

FIL'KIN, N.G., inzh.

Repairing rotors of suction dredges. Transp. stroi. 15 no.5:55 My '65.
(MIRA 18:7)

1. Test Transgidromekhanizatsiya.

S/035/62/000/006/053/064
A001/A101

AUTHOR:

~~Fil'kin, V. A.~~

TITLE:

Recent tectonic movements and geomorphological peculiarities of the Chelyabinsk-Kurgan repeated leveling traverse

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya, no. 6, 1962, 27, abstract 6G175 (Collection "Sovrem. tekton. dvizheniya zem. kory i metody ikh izuch.", Moscow, AN SSSR, 1961, 114 - 118)

TEXT:

The results of the repeated leveling along the Chelyabinsk-Kurgan 270-km long line (the first leveling was performed in 1941 - 1942 and the repeated one in 1953 - 1954) are compared with geomorphological materials collected as a result of studying the valleys of rivers Miass, Iset', Tobol, Yurgamysh and largest depressions of lakes.

V. S.

[Abstracter's note: Complete translation]

Card 1/1

FIL'KIN, V.A.

Practice in using the cartographic method for the study of the tectonic foundation of the drainage system using the Donets Basin as an example. Izv. AN SSSR. Ser. geog. no.2:127-134
Mr-Ap '65. (MIRA 18:4)

1. Institut geografii AN SSSR.

FIL'KIN, Vasilii Ivanovich

[Chechen-Ingush party organization during the years of the
Great Patriotic War of the Soviet Union] Checheno-Ingushskaya
partinaya organizatsiya v gody Vel'koi Otechestvennoi voiny
Sovetskogo Soyuza. Grozny, Checheno-Ingushskoe knizhnoe izd-vo,
1960. 145 p. (MIRA 14:4)
(Chechen-Ingush A.S.S.R.--World War, 1939-1945--Economic aspects)

ZINGER, Ye.M.; FIL'KIN, V.A.

Lake Baskunchak needs protection. Priroda 53 no.2:88-93
'64. (MIRA 17:2)

1. Institut geografii AN SSSR, Moskva.

MESHCHERYAKOV, Yu.A.; FIL'KIN, V.A.

Evaluation of geomorphological indicators given in points of a scale as a method of the quantitative characteristics of recent tectonic movements. Izv. AN SSSR Ser. geog. no.1:98-106 Ja-F '65. (MIRA 18:2)

1. Institut geografii AN SSSR.

FIL'KIN, V. P

25(2); 16(0)

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. Vladzhiyevskiy, 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

tion of errors in gear trains, design of a wire-rope drive, interpretation of functions with many variables by using adding, multiplying, and simplest functional units, form inspection of circular parts, and design of gyroscopic verticals for accuracy. No personalities are mentioned. References follow several of the articles.

TABLE OF CONTENTS:

Lyubator, Yu.V. Application of the Principle of Virtual Displacements in the Determination of Scalar Errors in Positions of Mechanisms	3
The effect of linear and angular errors on the ratio of a mechanism is investigated by using the principle of virtual displacements. The mechanism is assumed to be in equilibrium under a certain imaginary loading. The use of the method is illustrated by several examples. The method can also be applied to planar and space mechanisms with lower and higher pairs.	
Partenskiy, B.M. On the Problem of Accumulating Errors of Tooth Gears in Gear Trains	18

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The article explains the possible ways in which the accumulation of errors of single gears in a gear train can occur. Simple formulas which can be used as criteria are presented.

Sergeyev, V.I. Design of a Wire Rope Transmission for Accuracy 26
Specific features of design for accuracy are discussed, and formulas for calculating errors for a single transmission and for a number of transmissions of the same design are presented. The effect of thermal expansion is also discussed.

Pinsker, I.Sh. Presentation of Functions of Many Variables by Using Adding Multiplying, and the Simplest Functional Devices 35
The author presents a number of methods for expanding a given function into different combinations of functions with one or one and two variables. The methods are applicable to cases in which the given functions have two and three variables. Adders, multipliers, and simple functional devices are used.

Fil'kin, V.P. Problem of Inspection for Roundness of Parts of Circular Cross Section 52

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Transactions (Cont.)

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This article discusses checking geometrical errors in round parts by the two- and three-point method with different angles of contact.

Sergeyev, V.I. Some Problems in Designing Gyroscopic Verticals for Accuracy 64
The effect of moments to which a gyroscopic vertical is subject and which affect its characteristics are discussed. Formulas derived permit the calculation of mathematical expectations and the range of angles of precession for gyroscopic verticals with linear correction, as well as free ones.

