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· J. WARRAGH BURGER, ··

Maslov, E. 1	ιί Ι.	
USSR/Engines	ring	- Grinding wheels
Card	1	1/1
Authors	•	Maslov, E. H., Dr. Tech. Sc., Prof.; Ignatov, B. A., Engineer
- Atle	•	Dependence of the Durability of the Wheel on the Grinding System
Periodical	1.	Vest. Mash. 34, Ed. 6, 50 - 54, June 1954
Abstract		An analysis is made of the results obtained from experiments with grind- ing wheels, which showed that the durability of such wheels depend on whether the feed is lengitudinal or transverse, on the speed of the wheel and its diameter, and to a lesser extent on the diameter of the part be- ing machined and the hardness and grain of the wheel. These factors are taken up separately and interpreted. Tables; graphs.
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MASLOV, YE N p.2

CLASE I O EXPLOTATION SOV/3918

Akademiya nauk SSER. Institut masbinovedeniya. Komissiya po tekhnologii mashinostroyeniya

Osnovnyye voprosy vysokoproizvoditel'nogo shlifovaniya (Basic Problems in High-Productivity Grinding) Moscov, Mashgiz, 1960. 195 p. 3,000 copies printed.

Ed. (title page): Ye. N. Maslov, Doctor of Technical Sciences, Professor;
Ed. (Luside book): A. T. Popov, Engineer; Tech. Ed.: V. D. El'kind;
Managing Ed. for Literature on Metalworking and Instrument Construction (Mashgiz): V. V. Rzhavinskiy, Engineer.

FURPOSE: This book is intended for technical personnel in metal grinding.

COVERACE: This collection of articles deals with problems of efficient grinding of metals, the theory of grinding, the mechanism of the cutting action of grains, chip formation, and the effect of certain factors on the productivity of the grinding process. Emphasis is also given to the automation of the grinding process. A number of articles deal with the grinding of carbides and titanium alloys. No personalities are mentioned. References follow each article. Card 1/6

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Basic Problems (Cont.) SOV/3918	
TABLE OF COMPRENS:	
From the Editor	7
Maslov, Ye. N. [Doctor of Technical Sciences, Professor]. Mechanism of the Cutting Action of Abrasive Grains in Grinding The author discusses arrangement, spacing, dimensions, and geometry of abrasive grains. The theory of the process of chip formation and the thickness of the layer removed by a single grain are also discussed.	!
Popov, S. A. [Candidate of Technical Sciences]. Analysis of Types of Chip Formation in Connection With the Geometry of the Grinding-Wheel Surface	3
Nikol'skiy, A. V. [Candidate of Technical Sciences]. Effect of Various Factors on Productivity in Cylindrical Grinding The author describes a method for determining optimum feeding rate, unit pressure between work and wheel, and the cutting depth of single grains necessary for the maximum utilization of grinding wheels.	5
Vakser, D. B. [Docent]. Effect of the Geometry of an Abrasive Grain on the Properties of the Grinding Wheel Card 2/6	7

Basic Problems (Gaza.

我的你们的我们还能够不知道。""你们还能没有这些问题。"

SOV/3918

The author discusses has relationships between the rudii of curvature and the angles of peaks and valleys of abrasive grains. Grain forms were drawn in two projections by means of an RA-4 drawing apparatus built into the system of an ordinary biological microscope. Magnification of the microscope was adjusted to the grit size.

Lur'ye, G. R. [Professor]. The Theory of the Working Cycle in Cylindrical Grinding as a Basis of High-Productivity Machining The article is a study of the grinding operation and its regularities. Among the topics discussed are effect of processing factors on the quality of grinding, changes in cutting action of a grinding wheel over the wheel life and during operation, and the effect of wheel wear on productivity.

Zheleznow, Ye. S. Principles of High-Productivity Grinding and Its Automation

109

87

The article deals with the principles of planning high-productivity grinding and the incorporation of a system of automation into grinding operations. Both subjects are discussed in connection with the reduction of cutting time, the achievement of process stability, and the

Card 3/6

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Basic Problems (Cont.) SOV/3918	
improvement of the quality of the product.	
Kondrat'yev, A. B. [Candidate of Technical Sciences, Docent]. Results of Investigation and Experience of Introducing High-Speed Grinding of Metals The investigation of high-speed grinding with porous grinding wheels is discussed. Advantages, wheel life, and surface roughness of this type of grinding operation are included. The author recommends the accelerated construction of grinders and wheels for speeds of 80-90 m/sec.	121
Kedrov, S. N. [Candidate of Technical Sciences]. Results of an In- vestigation of Centerless Grinding With Wide Grinding Wheels The author discusses the possibilities and advantages of intro- ducing centerless grinding with wide (800-900 mm) wheels into mass production. The results of experimental operations with this type of wheel at the 1GPZ Plant are presented.	131
Sagalow, V. I. [Candidate of Wedmical Sciences]. Characteristic Features of the Process of Grinding Carbides Such characteristic features of the grinding of carbides as the use of silicate-bonded wheels, the formation of powdered waste instead of Card 4/6	<u>144</u>

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810003-3"

SOV/_918 Basic Problems (Cort. chips, and the operations of indensive oxidative are discussed. The relationships between temperature during grinding, pressure between wheel and work, speed, and productivity are outlined. The author suggests increasing productivity through higher speeds and more intensive oxidation. Sil'vestrow, V. D. [Candidate of Technical Sciences] Characteristic 153 Features of the Grinding of Titanium Alloys The author indicates the basic cause of low productivity in the grinding of titanium alloys. He attributes low productivity to the chemical affinity of titanium alloys to the materials of the grinding wheel and the resulting excessive wear of the wheel. To increase productivity [20-25 times], he recommends the use of special grinding coolants. The compositions of the coolants proposed are presented. Bagdasaryan Zh. A. [Candidate of Technical Sciences]. Cutting Action 161 of Grinding Wheels and [Machanical] Work in Grinding The results of experimental work by the author are presented. The work is based on a study of metal and abrasive waste products in grinding. The effect of truing and dressing on wheel wear is determined, and the conflicient E is derived. This coefficient characterizes the reduction of average grain dimensions in waste as **Card** 5/6

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compared with original grain dimensions. work (force × relative displacement of a grinding is also presented.	An analysis of mechanical work and wheel surface) during
Chestnov, A. L. [Candidate of Nechnical Sci Sliding Surfaces The author discusses the regularities of a microfinishing attachment for a lathe, of a journal on the wear of the bushing.	the microfinishing process, and the effect of finishing
Nakhkamov, R. G. Some Problems of Fiexible Felt Wheels The author describes an experimental inv grinding with felt wheels with bonded ab sition of a paste for buffing is also de oxide, 23% stearin, and 4% oleic acid).	estigation of flexible resive powder. The compa-
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MASLOV, Ye.N., doktor tekhn. nauk, prof.

