 F '62. (MIRA 15:4)

(Merchant seamen)

KHABUR, B., starshiy nauchnyy sotrudnik; GURIN, L., kand.ekonomicheskikh nauk

Problems calling for solution. Mor. flot 22 no.7:15-17 Jl '62. (MIRA 15:7)

1. Zamestitel' direktora TSentral'nogo nauchno-issledovatel'skogo instituta morskogo flota po nauchnoy rabote (for Khabur). 2. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota (for Gurin).

(Merchant seamen-labor productivity)
(Weekly rest-day)

GURIN, L. P.

Cand Med Sci - (diss) "Formation of occlusion surfaces of teeth in removable prosthesis made from rapid-hardening plastic AST-1." Khar'kov, 1961. 14 pp; (Ministry of Public Health Ukrainian SSR, Khar'kov State Med Inst); 200 copies; free; (KL, 7-61 sup, 258)

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I040/1219

AUTHOR: Gurin, L. S. and Lobach, V. P.

TITLE: A combination of the Monte-Carlo and steepest descent methods for solving some extremum problems

PERIODICAL: Zhurnal vychislitel'noy matematiki i metematicheskoy fiziki, v. 2, no. 3. 1962, 499–502

TEXT: Given $n \geqq 3$ points (x_i, y_i) in the plane and n positive weights K_i, the problem is to minimize the function

$$f(a_1, b_1, a_2, b_2, \ldots, a_m, b_m) = \sum_{i=1}^{n} k_i \sqrt{(x_i - a_{j(i)})^2 + (y_i - b_{j(i)})^2}$$

$m < n$, where (x_i, y_i) is attached to the nearest point $(a_j b_j)$ denoted $(a_{j(i)}, b_{j(i)})$. For $m = 1$ (Steiner problem) the algorithm proposed is based on the method of steepest descent. From the center of gravity we move in the antigradient direction successively with the same quantity Δ_0. If the new point is not the solution, we continue either in the same direction or in a new one with rotation angle greater than 45°. For $m > 1$, the Monte-Carlo method is combined with the above method by choosing an initial point in a random method and proceeding from this point by the method of steepest descent until a local minimum is reached. Since this minimum depends upon the initial point, many trials are made with various initial points chosen at random and the minimum is chosen to the be smallest of the local minima.

SUBMITTED: February 2, 1961

Card 1/1

GURIN, L.S.; RASTRIGIN, L.A.

Convergence of a random search method under noise conditions. Avtom. i telem. 26 no.9:1546-1552 S '65. (MIRA 18:10)

GURIN, L.Ye.

[Labor organization and wages in industrial enterprises] Planirovanie truda i zarabotnoi platy na promyshlennom predpriiatii. Leningrad, Lenizdat, 1957. 82 p. (MIRA 12:4)
(Efficiency, Industrial) (Wages)

GURIN, L.Ye.; TSVENEV, V.L., inzh., retsenzent; PETROV, B.S., prof., doktor ekonom.nauk, red.; MIROSHNICHENKO, E.A., red.izd-va; BORODULINA, I.A., red.izd-va; SPERANSKAYA, O.V., tekhn.red.

[Wage paument system in a machinery manufacturing enterprise] Organizatsiia zarabotnoi platy na mashinostroitel'nom predpriiatii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1960. 178 p. (MIRA 13:11)
(Machinery industry) (Wage payment systems)

ZAYCHENKO, Petr Aleksandrovich; GURIN, L.Ye., kand. ekon. nauk, red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Method for achieving high labor productivity in each job by the P.A. Zaichenko and A.F.Loginov method] Metod dostizheniia vysokoi proizvoditel'nosti truda na kazhdom rabochem meste, metod P.A.Zaichenko i A.F. Loginova. Leningrad, 1961. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Opyt novatora. Seriia: Organizatsiia i ekonomika proizvodstva, no.5) (MIRA 14:8)

(Leningrad—Machinery industry—Labor productivity)
(Socialist competition)