MEL'NIK, R.I.; SERGEYEV, V.A.; PICHUGIN, L.M.

7月5日代出

Reproduction of the virus of foot-and-mouth disease in the culture of surviving tissues of cattle and swine. Veterinariia 41 no.8:13-16 Ag '64. (MIRA 18:4)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy virusologii i mikrobiologii.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548110016-4

FOZDNYAKOV, A.A.; SERGEYEV, V.A. Cultivation of Newcastle disease virus in the suspension of trypsinized tissue cells of chick embryos, Vop. virus. 10 no.3:338-343 My-Je '65. (MTRA 18:7). 1. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy virusologit i mikroblologit, Moskva.

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SERGEYEV, V.A.; KHIZHINSHAYA, V.F.

利益的治疗发展和自己的

的时间的日本公司

Multiplication of the virus of fcct-ind-mouth disease in a suspension of trypsinized cells of animal renal tissue. Veterinariia 41 no.2:18-21 F '65. (MIRA 18:3)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy virusologii i mikrobiologii.

APPROVED FOR RELEASE: 08/23/2000



SERGEYEV, V.D.

Boilers

Increasing the capacity of Schuckow-Berlin boilers model A-7. Energ.Biul. No.2,1952 Monthly List of Russian Accessions, Library of Congress, May 1952, UNCLASSIFIED

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548110016-4"

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CIA-RDP86-00513R001548110016-4

USSR / Human and Animal Physiology. The Nervous System. T Abs Jour: Ref Zhur-Biol., No 9, 1958, 41732. Sergeyev, V. F. Author : Not Given. Inst . The Structure of Temporary Associations Between Title Verbal and Objective Stimuli. Orig Pub: Dokl. Akad. ped. nauk RSFSR, 1957, No 1, 121-124. Abstract: The association between an object (hammer) and the synonyme of its name (bench-hammer) was consolidated in 60 children of kindergarten (first group) and younger school age (second group). Upon presentation of the object a conditioned motor reaction was elaborated. The associating Card 1/2

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Circuit for automatic switching-over to an emergency lighting system. Elek. i tepl. tiaga 4 no.5:12 My '60. (MIRA 13:7)

(Factories--Lighting)



APPROVED FOR RELEASE: 08/23/2000



APPROVED FOR RELEASE: 08/23/2000

SOV/137-57-10-19803

- Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 194 (USSR)
- AUTHOR: Sergeyev, V.G.

- TITLE: The Hardness of Steel Coatings Applied by Production Cathode Sputtering Equipment (Tverdost' stal'nykh elektrometallizatsionnykh pokrytiy, napylennykh apparatami vysokoy proizvoditel'nosti)
- PERIODICAL: Sb. nauchno-issled. rabot. Tashkentsk. tekstil'n. in-t, 1956, Nr 3, pp 110-115
- ABSTRACT: The relationship of the hardness of coatings (HC) applied by production cathode sputtering equipment to the conditions of metallizing are investigated. It is found that HC depends upon the spraying conditions and the speed of the equipment. HC declines as speed rises. To obtain high HC with wire 2.4-2.5 mm in diameter the following metallizing procedure is recommended: 100 mm distance between nozzle and surface to be coated, 6 atm pressure, 28 volt potential, 210 amps current, rate of spraying 1.46-1.65 m/min. It is recommended that HC

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GAL'PERIN, M.Ye.; SERGEYEV, V.I.

Vascular reactions in patients with æute and chronic dysentery. Vrach.delo no.3:319 Mr '60. (MIRA 13:6)

1. Kafedra infektsionnykh bolezney Kurskogo meditsinskogo instituta.

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GAL'PERIN, M.Ye., dotsent; SERBEYEV, V.I., assistent Influence of bromine and caffeine on the vascular reaction in patients with acute and chronic dysentery. Shor. trud. Kursk. gos. med. inst. no.13:211-213 '58. (MIRA 14:3) 1. Iz kliniki infektsionnych bolezney (zav. - dotsent M.Ye.Gal'perin) Kurskogo gosudarstvennogo meditsinskogo instituta. (BROMINE_PHYSIOLOGICIAL EFFECT) (CAFFEINE_PHYSIOLOGICAL EFFECT) (REFLEXES) '1'. (DYSENTERY)

APPROVED FOR RELEASE: 08/23/2000

SERGEYEV, V.I., uchitel'

Laboratory table for the chemistry study room. Khim. v shkole (MIRA 14:6) 16 no.2: 53-55 Mr-Ap '61.

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Syrednyaya shkola No.12, Kazan'. (Chemical laboratories--Equipment and supplies)

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SERGEYEV, Vasiliy Ivanovich; VERB, L.M., red.