[Technological processes for making magnetic drums] Tekhnologiia proizvodstva magnitnogo barabana. Moskva, Gos. izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1961. 52 p. (MIRA 14:11) (Magnetic memory (Calculating machinos))

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MASLOV, Ye.N., doktor tekhn. nauk, prof., otv. red.; KOST'YAN, A.Ya., red. izd-va; POINAKOVA, T.V., tekhn. red. [High-production grinding] Vysokoproizvoditel'noe shlifovanie. Otv. red. E.N.Maslov, Moskva, Izd-vo Akad. nauk SSSR. 1962. 246 p. (MIRA 15:4) 1. Akademiya nauk SSSR. Komissiya po tekhnologii mashino-

1. Akademiya nauk SSSR. Nomissiya po teknologii mashinostroyeniya.

(Grinding and polishing)

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KARATYGIN, A.M., kand. tekhn. nauk; KORSHUNOV, B.S., kand.
 tekhn. nauk; MAGLOV, Ye.H., prof., doktor tekhn.
 nuuk, retsenzent; ZAVOZIN, L.F., inzh., red.;
 IVANOVA, N.A., red.izdva; EL'KIND, V.D., tekhn. red.
 (Grinding and lapping metal-cutting tools) Zatochka 1
 dovodka rezhushchego instrumenta. Izd.2., perer.i
 dop. Moskva, Mashgiz, 1963. 270 p. (MIRA 16:12)
 (Metal-cutting tools)
 (Grinding and polishing)

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L 38956-65 EPA(s)-2/EWT(m)/EDF(n)-2/EPA(w)-2/EWP(b)/EWP(e) Pab-10/Pt-10/ ACCESSION NR/ AP5008254 Pu-4 MS S/0122/65/000/003/0059/0061 AUTHOR: Masloy, Ys. N. (Doctor of technical sciences, Professor). TITLE: Surface purity of mineral-ceramic specimens of high hardness after treatment SOURCE: Vestnik mashinostroyeniya/no. 3, 1965, 59-61 TOPIC TAGS: surface hardness, surface roughness, ceramic, light reflection/ FESS U 2 photocell, I 8 galvanometer, 371M :grinder, K3608M2K grinder; KZ abrasive ABSTRACT: The surface smoothness of hard mineral-ceramics after grinding was

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Correst necessing sharping ith an increase in surface perceity of the speciment Correst and the former. FILLENCUCE) 7 200 ENGL: 00 SUB CODE: 2 M NO REF SOVA 000 OTHER 1 000 総新会 2月

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9(2) AUTHOR:	Maslov, Ye.P. SOV/115-59-9-24/37
TITLE:	A Method of Extending the EMF Measuring Ranges by Direct Current Potentiometers
PERIODICAL:	Izmeritel'naya tekhnika, 1959, Nr 9, pp 43-44 (USSR)
ABSTRACT :	The author suggests a differential method of measur- ing emf's of several volts by direct current poten- tiometers. The upper limit of direct current potenti- ometers is usually around 2 volts. One or several standard cells are connected in series with the emf to be measured, but with opposite polarity. Actual- ly, the difference between the emf to be measured and the standard cell(s) is determined, whereby the emf of the latter is known with great accuracy. Emf's of several volts may be measured with this method. However, it is not adviseable to connect a greater number of standard cells. The application of the differential method increases the relative accuracy of the measurements considerably compared to the
Card 1/2	reading accuracy of the instrument with which the

A Nethod of Extending the EMF Measuring Ranges by Direct Current

difference is measured. Another advantage of this method is that the working current for the potenticmeter must not be increased which is very undesireable in many cases. When using a voltage divider, the circuit of the voltage to be measured is closed by a finite resistor and one of the advantages of the compensation method is lost. The method suggested by the author, however, may be used without losing the advantages of the compensation method. He describes briefly the measuring procedure which is performed in the conventional sequence. There is 1

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30511 S/194/61/000/008/065/092 D201/D304

9,2586 AUTHORS:

Sredniy, I.Ye. and Maslov, Ye.P.

TITLE:

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11

The theory of a multivibrator with a capacitance in the cathode circuit

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961. 10, abstract 8 I76 (Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, 1960, v. 3, 45-50)

TEXT: The cathode coupled multivibrators nowadays take a prominent place among the multivibrator circuits. The analysis is given of the flip-flop type circuit differing by the presence of parallel connected resistance and capacitance in the cathode circuits of both valves. The special feature of circuits of this type is that the valves are cut-off in their cathode circuits. The circuit permits the oscillation frequency to be varied from a few cycles to 100 kc/s and at small values of capacitances the oscillations are nearly sinusoidal. The system is described by the equations of the

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SREDNIY, I.Ye.; MASLOV, Ye.P.

One problem in the theory of self-oscillation. Izv.vys. ucheb. zav.;radiofiz. 4 no.6:1138-1148 '61. (MIRA 14:12)

1. Odesskiy elektrotekhnicheskiy institut svyazi. (Oscillations)

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S/105/62/000/006/002/002 E200/E435

AUTHOR:

Some problems in the theory of systems generating discontinuous oscillations

PERIODICAL: Elektrichestvo, no.6, 1962, 31-39

Maslov, Ye.P. (Odessa)

TEXT: Some of the mathematical devices for dealing with linear and nonlinear circuits operating in the self-oscillatory mode are studied: expansions in terms of the elementary discontinuous functions y = |x|, the step function $y = E_1(x)$ and the periodic function of form $G_1(x) = x - E_1(x)$ (Fig 3) as well as expansions using modified Laguerre polynomials

 $L_{n}(t) = \frac{1}{n!} e^{\psi \Phi} \frac{d^{n}}{dt^{n}} \left[(\psi \Phi)^{n} e^{-\psi \Phi} \right]$

where the functions $\psi(g, t, t)$ and $\tilde{\Phi}(g, t, t)$ are represented by the graphs of Fig.4. These, generally applicable, methods are applied to several problems of investigating typical selfoscillatory systems which are complicated in the sense that the discontinuous self-oscillatory process arises from the presence in Card 1/2

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Some problems in the theory ... S/105/62/000/006/002/002the circuit of a nonlinear element whose characteristic is a

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function continuous together with all of its derivatives. The results obtained are illustrated by experimental data. The methods are used to determine the self oscillation parameters in systems described by first and second order differential equations. Circuits of vacuum tube oscillators, widely used in automatic control and pulse technology, are considered. There are 10 figures.