AVAILABLE: Library of Congress

Card 4/4

GO/jb
12-19-59

FIL'KIN, V. P.

123-1-736

Translation from: Referativnyy Zhurnal, Mashinostroyeniye, 1957,
Nr 1, p.110 (USSR)

AUTHORS: Baranov, G. G., Rubin, S. B., Fil'kin, V. P.

TITLE: On the Theory of Through Centerless Grinding
(K teorii skvoznogo bestsentrovogo shlifovaniya)

PERIODICAL: Sbornik: 'Tochnost' izgotovleniya sharikovykh i rolikovykh
podshipnikov na avtomat. liniyakh. Moscow, AN SSSR, 1955,
pp. 19-59

ABSTRACT: The authors analyse the shape of the regulating wheel
providing maximum accuracy of the machined pieces, and
the slippage of single points of the workpiece in relation
to the regulating wheel during the through grinding.
Because the work resting between the wheels is cone-shaped,
the regulating wheel must have the shape of an enveloping
surface of the cone family and not of a body (as previously
assumed) of a tangent cylinder, which axis crosses the
axis of this rotating body. In order to obtain maximum
similarity of shape of the regulating wheel in relation
to the profile desired in the work, the diamond point

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On the Theory of Through Centerless Grinding (Cont.)

123-1-736

attachment is turned in the vertical plane an additional angular amount (a turning device to shape the wheel to a hyperboloid-in-rotation profile is used on the subject machines). The magnitude of this angle is computed. The variability of the diameter of the regulating wheel (in terms of its length) creates variable speeds of the longitudinal travel of the work, which increase as the work travels thru the machine. This fact produces a play between the ground rings fed simultaneously between the wheels. This disruption increases with the angle at which the regulating wheel is set. In order to obtain a compact stock of workpieces, supports of ground rings are built up on one or both ends. Forces acting on the ground rings are examined, and the required resistance of the support is calculated. This force depends upon the condition of the face of the regulating and grinding wheel. A dull grinding wheel increases and a dull regulating wheel decreases the forces acting on the ring support.

Card 2/2

FIL'KIN, V.P.

Checking the shape of circular workpieces. Trudy Inst.mash.Sem.po
toch.v mash.i prib. no.8:52-63 '55. (MLRA 10:9)
(Machine-shop practice)

Fil'kin, V.P.

FIL'KIN, V.P.

Calculating the moment of friction for disk friction couplings
considering the slipping. Trudy Inst. mash. Sem. po toch. v mash.
1 prib. no.11:41-61 '57. (MIRA 10:12)
(Couplings) (Friction)

FILKIN, V F

28(2)

b.4

PHASE I BOOK EXPLOITATION

SOV/1394

Akademiya nauk SSSR. Institut mashinovedeniya

Voprosy sinteza i tochnosti slozhnykh ustroystv nepreryvnogo deystviya (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: Ioffe, 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 synthesis and accuracy 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

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Synthesis and Accuracy (Cont.)

SOV/1394

contains seven articles dealing with the accuracy of some particularly simple mechanisms: cams, 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.Pchel'nikov, and A.A. Feldbaum, Professors and Doctors of Technical Sciences; B.G. Dostupcv, Docent, Doctor of Technical Sciences; T.A. Golinkevich, A.I. Ivantsov, Yu.V. Lkhbatov, 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. Ivannikov for working on the second part of the book. There are 87 references, all Soviet.

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PART I. PROBLEMS OF SYNTHESIS AND ACCURACY
OF COMPLEX MECHANISMS FOR CONTINUOUS OPERATION

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5-11-59

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FIL'KIN, U.P.

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PHASE I BOOK EXPLOITATION SOV/2565

Akademiya nauk SSSR. Institut mashinovedeniya. Seminar po tochnosti v mashinostroyeni i priborostroyeni

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 slip 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 Technical Sciences; A.P. Vladziyevskiy, Doctor of Technical Sciences; and A.S. Shatalov, Doctor of Technical Sciences.

PURPOSE: This book is intended for engineers concerned with accuracy in machines and instruments.

COVERAGE: This is a collection of scientific papers dealing with the

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Transactions (Cont.)

SOV/2565

accuracy and adjustment of various devices. The subjects discussed 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 pneumatic 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 on the accuracy of computing devices such as resistance bridge-circuits with automatic drive for multiplying two scalar quantities.