[Components of communication apparatus and devices; lectures for students of the technical departments of communications institutes] Detali priborov i apparatov sviazi; lektoii d ia studentov tekhnicheskikh fakul'tetov institutov sviazi. Moskva, Vses. zaochnyi elektrotekhn. in-t sviazi, 1961. lõl p. (LIRA 17:7)

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SOV/124-58-4-3758 Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr4, p13(USSR) AUTHOR: Sergeyev, V.I. TITLE: Calculation of the Precision of Performance of a Conical Centrifugal Governor (Raschet tochnosti raboty konicheskogo tsentrobezhnogo regulyatora) PERIODICAL: Tr. Seminara po tochnosti mekhanizmov i mashin. In-t mashinoved. AN SSSR, 1954, Nr 7, pp 39-53 ABSTRACT: Bibliographic entry 1. Mechanical governors--Performance 2. Mathematics

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PHASE I BOOK EXPLOITATION SOV/2594

Akademiya nauk SSSR. Institut mashinovedeniya. Seminar po tochnosti v mashinostroyenii i priborostroyenii

Trudy, vyp. 8 (Transactions of the Institute of Mechanical Engineering, Academy of Sciences, USSR. Seminar on Accuracy in Machinery and Instrument Design; No. 8) Moscow, Izd-vo AN SSSR, 1955. 78 p. 1,800 copies printed.

Ed. of Publishing House: V.V. Pobedimskiy; Tech. Ed.: Ye.V. Makuni; Editorial Board: N.G. Bruyevich, Academician (Resp. Ed.); G.G. Baranov, Doctor of Technical Sciences; M.L. Bykhovskiy, Candidate of Technical Sciences; A.P. Vladziyevskiy, Candidate of Technical Sciences, I.Ye. Gorodetskiy, Doctor of Technical Sciences; and A.S. Shatalov, Doctor of Technical Sciences.

PURPOSE: The collection of papers is intended for scientific research workers, engineers, and designers.

COVERAGE: This collection of articles deals with the following topics: an application of the principle of virtual displacements in kinematics, accumula-

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Transactions (Cont.)	SOV/2594
The article explains the possible ways in whi single gears in a gear train can occur. Simp criteria are presented.	ch the accumulation of errors of a le formulas which can be used as
Sergeyev, Y.I. Design of a Wire Rope Transmiss: Specific features of design for accuracy are calculating errors for a single transmission of the same design are presented. The effect discussed.	discussed, and formulas for and for a number of transmissions
Pinsker, I.Sh. Presentation of Functions of Max Multiplying, and the Simplest Functional Device The author presents a number of methods for different combinations of functions with one methods are applicable to cases in which the three variables. Adders, multipliers, and su used.	expanding a given function into or one and two variables. The given functions have two and
Fil'kin, V.P. Problem of Inspection for Roundn Section	ess of Parts of Circular Cross

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SERGEYEV, V.I.

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Activities from mid-1953 to mid-1955 of the Laboratory Seminar on Precision Machines and Instruments of the Mashinery Research Institute under the Academy of Sciences of the U.S.S.R. Izv. AN SSSR. Otd. tekh. nauk. no.12:150-152 D *55. (MIRA 9:3) (Mechanical engineering)

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SERGEYEV, V.I.

Measuring angular velocity and accleration by means of friction-type tachometers and accelerometers. Izm.tekh.no.2:33-36 Mr-Ap ¹56. (Tachometer) (Accelerometers) (MIRA 9:7)

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On the Probability Characteristics of Mechanisms Having Several Forms (cont.)
some stationary random pattern, then the use of one or another type of ad- justment can affect substantially the behavior of said random pattern, even converting it in a number of cases into a nonstationary pattern.
L.K.Gordiyenko 1. Mechanical drivesDesign 2. Mechanical drivesControl 3. Control systemsPerformance 4. MathematicsApplications
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III MULTINA MARANA ANTARA A

24-11-23/31 Certain comparative characteristics of the accuracy of differential friction mechanisms.

be improved by feeding into the armature of the servo-motor a voltage complying with a relation specified in the paper and for this case the relations governing the functioning of this circuit can be expressed by the differential equations, Eq.(3), p.174. In this paper a comparative analysis is made of the operation of these three The carried out calculations differentiating mechanisms. show that for a characteristic regime, for the variant shown in Fig.3, the speed of damping of the transient process is four times as high as for that shown in Fig.1 and three times as high as for that shown in Fig.2. Simultaneous utilisation of the derived relations, Eqs.(5a), (5b), (6a), (6b) and (7) and the relations plotted in Fig.4 permit qualitative investigation of the relative accuracy of the operation of various circuits of automatic friction mechanisms even in the drawing board stage of the design. There are 4 figures and 4 references, all of which are Slavic.