SUBMITTED: March 15, 1962

Card 2/1 2

APPROVED FOR RELEASE: 06/14/2000

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810003-3 MASLOV, Ye.P. Concerning the theory of a blocking oscillator. Radiotekhnika (MIRA 15:7) 17 no.8:53-58 Ag '62.

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi imeni Popova. (Oscillators, Electron-tube)

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CIA-RDP86-00513R001032810003-3

MASLOV, Ye.P. (Moskva)

Application of the theory of statistical solutions to problems of the evaluation of the parameters of an object. Avtom. i telem. 24 no.10:1338-1350 0 *63. (MIRA 16:11)

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1. 19464-65 BAT(C)/BAP(1) Po-4/Pg-4/Pg-4/Ph-4/P1-4 LIP(C)/ABDC(B)/ASD(B)-5/ ASD(S)/AFMDC/AFETR/RAEM(C)/ESD(CP) MLK/BC ACCESSION NR: A T4047/39 S/0000/64/000/000/0022/0732

AUTHOR: Maslov, Ye. P.

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Ο.

TITLE: One method of evaluating plant parameters

SOURCE: AN SSSR. Institut automatiki i telemekhaniki. Teoriya i primeneniye avtomaticheskikh sistem (Theory and application of automatic systems).

SOURGE: AN DOSA, motiful avioustic application of automatic systems). aviomaticheskikh sistem (Theory and application of automatic systems). Moscow, Izd-vo Nauka, 1964, 22-321

TOPIC TACS: automatic control, automatic control theory, <u>optimal control</u> system

ABSTRACT: An adaptive automatic-control system which uses a computer for calculating the plant characteristics is theoretically considered. A scheme for determining the plant characteristics on the basis of its input and output signals is shown in Enclosure 1. The system is time-quantized but not level-quantized; all random values are regarded as statistically independent. The proximity between

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random values are regarded as statistically independent. The proximity between the real and estimated parameter values is selected as an optimality criterion. A Bayes problem is considered for a single-input, single-or put plant that has a

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L 19161-65 ACCESSION NR: AT404	17739		-
memory. The form of	the plant equation is supposed to		
	fer function are determined on t . As the input and output inform		2
computer via noisy char	inels, the theory of statistical d	ecisions is used for	
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	the time moment s, y, and z, and H, respectively. Two part		
	tion of the gain of an inertialess inertial unit. The cumbersome		
	the method. Orig. art. has: 7		
ASSOCIATION: none			
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ACCESSION NR: AP4015305	S/0280/64/000/001/0175/0181
AUTHOR: Zhivoglyadov, V. P. (Mose	cow); Maslov, Ye. P. (Moscow)
TITLE: Problem of evaluating essent	ial parameters of a plant
SOURCE: AN SSSR. Izvestiya. Tekhn	icheskaya kibernetika, no. 1, 1964, 175-181
TOPIC TAGS: automatic control, con controlled plant essential parameters	trolled plant, controlled plant parameters, , automatic control theory
ABSTRACT: The theory of statistical parameters of a controlled plant with signals and the state of the plant. In (Enclosure 1), via channels G and H	decisions is used to evaluate the essential incomplete information about the input out u and output x signals of the plant O with noise g and h, are applied to a and is characterized by a vector of essential incompleted by $\overline{1}$. An algorithm of the
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ACCESSION NR: AP401530						
essential-parameter vector corresponds to an optimality criterion; the latter is represented by a mathematical expectation of a loss function $W_*(s, \overline{\mu}, \overline{\gamma})$. Here, u_x and y, are input and output signals at the moment s, respectively. "In conclu- sion, the authors wish to thank A. A. Fel'dbaum for his attention and valuable advice." Orig. art. has: 4 figures and 42 formulas.						
ASSOCIATION: none						
SUBMITTED: 22May63	DATE ACQ: 12Mar64 ENCL: 01					
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CIA-RDP86-00513R001032810003-3

s/0103/64/025/001/0073/0082 ACCESSION NR: AP4011320 AUTHOR: Maslov, Ye. P. (Moscow) TITLE: Assessing parameters of Markov-type plants SOURCE: Avtomatika i telemekhanika, v. 25, no. 1, 1964, 73-82 TOPIC TAGS: automatic control, Markov plant automatic control, assessing automatic plant parameters, automatic plant parameters, Markov plant theory ABSTRACT: The theory of statistical decisions is applied to a case when input and output plant signals are fed to a computer via channels having random additive noise. Methods developed in the theory of dual control of Markov-type plants are used to obtain formulas for risk and for optimum evaluation of parameters. The latter formula is valid for the case when the form of the plant equation is known and its coefficients represent a uniform Markov's chain. The evaluations are determined from the realizations of input and output signals of the plant. An ----Cord 1/2

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ACCESSION NR: AP4047575	8/0103/64/025/010/1442/1450
AUTHOR: Maslov, Ye. P. (Mosco	이상은 물건에 가는 것이 있는 것 같은 것은 것은 것은 것은 것은 것이 같은 것 같은 것 같은 것 같
TITLE: Statistical self-adaptive m	
SOURCE: Aviomatika i telemekhan	nika, v. 25, no. 10, 1964, 1442-1450
coaracteristics are determined by	1 of a plant is a controlled model whose
Jan, with a subsequent minimizati	ion of the discrepancy between them. The lel is solved by using the theory of statistical
Inside at 11 11	11 18 HEAR IN HOWALANING SUNJAMINING IN
to the the theory of dual control	
The system is only time-quantized.	no level-quantization is employed; all e time moments $s = 1, 2, 3$ In a Bayes-

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type problem, the input signal X and noise g and h are sequences of random quantities having constant distribution densities $q(h_0)$, $q_1(g_0)$, $q_3(x_0)$. A one-input one-output plant has a memory, and its operator is known; $V_1 = F_0(s, \overline{\Lambda}, X_0)$, where $\overline{\Lambda}$ is the vector of rand m parameters and $X_1 = (X_1, X_2, \dots, X_n)$. The methods of combining the signal with noise in G and H channels are known and constant, the channels having no memory. Orig. art. has: 1 figure and 55 formulas.