TABLE OF CONTENTS:

Sergeyev, V.I. On Calculating the Accuracy of Bearing Subassemblies in Mechanisms Constructed in the Form of Shafts Mounted on Two Rolling-Contact Radial Bearings 3
The author investigates errors resulting from the total axial displacement of rotating shafts of mechanisms used in precision

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Transactions (Cont.)

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

Lyubotov, Yu.V. On Calculating the Accuracy of Computing Mechanisms With Two Degrees of Freedom 13

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 24

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 29

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.

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

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 Accuracy of
Bridge-type Computing Devices

58

The author presents a method for calculating the amplitude of self-oscillations taking place in a computing device having an automatic drive with nonlinear elements, such as a resistance bridge-circuit with an automatic drive for multiplying two scalar values.

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GO/jb
11-30-59

BARANOV, G.G. (Moskva); KOCHENOV, M.I. (Moskva); FIL'KIN, V.P. (Moskva)

Investigation of the precision of an automatically controlled grinding process. Izv. AN SSSR. Otd. tekhn. nauk Energ. i avtom. no.6:162-171 N-D '59. (MIRA 13:8)
(Grinding and polishing) (Automatic control)

FIL'KIN, V.P.

Analyzing the shaping of parts subjected to centerless grinding.
Trud' Inst. mash. Sem. po tech. v mash. i prib. no.12:36-57 '59.
(MIRA 12:6)

(Grinding and polishing)

S/024/59/000/06/020/028
E081/E241

AUTHORS: Baranov, G. G., Kochenov, M. I., and Fil'kin, V. P.
(MOSCOW)

TITLE: Investigation of the Accuracy¹⁴ of the Automatic Grinding¹⁴
Process

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye
tekhnicheskikh nauk, Energetika i avtomatika, 1959,
Nr 6, pp 162-171 (USSR)

ABSTRACT: Presented at the III All-Union Joint Conference on
Automation of Production Processes in Engineering and the
Automation of Electric Drive in Industry.

A historical review is given of work on automatic grinding in the Soviet Union. An experimental investigation is then described into the automatic centreless grinding of the external ring of a bearing of diameter 135 mm using the machine O1S22. Eq (1) is a relation established between the deviations in the sizes before and after grinding; Δd_k is the limiting deviation of the ring after grinding from the mean of the group, Δd is the limiting deviation before grinding, and the mean value of the product kc was established experimentally as 2. With $\Delta d = \pm 30$ microns, Eq (1) gives $\Delta d_k = \pm 10$ microns.

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E081/E241

Investigation of the Accuracy of the Automatic Grinding Process

In the experiments eleven groups of 500 rings were produced and in each group 40 rings at the beginning and 40 groups at the end were rejected. Each group consisted initially either of rings of a single diameter ($\pm 5\mu$) or of rings of two slightly different diameters (each $\pm 5\mu$). After grinding, the maximum and minimum diameters of each ring were measured. For all groups the distribution of the deviations Δd_0 (maximum and minimum combined) and Δd_ϕ (difference between maximum and minimum) were found. If Δd_0 is the deviation of the mean diameter, Δd_0 includes Δd_c and the "form" error Δd_ϕ . The results are summarised in the Table (p 166); σ is the mean square deviation of the quantity defined by the suffix, δ the range of scatter (see Fig 2), and Δ_k the systematic change of size of the rings during the time of working of each group. Fig 1 shows part of the results for maximum and minimum diameter of the processed rings of Group III, and Fig 2 shows the distribution curves (a) of size and (b) of errors of shape. Curve 1 is empirical, curve 2(a) is a Gaussian distribution and curve 2(b) a

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Investigation of the Accuracy of the Automatic Grinding Process

Maxwell distribution. Fig 4 shows the dependence of Δ_k , σ_0 , σ_c and σ_\varnothing on the number of rings in the step.