SUBMITTED: April 6, 1957. AVAILABLE: Library of Congress. Card 2/2

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SERGEYEV, V.I. sov/1394 PHASE I BOOK EXPLOITATION 63,4 28(2)Institut mashinovedeniya Akadeniya nauk SSSR. Voprosy sinteza i tochnosti slozhnykh ustroystv nepreryvnogo deystylya (Synthesis and Accuracy of Complex Mechanisms for Continuous Operation) Moscow, Izd-vo AN SSSR, 1958. 226 p. 3,500 copies printed. Resp. Ed.: Bruyevich, N.G., Academician; Ed. of Publishing House: Icffe, D.M.; Tech. Ed.: Golubeva, V. PURPOSE: The book is intended for scientific research workers and engineers concerned with computers. COVERAGE: This book is a collection of articles divided into two parts. The three articles of the first part deal with the synuls is and acouracy of complex mechanisms for computers, functional investigation, inputs and outputs, methods of synthesis in solving implicit functions and accuracy of the process of manufacturing parts. The second part of the book Card 1/4

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Synthesis and Accuracy (Cont.)

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contrains seven articles dealing with the accuracy of some particularly simple mechanisus: caus, gears, etc., and their design for accuracy. The articles are based on experimental material which shows that the theoretical premises and conclusions were confirmed by practical tests. The book is based on scientific work carried out by the authors in 1955-56. The authors thank the following for reviewing the book: N.Ye. Kobrinskiy, N.I.Pohel'nikov, and A.A. Feldbaum, Proressors and Doctors of Technical Sciences; B.G. Dostupov, Desent, Doctor of Technical Sciences; T.A. Golinkevich, A.I. Ivantsov, Yu.V. Lubatov, and I.F. Seregin, Docents, Candidates of Technical Sciences; B.M. Tseytlin, Candidate of Technical Sciences. The author also thanks Professor, Doctor of Technical Sciences G.G. Baranov for assistance on problems of simple mechanisms, and N.P. Ivanzikov for working on the second part of the book. There are 87 references, all Soviet.

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SOV/24-58-7-14/36

Sergeyev, V.I. (Moscow)

A THE REAL AND THE

On One Method of Calculating the Amplitude of Self-excited AUTHOR: Oscillations (Ob odnom sposobe rascheta amplitud avto-TTTLE: kolebaniy)

Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, 1958, Nr 7, pp 90 - 93 (USSR) PERIODICAL:

ABSTRACT: The method is based on the equivalent linearisation of non-linear oscillatory systems (Refs 1-3). The following system is discussed and it is assumed that it contains a non-linear link with single-valued characteristics consisting of straight-line segments. As typical examples are chosen, firstly, a link with a zone of insensitivity (Figure 2) and, secondly, a link with a zone of saturation (Figure 3). Both these non-linearities are included in the characteristics of the electric motor. The analysis of the second case, described very briefly, follows closely that of the first case which is discussed in more detail. An expression for the non-linear link is substituted into the moment equation for the electric motor. From this equation and that for the armature the characteristic

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On One Method of Calculating the Amplitude of Self-excited equation for the system is derived. From the characteristic Oscillations equation an alternative expression for the non-linear link is obtained. By equating the two expressions, Eq (12) is obtained in which the right-hand side contains only the parameters of the system. Denoting this right-hand side by G_1 the amplitude can be determined as follows: 1) from the given values of the parameters of the system the quantity G_1 is determined; from the graph of Figure 4 the value of the ratio $b/a = f(G_1)$ is read off and, finally, is found. 3) the oscillation amplitude $a = b/f(G_1)$ The case is also considered when a non-periodic disturbing force is present. The method of calculation is essentially the same, except that in the non-linear characteristic there is an unknown constant component, which must be determined in addition to the amplitude before the error Card 2/3

SOV/24-58-7-14/36

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On One Method of Calculating the Amplitude of Self-excited Oscillations of the system can be found. There are 4 figures and 4 Soviet references.