ASSOCIATION: none

SUBMITTED: 26Dec63

SUB CODE: IE

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ENCL: 00

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Card 2/2

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<u>L 24708-65</u> EWT(d) Po-4/Pg-4/Pg-4/Pk-4/P1-4 AEDC(a)/SSD/ASD(a)-5/AFMDC/AFETR/ AFTC(p)/RAEM(a)/RAEM(d)/ESD(dp)/IJP(c) BC

AGGESSION NR: AP5001760 S/0103/64/025/012/1677/1689

AUTHOR: Maslov, Ye. P. (Moscow)

TITLE: Statistical self-adaptive model. Part 2

SOURCE: Avtomatika i telemekhanika, v. 25, no. 12, 1964, 1677-1689

TOPIC TAGS: self adaptive plant model, automatic control, automatic control design, automatic control system, automatic control theory

ABSTRACT: Based on the theory set forth in Part 1 (see Abstract AP4047575), an example of synthesizing an optimal self-adaptive model is worked out. No noise in channel G and a determinate input signal X are assumed. With denotations given in Enclosure 1, in the s-th clock cycle:

$$Z_{\bullet} = V_{\bullet} + h_{\bullet} = \Lambda \sum X_{i} + V_{\bullet} + h_{\bullet},$$

where Λ is a chance amplification factor and V, is the initial value of the integrator output signal. Equations describing the optimal control of a plant are

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L 24708-65	(비행사 및 행장의 사진을 방법적인 이것이 없는 이것이 좋아서 관계적 것이라는 것이다. 한 사진에서 가격하지?	n de la filmente de la filmente de la filme de la filme de la contra de la contra de la contra de la contra de Regione de la filmente de la filmente contra de la contra d	
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ACCESSION NR: AP500176	60		
constant distribution densit is found that the optimal co \circ -rcontrol of λ (a true va- decreases and extends over errors in the plant amplific mathematical-expectation e to the error associated with presence of noise are press Fel'dbaum for a statement	ontrol of the model, without alue of Λ); in the presence r a longer period. The mod cation factor; it is also only error: also, it is less sens h β^2 . Oscillograms of tuni ented. "In conclusion, the of the problem and discussi	ording to the normal law. It noise, is realized with an of noise, the overcontrol tel does not accumulate slightly sensitive to the itive than open-loop systems ng the integrator in the author wishes to thank A. A.	
nas: 8 figures and 64 form	ulas,		
ASSOCIATION: none			22
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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810003-3 MASLOV, Yevgeniy Petrovich; KEREFOV, Kambulat Nauruzovich. Frinimala uchastiye KOTSYUBILSKAYA, V.D.; KAZMAKHOV, I.E., red.; KUANTOV, A.T., red. [Studies on the economic geography of the Kabardino-Balkar A.S.S.R.] Ocherki ekonomicheskoi geografii Kabarding-Balkarskoi ASSN, Nal'entk, Kabarding-Balkarskoe kniztmoe izd-vo, 19:4. 232 P. (01:31 AnIM)

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	ACC NR. AT6022687 SOURCE CODE: UR/0000/66/000/000/0183/0194	\mathbf{r}
	AUTHOR: Zhivoglyadov, V. P.; Maslov, Ye. P. 3/	
	ORG: none 30 B+1	91 49
	TITLE: On the synthesis of near-optimum dual-control systems	
	SOURCE: Moscow. Institut avtomatiki i telemekhaniki. Samoobuchayushchiyesya avtomaticheskiye sistemy (Self-instructing automatic systems). Moscow, Izd-vo Nauka, 1966, 183-194	•••••••••••••••••••••••••••••••••••••••
	TOPIC TAGS: optimal automatic control, automatic control theory, approximation method	
	ABSTRACT: The article deals with specific computational problems frequently encountered in the synthesis of practical dual-control systems. Several approximating methods are proposed for the synthesis of such systems having active information accumulation. A discrete-continu- ous system with quantizing in time is analyzed (level quantizing is omitted). The operator of the object, the loss function, as well as the probability densities of all random quantities are considered to be known, with all interference and random parameters regarded as statistically independent. Both communication channels are assumed to be subject to noise and to have no retent vity, with the driving effect reaching the control element over a communication channel free of interference. Five different approximation methods are described, along with several Cord 1/2	