[This figure refers to groups I, II and III in which the initial diameter of the rings had two values differing by 50μ . In group I the large diameters ($d = 135.100$ mm) and small diameters ($d = 135.050$) alternated in ones. In group II the large and small rings were distributed in lots of 7 rings, and in group III the lots contained 21 rings.] Fig 5 shows the dependence of Δ_k , σ_0 , σ_c and σ_\varnothing on the step height. Δ_k is about 9 to 10 μ for step heights 25, 50, 75 μ , and for $h = 0$ it is 23 μ . This cannot be explained in terms of the increase in the mean surplus (pripusk) Π_{p_c} from 88 to 100 μ (groups V and IV, table p 166). Fig 6 shows that the size of the removed surplus has only a small effect on σ_0 and σ_c , but appreciably influences the value of σ_\varnothing . The change in Δ_k in Fig 6 also suggests that the size of the removed surplus also influences the wear and blunting of the grinding circle. Fig 6 refers to stepped lots of rings; Fig 7 is similar, but refers to rings of uniform size. Card 3/4 The rings in Group XI were selected at random from the

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Investigation of the Accuracy of the Automatic Grinding Process

other groups and had diameters of $135.100 \text{ mm} \pm 0.03$. Fig 3 shows the measured mean diameter after preliminary grinding (top) and after final grinding. The calculated parameters for this group are in the last line of the table and are in all instances smaller than the grand mean values in the line above. On the basis of the results, a provisional discussion is given of the possibility of applying automation to the grinding process, for example by basing the control on the change in diameter between alternate rings, or on the arithmetic mean of a group of rings. Other possibilities include the use of two machines working successively, or the automatic sorting of rings into different size groups. There are 8 figures and 1 table. ✓

SUBMITTED: April 7, 1959

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PHASE I BOOK EXPLOITATION SOV/5291

Soveshchaniya po kompleksnoy mekhanizatsii i avtomatizatsii tekhnologicheskikh protsessov v mashinostroyenii. 2d, Moscow, 1956

Avtomatizatsiya mashinostroyitel'nykh protsessov. t. III: Obrabotka rezaniyem i obshchiye voprosy avtomatizatsii (Automation of Machine-Building Processes. V. 3: Metal Cutting and General Automation Problems) Moscow, Izd-vo AN SSSR, 1960. 296 P. (Series: Its: Trudy, t. 3) 4,700 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya. Komisiiya po tekhnologii mashinostroyeniya.

Rasp. Ed.: V. I. Dikushin, Academician; Ed. of Publishing House: V. A. Anov; Rech. Ed.: S. S. ...

PURPOSE: This collection of articles is intended for technical personnel concerned with the automation of the machine industry.

COVERAGE: This is Volume III of the transactions of the Second Conference on the Full Mechanization and Automation of Manufacturing Processes in the Machine Industry, held September 25-29, 1956. The transactions have been published in three volumes. Volume I deals with the hot pressworking of metals, and volume II, with the actuation and control of machines. The present volume deals with the automation of metal machining and work-hardening, and with general problems encountered in automation. The transactions on the automation of metal-machining processes were published under the supervision of P. S. Dem'yanok and A. M. Karatygin, and those on the automation of work-hardening processes, under the supervision of E. A. Satal' and N. O. Yakobson. No personalities are mentioned. There are no references.

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ACC NR: AT6011146 SOURCE CODE: UR/3197/65/000/002/0199/0208

AUTHOR: Fil'kin, V. A.

ORG: Institute of Geography, AN SSSR (Institut geografii AN SSSR)

15
BT1

TITLE: Relationship of contemporary exogenic processes and movements of the earth's crust at the Baskunchak polygon [test area]

SOURCE: AN EstSSR. Institut fiziki i astronomii. Sovremennyye dvizheniya zemnoy kory. Recent crustal movements, no. 2, 1965, 199-208

TOPIC TAGS: epeirogeny, crustal deformation, repeated leveling, geophysical polygon, geomorphology / Caspian Sea

ABSTRACT: Results are presented for a series of studies of crustal deformation carried out at two geophysical polygons (test area) located in the salt-dome structures of the Caspian Sea area. The basic data consisted principally of repeated high-precision levelings dating from 1951 when the two test areas (Baskunchak and Saykhin) were established. The second leveling was run in 1958, and these lines were repeated in 1961 and 1963 (Baskunchak polygon). Geomorphological and geological studies carried out in the later periods were combined with the leveling

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ACC NR: AT6011146

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data to identify the types, locations and rates of movement of the principal local tectonic zones. Orig. art. has: 2 figures. [ER]

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 003

Card 2/2 mjs

BORODICH, V.D.; GOLUB', A.P.; KOMBAROV, A.K.; KREMELEV, M.G.; MOROZ, N.K.;
SAMOYLOV, B.N.; FIL'KIN, V.Ya.

Critical currents of Nb-Zr alloys in an external magnetic
field. Zhur. eksp. i teor. fiz. 44 no.1:110-115 Ja '63.

(MIRA 16:5)

(Niobium-Zirconium alloys—Electric properties)
(Magnetic fields)

Reel # 131
Filing, B.I.