SUBMITTED: February 20, 1958

Card 3/3

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SE. RCEYEN, V.E. SOV/2565 PHASE I BOOK EXPLOITATION 25(2) Institut mashinovedeniya. Seminar po tochnosti Akademiya nauk SSSR. v mashinostroyenii i priborostroyenii Trudy, vyp. 12 (Transactions of the Institute of Mechanical Engineering, USSR Academy of Sciences. Seminar on Accuracy in Machine and Instrument Building, Nr 12) Moscow, Izd-vo AN SSSR, 1959. 70 p. Errata alip inserted. 2,500 copies printed. Ed. of Publishing House: M.D. Dobshits; Tech. Ed.: N.F. Yegorova; Editorial Board: N.G. Bruyevich, Academician (Resp. Ed.); G.G. Baranov, Doctor of Technical Sciences; M.L. Bykhovskiy, Doctor of Machades, Sciences; A.B. Washerburg, Doctor of Doctor of Technical Sciences; A.P. Vladziyevskiy, Doctor of Technical Sciences; and A.S. Shatalov, Doctor of Technical PURPOSE: This book is intended for engineers concerned with accuracy in machines and instruments. This is a collection of scientific papers dealing with the COVERAGE: Card 1/5

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Transactions (Cont.) Sov/2565 accuracy and adjustment of various devices. The subjects discusse include calculating the accuracy of bearing subassemblies in precision mechanisms constructed in the form of shafts assembled on two radial bearings, calculating accuracy in computing devices with two degrees of freedom, design and adjustment of pheuma tic gages, synchronizing the rotation of driving and driven shafts in universal joint drives, analysis of the process of forming parts by centerless grinding, and the effect of self-oscillations parts with automatic drive for multiplying two scalar quan- tities.	
TABLE OF CONTENTS: <u>Sergevev, V.I.</u> On Calculating the Accuracy of Bearing Subassemblies in Mechanisms Constructed in the Form of Shafts Mounted on Two Rolling-Contact Radial Bearings Rolling-Contact Radial Bearings The author investigates errors resulting from the total axial The author investigates errors resulting from the total axial displacement of rotating shafts of mechanisms used in precision	s 3
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Section 200

Transactions (Cont.)

SOV/2565

instruments and discusses methods of adjustment for improving the accuracy of mechanisms. There are no references.

Lyubatov, Yu.V. On Calculating the Accuracy of Computing Mechanisms 13

With Two Degrees of Freedom The author discusses some problems concerning the effect of adjustment of computing mechanisms with two degrees of freedom on the accuracy of a computing device. He describes methods of establishing the origin of coordinate systems for driving links of such mechanisms and gives mathematical expressions for the errors of the output of a mechanism. There are 3 references, all Soviet.

Balakshin, O.B. On the Problem of Calculating the Range of Linearity and Sensitivity in Pneumatic Gages The author discusses the design and adjustment of pneumatic gages which work on the principle of measuring the clearance between the gaging head and the surface of the measured part. Using a specific example, he demonstrates a graphical method of

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Transactions (Cont.)

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calculating various parameters of a gage. There are 2 references, both Soviet.

Matevosyan, P.A. On a Method of Reducing the Error in Movement of the Driven Link of a Universal Joint Drive retation of the

the briven mank of a only ersel count and a control of the The author discusses causes of asynchronous rotation of the driving and driven shafts in universal joint drives. He describes methods for reducing error in transmitting the rotation from the driving to the driven shaft due to errors in manufacture of the drive parts and due to nonparallelism between the driving and driven shafts. There are 5 references, all Soviet.

Fil'kin, V.P. Analyzing the Forming Process of Parts by Centerless 36

Grinding The author presents an analytical investigation of the process of forming parts by centerless grinding. He derives formulas for calculating errors in the part shape and formulas for calculating the parameters of the grinder setup. There are 7 references: 4 Soviet, 2 German, and 1 English.

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Transactions (Cont.)	sov/2565	
Sergeyev, V.I. Effect of Self-Oscillations on the Bridge-type Computing Devices The author presents a method for calculating to self-oscillations taking place in a computing automatic drive with nonlinear elements, such bridge-circuit with an automatic drive for mul- scalar values.	the amplitude of device having an as a repistance	58
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SOV/179-59-1-28/36

Coefficients, 1 slowly varying external action. The ortho-vibration may occur when the characteristic equation (Eq.(3)) corresponding to Eqs.(1) and (2) does not satisfy a condition of stability to Eqs.(1) and (2) does not satisfy a condition of stability (a - amplitude of ortho-vibration, I" and I' - correspond-