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examples of their apple a concrete example is method with an accura approach to the proble practically important A comparative analysi presented. The author results of the work.	used to compare te computer-deri m of analytically cases, although t s of the suitabilit r expresses his s	a control lved law. synthesiz he exampl ty of the m gratitude to	The method ing dual-con es given are to A. A. Fel	s propose atrol syste basically nertial an dbaum fo	d provide ems in a w y of an illu id noniner	a realistic de variety istrative na tial objects	of ture.
SUB CODE: 09,12/					rh ref:	002	
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DRG: none TITLE: On the theory of the optimum statistical self-adjusting model SOURCE: Moscow. Institut avtomatiki i telemekhaniki. Samoobuchayushchiyesya avtomaticheskiye sistemy (Self-instructing automatic systems). Moscow, Izd-vo Nauka, 1966, 304-311 TOPIC TAGS: self organizing system, optimal automatic control, automatic control theory ABSTRACT: This work uses the basic concepts of the theory of dual control to con- struct a self-adjusting model and determines its characteristics by comparing its output signal to the output signal of the plant, subsequently minimizing the dis- agreement criterion between these signals. The author in general studies a discrete- continuous system, examines the Bayes problem, has a plan: characterized by vector A of a random variable, assumes that methods of combinit, signals in channels G and H are known and unchanged (the channels having no memory), and assumes that the operator of the model has been selected. Optimum signal is the one for which the complete risk (mathematical expectation of W) is minimum. Working with the generalized block dia- gram, the author solves the problem for the different variables (a series of rules for Cord 1/2	AUTHOR:	Maslov, Ye. P.		Atl.
SOURCE: Moscow. Institut avtomatiki i telemekhaniki. Samoobuchayushchiyesya avtomaticheskiye sistemy (Self-instructing automatic systems). Moscow, Izd-vo Nauka, 1966, 304-311 TOPIC TAGS: self organizing system, optimal automatic control, automatic control theory ABSTRACT: This work uses the basic concepts of the theory of dual control to con- struct a self-adjusting model and determines its characteristics by comparing its output signal to the output signal of the plant, subsequently minimizing the dis- agreement criterion between these signals. The author in general studies a discrete- continuous system, examines the Bayes problem, has a plan: characterized by vector A of a random variable, assumes that methods of combinit; signals in channels G and H are known and unchanged (the channels having no memory), and assumes that the operator of the model has been selected. Optimum signal is the one for which the complete risk (mathematical expectation of W) is minimum. Working ith the generalized block dia- gram, the author solves the problem for the different variables (a series of rules for			Ч	
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struct a self-adjusting model and determines its characteristics by comparing its output signal to the output signal of the plant, subsequently minimizing the dis- agreement criterion between these signals. The author in general studies a discrete- continuous system, examines the Bayes problem, has a plant characterized by vector A of a random variable, assumes that methods of combinit, signals in channels G and H are known and unchanged (the channels having no memory), and assumes that the operator of the model has been selected. Optimum signal is the one for which the complete risk (mathematical expectation of W) is minimum. Working with the generalized block dia- gram, the author solves the problem for the different variables (a series of rules for	TOPIC TA	S: self organizing system, optimal a	utomatic control, automati	c control
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WSGR/Grouphymics - Lakes, Baikhaah "Some Problems of Agricultural Ten thash Region," Ye. P. Mazlov, Inst	"It Ak Nauk SSSR, Ser Geog" No 1, pp ¹ Lake Balkhash is peculiar for its free its west shores and saline water on it The west shore is an important water s the construction of railroads linking to Karaganda. It is expected to be a artificial irrigation, transforming de into fertile lands. New water wells s	UBGR/Geophysics - Lakes, Balkhash (Contd) (Contd) using drilling machines driven by wind. of gardens on desert sands will result lin's improvement of nature.	
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Mar/Apr 53 Jeview of Natural Conditions of Northwest Caucasia 246153 Bol'shoy Kavkaz. Chief editor, Acad S. G. Strumilfn, responsible editor, Prof Dr of Agric Sci V. D. and Methods for Rational Utilization of These Conditions in Agricultural Production," Ye. P. Maslow 246E53 Forces, Acad Sci USSR. Published by Acad Sci USSR ders to the Shepsa River Basin. Chief editor, Acad Black Sea Shore Line From the Abkhaz Boreditor, Acad B.B. Polynov, responsible editor, Prof Dr of Agric Sci V.D. Kislyakov, Moscow, 1952, 1,500 Discussion of works composed by a collection of scientific workers of the Caucasian and Black Seg B.B. Polynov, responsible editor, Prof Dr of Agric expeditions, Council for the Study of Production Press, Moscow, 1950 - 1952. Divided into three parts: Bart I. Foothills of the North Slopes of Sei V.D. Kislyakov, Moscow, 1951, 2,000 copies. Part III. Black Sea Shore Line From the Shepsa River Basin to the City of Novorossiysk. Chief "Is Ak Nauk SSSR, Ser Geograf" No 2, pp 60-64 Lislyskov, Moscow, 1950, 2,000 copies. UCCR/Geography - Caucasia (reviewer) Part II. PA 246T53 •E. •d

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Anthors,	Maslov, E. P., Cand, of Econom, Sc.
Title	: Northern Kazakhstan USSR
Periodical	: Nauka 1 Zhizn', 6, 37 - 38, June 1954
Abstract	: A tourists notes on the agricultural possibilities of northern Kazakhstan, irrigation possibilities, cattle raising stc. Map of north Kazakhstan regions is included.
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USSR/Agricult	ure
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Author	Maslov, E. P., Cand. in Economic Sciences
Tltle	I Irrigation on the Ciscaucasian Steppes
Periodical	; Nauka 1 Zhizn' 21/2, 31-32, Feb/1954
Abstract	: The Ciscaucasian Steppes lack moisture. For agriculture and stock raising irrigation was introduced and in 1935 main canals were dug drawing water from the Terek, Malka and Kuma rivers, furnishing water for 500 thousand hectares of land. The systems have been extended and a canal has been dug connecting the Kuban and Erolyk rivers. By such irrigation a dry region has been turned into a source of grain and meat.
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MASLOY, Ye.F.
Development of productive forces of the Morthern Caucasus during the sixth five-year plan. Izv.AN SSSR. Ser.geog. no.5:35-45 S-0 '56. (NERA 9:11)
1. Institut geografii Akademii nauk SSSR. (Caucasus, Northern--Reonomic policy)

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MASLOV, Yevgeniy Petravich; MIRONOV, M.G., redaktor; HOGINA, N.I., tekhnicheskly redaktor

[In the steppes and foothills of the Caucasus] V stepiakh i predgor'lakh Kavkaza. Moskva, Gos. izd-vo geogr. lit-ry, 1956. 149 p. (MLRA 10:2)

(Gaucasus, Northern--Physical geography)

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MASLOU, YE. P.

PHASE I BOOK EXPLOITATION

265

Maslov, Ye. P. and Kerefov, K. N.

Ekonomiko-geograficheskiy ocherk Kabardino-Balkarii (Economic and Geographic Study of Kabardino-Balkariya) Moscow, Izd-vo AN SSSR, 1957. 173 p. 3,000 copies printed.

Sponsoring Agency: Kabardino-Balkarskiy nauchno-issledovatel'skiy institut pri Sovete Ministrov Kabardino-Balkarskoy ASSR.

Resp. Ed.: Shcherbakov, D. I., Academician; Ed. of Publishing House: Khatskelevich, L. M.; Tech. Ed.: Pavlovskiy, A. A.

PURPOSE: The book is intended for general readers, and those interested in this region. In the text and title the region is referred to by its conventional name, Kabardino-Balkariya, or simply Kabarda (the full name is: Kabardino-Balkarskaya ASSR). The book was published to commemorate the 400th anniversary of the annexation of this region by Russia.

Card 1/5

APPROVED FOR RELEASE: 06/14/2000

Economic and Geographic Study (Cont.)

265

COVERAGE: The book contains five chapters which cover the natural conditions, history, economy, population and geographical-economic regions of Kabardino-Balkariya. All statistical material is for the years 1955 and 1956. The subchapter on industries is a thorough survey, but lacks production figures. The small republic (12,500 square kilometers; 359,000 inhabitants) is today one of the 70 economic regions into which the RSFSR is divided. Its economic significance, according to the author, lies in the local nonferrous and rare ores, and especially in the Tyrny-Auz tungsten and molybdenum deposits. Some details on the facilities at Tyrny-Auz are given. There are also deposits of lead and zinc and to a lesser extent, nickel, arsenic, chrome and tin. Coal is mined in the region south of Bylym (between the Upper Baksan and the Upper Chegem) and building materials are quarried near Nal'chik. The republic is particularly rich in volcanic tuff. The Baksan Hydroelectric Power Plant on the Baksan River (north of Nal'chik) supplies part of its surplus power to Groznyy and feeds also the Kislovodsk-Mineral'nyye Vody electric railway.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810003-3 NEXT DEPENDENT OF THE SECOND STREET HAR STREET, ST 265 Beconomic and Geographic Stury (Cont.) The subchapter on local transportation presents valuable data on the length of Kabarda's highways. The only large machine-building enterprise is at Nal'chik. It manufactures petroleum equipment, especially pumps. Fcodprocessing establishments make up 68.6 percent of industry of the region. There are 29 maps illustrating the economic conditions of the republic. Of 28 photographs, only one shows an industrial object, viz., a general view of the Nal'chik Candy Factory. Economic conditions are further illustrated by statistical tables. There are 26 tables and 56 Soviet references. 3 TABLE OF CONTENTS: Forvord 5 Introduction 9 9 Ch. I. Natural Conditions and Resources Topography, geology and mineral wealth 28 34 38 Climate Hydroelectric potential Soil, flora and fauna Card 3/5

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MASLOV, Te.P., kandidat geograficheskikh nauk (Moskva) Important region in Ukraine ("Lower Daisper region"; a study in sconomic geography by A.A.Rhishniak. Reviewed by B.P. Maslov). (MIRA 10:3) (Daisper Valley-Sconomic geography) (Khishniak, A. A.)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810003-3 2016年3月1日1日1日1日 MASLOV, Ye.P. Problems of agricultural development in the North Caucasian Beconomic Region. Izv. AN SSSR. Ser.geog. no.6 50-59 J-D 162. (MIRA 15:12) 1. Institut geografii AN SSSR. (Caucasus, Northern-Agriculture)

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ACC NR: AP6021402	SOURCE CODE: UR/0103/66/000/006/0204/0224
AUTHOR: Maslov, Ye. P. (Moscow	v, Voronezh); <u>Osovskiy, L. M.</u> (Moscow, Voronezh) 53
ORG: none	
TITLE: Self-adaptive control system	ms with a model
	<u> </u>
SOURCE: Avtomatika i telemekhani	ika, no. 6, 1966, 204–224
TOPIC TAGS: self adaptive control control theory	, servomechanism system, stochastic process, automatic
self-adaptive control systems which	ors discuss the basic r oblems encountered in the theory of incorporate a mode for simulation. Also analyzed are d synthesis of these systems. A review is presented of
Various problems in the analysis and	French, Japanese and other works. Among the problem
discussed are: the selection of the	model structure, criteria to be used in the comparison of
the actual object with the model, de	terministic methods for the analysis and synthesis of sy-
tems having a linear plant (including	g the method of induced artificial perturbation of the mode
parameters), deterministic methods	s for nonlinear system analysis and synthesis, and statist tem analysis and synthesis. The authors wish to express
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s/0269/64/000/004/0073/0073 ACCESSION NR: AR4039241 SOURCE: Ref. zh. Astronomiya, Abs. 4.51.490 AUTHOR: Maslov, Ye. V. TITLE: The problem of the height and intensity of explosion of the Tunguska meteorite CITED SOURCE: Tr. Tomskogo otd: Geogr. o-va SSSR, Betatron. labor. Tomskogo med. in-ta, v. 5, 1963, 105-112 TOPIC TAGS: meteorite, Tunguska meteorite, atmospheric shock wave, nuclear explosion TRANSLATION: The flattening of the forest at the site of explosion of the Tunguska meteorite was caused by the horizontal component of a shock wave forming as a result of superposing of the incident and reflected waves. Data on muclear explosions make it possible to determine the excess pressure \triangle p as a function of distance to the center of the explosion and the angle of 1/2 Card

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incidence of the wave. The function $\triangle p = f(r)$, where r is distance from the epicenter, has the parameters: h -- height of the center and W -- energy. It first increases and then decreases. The forest flattening begins at $r_1 = 3$ km and ends at $r_2 = 15$ km. These boundaries correspond to 50% flattening, for which it would be necessary to have $\triangle p = 0.2$ kg/cm². Hence: h = 7.440.7 km; W = 5.042.5 megatons. If it is assumed, in accordance with K. P. Florenskiy's data, that $r_1 = 4$ km and $r_2 = 25$ km, then. h = 11.7 km, W = 23 megatons. The computations also are confirmed by a rough estimate, indicating that the height of the aerial explosion was equal to the radius of maximum destruction. I. Zotkin.

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> 852 PHASE I BOOK EXPLOITATION

Maslov, Yuvenaliy Aleksandrovich

Vozdushno-elektrodugovaya rezka metallov (Compressed-air Arc Cutting of Metals) Moscow, Mashgiz, 1957. 38 p. (Series: Obmen tekhnicheskim opytom) 8,000 copies printed.