SOV/179-59-1-28/36

On a method of Approximate Determination of the Effect of an External Varying Slow Action on Ortho-Vibrating Systems

ing non-periodic and periodic components of the current I). The terms of Eq.(5) can be expressed as Eqs.(4) and (5) when b - I" $\langle a \langle b + I" \rangle$. The graph of the function $\alpha(t)$ can be represented as in Fig.2. It shows that an increment of time $\Delta t_{g} (s = 1, ...n)$ is limited by the period of ortho-vibration, i.e. $\Delta t_{g} \geq 2\pi/\omega_{g}$, where ω_{g} - frequency of ortho-vibration. Therefore, the function $\alpha(t)$ can be expressed as Eq.(6). Therefore, the function $p\alpha(t)$ (Fig.2) can be calculated from Eqs.(7-10), based on Eqs.(1, 2, and 6). It can be shown that $p\beta_{g}^{"} = p\alpha_{g}$ (Eq.(11)) and that $\Delta \beta_{g}^{"} = A_{g} - A_{g}^{*} = const$ (Eq.(12)), i.e. an error of the brush displacement of the potentiometer β is constant during an instant of time s. Therefore, the curve $\alpha(t)$ can be expressed as a straight line for that instant. Thus Δt_{g} defines a character of variations $\alpha(t)$: e.g., smooth variations of $\alpha(t)$

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On a Method of Approximate Determination of the Effect of an External Varying Slow Action on Ortho-Vibrating Systems

corresponding to greater values of Δt_s and vice versa, or an accuracy of determination of the ortho-vibration increases with a decrease of Δt_s (on condition that $\Delta t_s = 2\pi/\omega_s$). The value of $\beta_s^{"}$ can be found from Eqs.(11) and (8) and finally expressed as Eq.(13), from which a component of error of $\Delta \beta_s^{"}$ can be found in Eq.(14). The value of a_s is found from Eq.(15) which is derived from Eqs.(1) and (2) after the following alterations are made: $F_2(I)$ substituted by $q(a, I^{"})I^{"}$ in Eq.(1) and $\alpha = 0$ in Eq.(2). Thus the expression Eq.(16) is obtained. When the expression: $\frac{b - I_s^{"}}{c} = const$ (17)

$$\frac{a_s}{a_s} = const$$

as
$$F_1(I) = q''(a_s, I_s'') \text{ are included in Eqs.(10)}$$

(Ref.) and F₁(1) = q (as, 's) are intermediated from Eq.(4))
and (11), then Eq.(18) is found, from which (and from Eq.(4))
the value of as can be determined in the form of Eq.(19).
Card 3/4 The case of a random effect of the external action can be

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SERGEYEV, V.I. (Moskva)

Calculation of the parameters of relay auto-oscillation systems. Izv. AN SSSR. Utd. tekh. nauk. Energ. i avtom. no.5:189-193 S-0 (MIRA 13:1) '59. (Automatic control)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548110016-4"

CIA-RDP86-00513R001548110016-4

SERGEYEV, V.I.

Calculating exact characteristics of shafts designed as supports for mechanisms and mounted on two antifriction bearings. Trudy Inst. mash. Sem. po toch, v mash. i prib. no.12:3-12 '59.

(MIRA 12:6)

(Mechanical engineering)

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PHASE I BOOK EXPLOITATION SOV/4137

Akademiya nauk SSSR. Institut mashinovedeniya. Seminar po tochnosti v mashinostroyenii i priborostroyenii

Trudy, vyp. 14 (Transactions of the Institute of Machine Science, Academy of Sciences USSR. Seminar on Accuracy in Machinery and Instrument Manufacture, no. 14) Moscow, 1960. 84 p. Errata slip inserted. 2,200 copies printed.

Editorial Board: N.G. Bruyevich (Resp. Ed.), Academician; G.G. Baranov, Doctor of Technical Sciences; M.L. Bykhovskiy, Doctor of Technical Sciences; A.P. Viadziyevskiy, Doctor of Technical Sciences; B.G. Dostupov, Doctor of Technical Sciences; M.I. Kochenov, Candidate of Technical Sciences; Yu. V. Lyubatov, Candidate of Technical Sciences; D.N. Reshetov, Doctor of Technical Sciences; V.I. Sergeyev, Candidate of Technical Sciences; and A.S. Shatalov, Doctor of Technical Sciences; Ed. of Publishing House: P.F. Zolotov; Tech. Ed.: S.G. Markovich.

PURPOSE: This collection of articles is intended for scientific workers and design engineers.

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SERGEYEV, V.I.

Effect of inertia load, nonlubricated friction, and backlash on the operation of bridge-type computing and measuring devices. Trudy Inst.mash.Sem.po toch.v mash.i prib. no.14:20-34 '60. (MIRA 13:7)

(Bridge circuits) (Calculating machines) (Electric instruments)

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LIKHACHEVA, Ye.A.; SERGEYEV, V.I.

Investigating the precision of machining bearing rings on automatic production lines. Trudy Inst.mash.Sem.po toch.v mash.i prib. no.14: 76-85 '60. (MIRA 13:7) (Bearings (Machinery)) (Grinding and polishing)

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SERGEYEV, V.I.