- Reviewer: Torshilov, V.M., Engineer; Ed.: Galaktionov, A.T., Candidate of Technical Sciences; Tech. Ed.: Sarafannikova, G.A.; Executive Ed. (Ural-Siberian Division of Mashgiz): Bezukladnikov, M.A., Engineer.
- PURPOSE: The booklet is intended for welders and foremen engaged in electric arc and gas cutting of metals.
- COVERAGE: The author discusses the compressed-air arc cutting process noting its advantages over other methods of cutting. The

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Compressed-air Arc Cutting of Metals 852

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compressed-air arc cutting process is used principally for gouging and cutting steel and bronze parts. It may also be used to remove defective weld sections, to cut off rivet heads, to remove risers and gates from castings and to perform other cleaning and dressing operations. With the cooperation of welder G.A. Savelkov, the author designed two types of cutting torches for the compressed-air arc cutting process. There are three Soviet references.

TABLE OF CONTENTS:

Introduction3The Nature and Advantages of Compressed-air Arc Cutting5Equipment for Compressed-air Arc Cutting7Apparatus for Compressed-air Arc Cutting9Electrodes12Technology of Compressed-air Arc Cutting13Card 2/313

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Compressed-air Arc Cutting of Metals 852		
Other Applications of Compressed-air Arc Cutting	25	
Engineering and Economic Indices and Development Prospects for Compressed	25	
Prospects for Compressed-air Arc Cutting	28	
Safety Measures in Compressed-air Arc Cutting Supplement	30	
	35	
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AVAILABLE: Library of Congress (TJ1191.M3)	39	-
Card 3/3 GO/jmr 12-8-58		

135-5-10/14 USSR/Welding SUBJECT: AUTHOR: Naslov Yu. A., Engineer Air-Arc Metal Cutting. (Vozdushno - dugovaya rezka metallov). TITLE: "Svarochnoye Proizvodstvo", 1957, # 5, pp 26-27 (USSR). PERIODICAL: At one of the machinebuilding plants in the Urals the author has ABSTRACT: developed a new cutter for carbon arc cutting which applies compressed air to blow out the metal which melts in the process. The cutter construction and the technology practiced are described in full detail. Cutting is achieved with the same clean lines and speed as with oxygen cutting devices. The article contains two tables and two photographs. • ASSOCIATION: Not stated. PRESENTED BY: SUBMITTED: AVAILABLE: At the Library of Congress. Card 1/1

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CIA-RDP86-00513R001032810003-3"
"APPROVED FOR RELEASE: 06/14/200 CIA-RDP86-00513R001032810003-3 HIEHATLOV, G.P.; MASIOV. Yu.A.: POPONOV, A.A.; GALAKTIONOV, A.T.; PODENOV, YGT.; NIKONOV, I.P.; DENISOV, Yu.A.; SHAPKOV, B.K.; SHATOV, K.Ts.; MIKHATLOV, S.I.; PETUNIB, I.V.; KHOVANETS, V.K.; KOCHEVA, G.I.; LANUTIBA, E.A. In memory of A. I. Akhun; an obituary. Svar:proizv. no.12:46 D '57. (MIRA 11:1) 1.Sot::dniki Kafedry "Oborudovaniye i tekhnologiya svarochnogo proizvodstva" Urai'skogo politekhnicheskogo instituts imeni S.D. Kirova. (Akhun, Alekdendr 11'ich, d. 1957)

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PLASE I BOOK EXPLOITATION SOV/3913

Maslov, Yuvenaliy Aleksandrovich

Svarochnoye proizvodstvo (Welding) Moscow, Mashgiz, 1959. 328 p. 21,000 copies printed.

Reviewers: S.I. Mikhaylov, Candidate of Technical Sciences, and L.K. Filonov, Engineer; Ed.: Yu.A. Denisov, Engineer; Exec. Ed. (Ural-Siberian Division, Mashgiz): A.V. Kaletina, Engineer; Tech. Ed.: N.A. Dugina.

PURPOSE: This book is intended for students of machinery tekhnikums not specializing in welding, and technical personnel in welding.

COVERAGE: This book contains information on manual and automatic arc welding, resistance and gas welding, and cutting. Historical data and techniques of welding of steels, cast iron, and nonferrous metals are presented. Also discussed are strains and stresses occurring during welding, electric and gas-flame welding equipment, quality control, engineering and economic bases of welding processes,

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and safety engineering. No personalities are mentioned are 14 references, all Soviet.	. There	
PARLE OF CONTENTS:		
Introduction		3
Symbols Used in This Textbook		4
 Ch. I. History of the Development of the Welding of Meta 1. Origination of the welding of metals 2. Development of welding and cutting in the USSR 3. Furpose of welding and cutting of metals 4. Classification of welding methods Review problems Bibliography 	LS	5 9 12 14 22
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GALAKTIONOV, A.T.; DENISOV, Yu.A.; KOPYTOV, G.T.; <u>MASLOV, Xi.A.;</u> PIKONOV, I.P.; PIKTUNIN, I.V.; KOCHEVA, G.N.; KUZMERSOV, A.P.; LKLEKO, N.M.; RAZIKOV, M.I.; SPISHKOV, V.V.; STRPANOV, B.V., STEPANOV, V.V.; kend. tekim. mak; SHELOMOV, B.V.; YUMTSHEN, G.P.; YEJ'KOV, K.A.; dots., retsenzent; PATSKEVICH, I.R.; dots., retsenzent; BEREZKIN, P.N.; dots., retsenzent; PATSKEVICH, I.R.; dots., retsenzent; RUDAKOV, A.S.; dots., retsenzent; PIZHEEVN, N.B.; dinah., retsenzent; KHUSTALKV, L.Ya.; funzh.; retsenzent; KUUTIKHOVSKIY, V.G.; inzh.; red. BOBROV, Ye.I.; kand. tekim. nauk, red. DUGINA, N.A.; tekim. red.
Welding handbook] Spravoshnik raboshego-svarshchika. Pod red. V.V.Stepanova. Moskva, gos. nauchno-tekhnizd-vo mashinostroit. 11-ry, 1960. 640 p. (Nelding)