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Analyzing natural vibrations in the presence of backlash and nonlubricated friction in the circuit of the automatic drive of bridge computers. Probl.proch.v mashinostr. no.6:55-67 '60. (MIRA 13:9)

(Calculating machines--Vibration)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548110016-4

S/194/61/000/001/005/038

D216/D304

9,7000

AUTHOR: Sergeyev, V.I.

TITLE: The influence of a load with inertia and of the dead zone on the performance of bridge type computers

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 1, 1961, 8, abstract 1 B51 (Tr. in-ta mashinoved AN SSSR, Seminar po tochnosti v mashinostr. i priborostroyenii, no. 14, 1960, 20-34)

TEXT: The general arrangement is considered of the multiplying bridge circuit of a computer with automatic drive from a 2-phase asynchronous motor. The equation for the motion of the slider of the output potentiometer is derived which permits analysis of the influence of dry friction, of the load inertia and of the circuit overloading. Numerical examples for the use of derived expressions are given. The special features of a measuring bridge circuit and of the summing bridge circuit are discussed. 8 figures. 5 references Card 1/1

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S/194/61/000/001/006/038

 D_{216}/D_{304}

9,7000

AUTHOR: Sergeyev, V.I.

TITLE: Estimation of self-oscillations in the automatically driven computers in the presence of dead zone and dry friction

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 1, 1961, 8, abstract 1 B54 (V sb. Probl. prochnosti v mashinostr. no. 6, M., AN SSSR, 1960, 55-67)

TEXT: It is pointed out that it is possible to increase the accuracy of automatically driven bridge computers in a self-oscillatory state if the amplitude of oscillations is limited to a value less than the error of the operation itself due to the non-linearities in the circuit - the gap and dry friction. An analysis of the circuit is given utilizing the method of equivalent linearization and which secures determination of theoretically probable characteristics both of free motion of non-linear dynamic systems and of the

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Estimation of self-oscillations...

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motion due to the effect of a stationary random function. An example of the method of evaluating self-oscillations of a system is shown. 7 figures. 5 references

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Transactions of the USSR (Cont.)

SOV/5617

- PURPOSE : This collection of articles is intended for engineers, designers, and research workers interested in the improvement of accuracy in machine and instrument manufacturing.
- COVERAGE: The dynamic properties of centrifugal drum- and conetype governors for electric motors are discussed. Problems are reviewed concerning accuracy in automatic dimensional control, computer adjustment, parts machining, and the distribution of dimensional errors along turbine blades. The practicability of automating computer adjustments and certain problems in constructing electronic-computer adjusting elements are considered. Conclusions concerning the results of the investigations are presented in some of the articles. No personalities are mentioned. References accompany each article. There are 42 references: 41 Soviet and 1 English.

TABLE OF CONTENTS:

Sergeyev, V. I. The Dynamics of a Centrifugal Drum-Type Governor [Reported Feb. 24, 1958] Card 2/4

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s/194/62/000/007/042/160 D295/D308

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Sergeyev, V.I. AUTHOR:

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Dynamics of conical centrifugal regulator TITLE:

Referativnyy zhurnal. Avtomatika_i radioelektronika, PERIODICAL: no. 7, 1962, abstract 7-2-86 v (Tr. In-ta mashinoved. AN SSSR, Seminar po tochnosti v mashinostr. i priborostr., no. 15, 1961, 89 - 94)

TEXT: The dynamics of a conical centrifugal regulator of the speed of rotation of an electric motor is investigated, taking account of the force of solid friction in the regulator, F_{f} , and of the time

constant of the armature circuit of the meter, T. Accuracy performance indices of this system are compared with a speed-regulation system using a plane centrifugal regulator and a friction mechanism. On the basis of the investigation the following results have been obtained. 1. The parameters F_f and T affect markedly the period of

the self-oscillations of the system investigated with a conical centrifugal regulator (an increase of these parameters by 3 times Card 1/2

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Dynamics of conical centrifugal ... D295/D308

Leads to an increase of the self-oscillation period by approximately 2 times). 2. The period and amplitude of the self-oscillations of. a system with a conical regulator are larger by one order of magnitude than the corresponding quantities in a system with a plane centrifugal regulator. 3. The static accuracy (with respect to the steady-state speed of rotation) in a system with a conical regulator is one half of that in a system with a plane regulator. In this connection it is recommended to use, for constant-speed-operation systems, an equipment with a plane regulator and a friction mechanism ensuring a higher static accuracy and improved dynamic performance. 3 figures, 5 references. [Abstracter's note: Complete translation.]

card 2/2

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SERGEYEV, V.I.

> Approximate calculation of the theoretical and probability characteristics of natural vibrations. Trudy Inst.mash.Sem. po toch.v mash.i prib. no.16:14-28 '61. (MIRA 15:2) (Vibration)

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SERGEYEY, V.I.

以为约4月74

Substantiation of methods for selecting the number of control points in manufacturing elements of kinematic pairs having interdependent errors. Trudy Inst.mash.Sem.po toch.v mash.i prib. no.16:40-43 ¹61. (Production control)

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PHASE I BOOK EXPLOITATION	SOV/6531
Sergeyev, Vladimir Ivanovich	
Osnovy instrumental'noy tochnosti elektromekhaniche v prilozhenii k priboram upravleniya i kontrolya Instrumental Precision in Electromechanical Circu to Control Devices). Moscow, Izd-vo AN SSSR, 196 printed on the inside of back cover. 3700 copies	(Principles of uits, as Applied 63. 214 p. Errata
Sponsoring Agency: Akademiya nauk SSSR. Gosudarst Soveta Ministrov SSSR po avtomatizatsii i mashino stitut mashinovedeniya.	tvennyy komitet ostroyeniyu. In-
Resp. Ed.: N. G. Bruyevich, Academician; Reviewer; Doctor of Technical Sciences, Professor and Yu. V didate of Technical Sciences, Docent; Ed. of Publ V. A. Kotov; Tech. Ed.: A. P. Guseva.	V. Lyubatov, Can-
PURPOSE: This monograph is intended for scientists the problems of instrument precision in electrome of automatic-control and regulation systems, and	echanical circuits
Card 1/7	

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The concluding paragraphs of the monograph deal with the stiation of general propositions for the computation of the strument precision of complex automatic-control and adjust devices viewed as a whole. The initial material on which book is based consisted of measurements of over 100,000 er both in the case of individual errors in simpler systems, the systems viewed as a whole. No personalities are menti There are 97 references, all Soviet. TABLE OF CONTENTS: Introduction SECTION I. THEORETICAL PROBABILITY CHARACTERISTICS OF THE OUTPUT ERRORS IN NONDYNAMIC SYSTEMS Ch. I. Theoretical Probability Characteristics of the	
Introduction SECTION I. THEORETICAL PROBABILITY CHARACTERISTICS OF THE OUTPUT ERRORS IN NONDYNAMIC SYSTEMS	the rors, and in
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	iples of Instrumental Precision (Cont.)	SOV/6531
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8.	General form of the expressions for a correla- tion function and mathematical expectation of	49
9.	Investigation of the accuracy of the mechanisms described by differential equations. Peculiari- ties of the displacement error correlation func-	54
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84614	lography	21
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SUBJI	ECT: Mechanical and Electrical Engineering	
Card	7/7	

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SERGEYEV, V.I.

Investigating steady errors in hunting systems. Trudy Inst. mash. Sem. po toch. v mash. i prib. no.17:98-104 '63. (MIRA 16:9)

(Bridge circuits-Testing)

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A CARACTER AND A

BRUYEVICH, N.G.; SERGEYEV, V.I. (Moscow)

1995年4月18日19日

"On the problem of accuracy in the reliability theory"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

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"APPROVED FOR RELEASE: 08/23/2000

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s/0179/64/000/002/0078/0081 ACCESSION NR: APLO35061 AUTHOR: Bryvevich, N.G. (Moscow); Sergeyev, V. I. (Moscow) Problem of precision in reliability theory SOURCE: AN SSSR. Izvestiya. Mekhanika i mashinostroyeniye, no. 2, 1964, TOPIC TAGS: precision, reliability, machine, reliability theory, machine ABSTRACT: The reliability of a machine is defined as its ability to operate reliability and perform its intended purposes for a given number of hours. Lack of. reliability in a machine of device can occur as a result of one or several rough primary errors due to breakdown in parts or from the concurrent effect of several slight primary errors. Depending on the purpose of the machine, the error in the output coordinant can be expressed as an error of position or displacement or an error in velocity or acceleration. It is very important in solving the second problem in the theory of reliability (i.e. that the output signals lie within given tolerances) to study the precision with - 1/2 Card

APPROVED FOR RELEASE: 08/23/2000

SERGEYEV, V.I.

Some general problems in rated substantiation of the precision of nonlinear automatic systems. [Trudy] Inst. mash., STMP no.18:3-13 '64.

Evaluating the precision of nonlinear systems. Ibid.:14-16 (MIRA 18:4)

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SERGEYEV, V.I.

Business accounting in drilling brigedes; in order of discussion. Razved. i okh. nedr 30 no.2:58-59 F *64. (MIRA 17:8)

1. Tetyukhinskaya ekspeditsiya.

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BEKTURSUNOV, Sh.Sh.; SERGETEV, V.I.