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PHASE I BOOK EXPLOITATION SOV/5998	
Maslov, Yuvenaliy Aleksandrovich, and Vladislav Dmitriyevich Gorozhanin	
Avtomaticheskaya svarka tonkolistovoy vysokoprochnoy stali (Automatic Welding of High-Strength Sheet Steel) Moscow, Mashgiz, 1961. 38 p. 8500 copies printed.	į
Resp. Ed.: L. A. Malanicheva, Engineer; Tech. Ed.: N. A, Dugina.	
PJRPOSE: This booklet is intended for engineers, technicians, and skilled weldors engaged in welding alloy steel sheets.	
COVERAGE: Experience gained by industry in the automatic welding of 30KhGSA a 2 25KhSNVFA alloy steel sheets is described. Information is given on the technology, equipment, and accessories used in the welding of these steels. The welding of tubes and tanks with 1 to 2 mm-thick walls made from 1Kh18N9G steel and used in aggressive media under pressures up to 200 atm. is also described. No personalities are mentioned. There are 6 references, all Soviet. Card 1/2	•

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> [Calculating the strength of spot-welded joints] Raschet prochnosti svarnykh tochechnykh soedinenii. Moskva, lzdvo "Mashinostroenie," 1964. 138 p. (MHz. 17:8)

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-BUTOVSKIY, G.K., kand. tekhn. nauk, dotsent; MASLOV, Yu.N., assistent

Graphoanalytic method for investigating the performance of an internal combustion engine by means of indicator diagrams. Izv.vys. ucheb.zav.; mashinostr. no.3:118-128 ¹60. (MIRA 14:3)

1. Saratovskiy avtomobil'no-dorozhnyy institut. (Gas and oil engines--Testing)

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Cand Tech Sci - (diss) "Study of basic indicator indices of trans-port engine operating on gas." Saratov, 1961. 20 pp with diagrams; (Ministry of Higher and Secondary Specialist Education RSFSR, Mos-cow Motor Vehicle and Road Inst); 150 copies; price not given; (KL, 5-61 sup, 191)

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MASLOV, Yu.N., inzh. Changes in the strength of the metal screens of papermaking machines occurring during their operation. Trudy LTITSBP no.11:49-53 '62. (MIRA 16:10)

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AUTHOR: MA	olov, Yu. N.		•	
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"APPROVED FOR RELEASE: 06/14/2000 MASLOV, Yu.N., kand.tekhn.ouuk; SYCHEV, V.P., kand.tekhn.nauk Establishing characteristics for the adjustment of carburation systems of engines with spark ignition. Izv.vys.ucheb.zav.; mashinostr. nc.7: 101-106 64. (MIRA 17:10) 1. Saratovskiy politekhnicheskiy institut.

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Sec.

Investigating the wear of the metal screens of papermaking machines at high speeds. Trudy LTITSBP no.13:112-120 ¹⁶⁴. (MIRA 18:2)

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L 6316-66 EWT (d) IJP(c)	SOURCE CODE:	UR/3021/64/000/242/0031/0036
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ORG: - Tashkent State University 1	m. V. I. Lenin (Tashke	mtskiy gosudarstvennyy
miversitet)	77,3-3	
TITLE: Integration of equations 76,449,557 SOURCE: Tashkent. Universitet. M analiticheskoy mekhaniki i podzem and underground hydraulics), 31-3 TOPIC TAGS: differential equation	lauchnyye trudy, no. 24 moy gidravliki (Proble 36	A AOLA TANADUT
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AUTHOR: Maslov, Yu. N.	
TITIE: Non-holonomic systems wi	th non-linear relationship
SOURCE: Ref. zh. Matematika, Ab	os. 8B185
FEF SOURCE: Nauchn. tr. Tashken	ntsk. un-t, vyp. 242, 1964, 37-47
	-control, mathematic method, second order equation
relationship, non-linear and hig ships are presented by "condition which serves for determination of	erialization of mechanical systems with nonholonomic gher than first order, are discussed. The relation- oned" equations, containing, besides the coordinates of the system's configuration, also additional coor- The following examples were analyzed: (1) a solid
moving along a rod, which has a	roller with the sharp edge rolling on the surface, nship to automatic control of acceleration of material es the non-linear nonholonomic relationship is of the
particle, etc. In these example	[A. Galanov]
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AUTHOR: Maslov, Yu. N.	, <u>57</u> .
TITLE: Integration of the equat	ions of motion of nonconservative system. B
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	d where the equations of motion of a nonconservative
(holonomic) mechanical system ar	e integrated of motion in intrinsic coordinates are
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similar to the Hamilton-Jacobi t	theorem. As an example the motion of a heavy
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A COMPANY AND A CO MASLOC 114.1. 51-1-6/18 and Maslov, Yu. P. Maslov, P. G. AUTHORS: On the Possibility of Prediction of Vibrational Spectra TITLE: of some Compounds from the Known Spectra of Other Compounds. (O vozmozhnosti predskazaniya kolebatel'nykh spektrov odnikh soyedineniy po izvestnym spektram drugikh). PERIODICAL: Optika i Spektroskopiya, 1957, Vol.III, Nr.1, pp.38-53. (USSR) Formulae of halogen derivatives of methane can be obtained ABSTRACT: as combinations of chemical formulae of other methane derivatives, e.g. CHXY2 = 0.5(CHY3 + CHYX2), where X, Y, are halogens. Knowing vibrational spectra (v.s.) for molecules CHY_3 and $CHXY_2$ and averaging their frequencies, one can obtain a good approximation to the Table 1 gives frequencies of v.s. of v.s. of CHYX2. halogen derivatives of methane calculated in this way. These calculated values are compared with experimental ones and are found to be in good agreement. Tables 2, 4, 5, 6, 7, 9 and 10 give values of vibration frequencies calculated in this way for methane halides, ethane halogen Card 1/3

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51-1-6/18 On the Possibility of Prediction of Vibrational Spectra of some Compounds from the Known Spectra of Other Compounds. derivatives, trimethylene halides, halogenated ethylenes, ethylene halides, certain simple molecules like SeF6, Tables 3, 8 and 12 give GeCl₄ and other compounds. vibrational thermodynamic functions calculated from vibration frequencies both obtained experimentally and determined in the way indicated above. From the results obtained the authors conclude that v.s. frequencies of the molecules discussed are approximately additive. This also applies to their intensities and polarizations. The spectra calculated by averaging are thermodynamically almost equivalent to the true spectra. In the majority of cases the spectra calculated by averaging have frequencies which are nearly identical with those calculated using the theory of molecular vibrations, and are close to the experimental values. The method proposed in this paper can be applied to frequency There are 12 tables, and 18 harmonics as well. references, 3 of which are Slavic. Card 2/3

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