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Automation of metal pouring. Lzv. vys. ucheb. zev.; chern. met. 8 no.9:57-63 465. (MIRA 16 (MIRA 18:9)

1. Zavod-wtuz pri Karagandinskov netallungisheskom institute.

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	ACC NR: AP5025209 ETC(m) EM/JD/MA SOURCE CODE: UR/0030/65/000/009/0052/0056	ĺ
A	UTHORS: Kobrinskiy, A. Ye.; Koliskor, A. Sh.; Levkovskiy, Ye. I.; Popov, V. Ye.; 48 Sergeyev, V. I.	
+-	BRG: Institute of Machine Science, State Committee on Machine Construction under	
G	osplan SSSR and the Academy of Sciences, SSSR (Institut mashinovedeniya, osudarstvennogo komiteta po mashinostroyeniyu pri Gosplane SSSR i Akademii nauk SSSR)	
Т	TITLE: A self-adjusting system of programmed machine control	
ន	OURCE: AN SSSR. Vestnik, no. 9, 1965, 52-56	
	COPIC TAGS: self adaptive control, precision finishing, measuring instrument, control equipment, control system	
P	BSTRACT: Causes of production errors and means of avoiding them in the case of programmed metal parts manufacture are discussed. It is pointed out that many factors	
Ъ	aving a significant effect on the accuracy and productivity of work processes cannot be entirely accounted for in preliminary process programming and hence must be accounted for in a self-adjusting control system. Examples of the hard-to-control	,
	actors are geometric machining errors, heat and elastic deformation of machine units, and others. The principal feature of the self-adjustment mechanism is an "ability" to	
	bsorb information on the results of previous work and to make appropriate adjustments - n the process control program for succeeding articles. An example is given of a	
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L 9405-56 20 ACC NR: AP5025209 £ self-adjusting program-controlled cutting device used in the production of blades for turbojet compressors. A sketch of the cutting configuration is shown in Fig. 1. Fig. 1. The milled piece 1 moves relative to the cutter 2 as directed by a program controlling motion of the cutter along the axes X and Y. The machined article passes from the milling tool shown to a measuring device which evaluates machining errors. From the measurements obtained, signals are generated. These cause adjustments to be made in the program controlling the next stage in the machining process for this article. A description and photographs of the major equipment used in the process are given. Experimental tests of the self-adjustment method resulted in marked reductions in machining errors in the case of the compressor blade cutting. Orig. art. has: 5 figures 09 13/ SUBM DATE: none SUB CODE: Card 2/2

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CIA-RDP86-00513R001548110016-4

SERGEYEV, V.I.

Investigating natural-vibration systems in the presence of slowly varying random influences. Trudy Inst. mash., STMP no. 19:3-8 (MIRA 19:1)

Determining theoretical probability characteristics of natural vibrations. Tbid.:9-12.

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AGAPOV, Stepan Petvovich, kandidat sel'skokhozyaystvennykh nauk: SERGEYEV. V.I., redaktor; VESKOVA, Ye.I., tekhnicheskiy redaktor; PEHESYPKINA, Z.D., tekhnicheskiy redaktor [Root crops for table use] Stolovye korneplody. Izd. 2-ce, dop. i ispr. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 300 p. (MLRA 9:11) (Root crops)



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KAS' YANENKO, Aleksey Jovich, kadidat sel'skokhosyaystvennykh nauk; SERGYTY, J., redaktor; SOKOLOVA, N.N., tekhnicheskiy redaktor
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MORDKOVICH, Moisey Solomonovich; ELIMOV, Leonid Fedorovich; SERNETN, V.I., redaktor; PAVLOVA, N.N., tekhnicheskiy redaktor. [Processing fruits, berries and vegetables at home] Pererabotka plodov, iagod i ovoshchei v domashnikh usloviiakh. Moskva, Gos. isd-vo sel'khos. lit-ry. 1956. 135 p. (MIRA 9:5) (Fruit--Preservation)(Vegetables--Preservation)(Cookery)

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YAKUSHKIN, I.V., akademik, red.; CHMOR, N.Ya., kand. sel'skokhozyaystvennykh nauk, red.; SERGEYEV, V.I., red.; ZUBRILINA, Z.P., tekhn. red.

> [Potatoes] Kartofel'. Izd.5. Moskva, Gos. izd-vo sel'koz. lit-ry, 1956. 278 p. (Trekhletnie kolkhoznye agrozootekhnicheskie kursy. 2.g. obuchemiia) [Bibliotechka po ovoshchevodstvu, 7].(MIRA 11:9) (Potatoes)

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