EUMININ, V. V.





CIA-RDP86-00513R000928020

KUZIMIN, VIVI

Increasing Labor Productivity in Machine Building (Voprosy povysheniya proiavoditel'nosti truda v mashinostroenni) Gosudarstvennoye nauch-tekh. izdat. mashinostroitel'. literatury, Moscow, 1957, 511 pp. (Table of Contents authors below)

This collection presents a comparative tech. and economic analysis of most effective methods and industrial processes for obtaining high labor productivity in machine building a. Output may be stepped up by further standardization of machine tools, materials, and production methods; drawing on unused potentials. Covers all stages of planning and production as performed in modern plants of USSR, acatual experience, and new methods are discussed.

KUZ'MIN, V. V., "Standardization of Machine-Tool Instrumentation,"







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PROTASOV, A.I., dotsent; BOGDASHEV, N.F., prof., doktor veterinarnykh nauk, red.; KUZ'MIN, V.V., dotsent, red.; BORDDAYEV, A.A., red.; CHUNAYEVA, Z.V., tekhn.red.

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网络德国新闻

[Textbook for young vaterinary orderlies] Uchebnik dlia mladshego veterinarnogo fel'dshera. Izd.7., perer.i dop. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol.1. 1958. 512 p.; Vol.2. 1958. 664 p. (Veterinary medicine) (MIRA 12:1)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000928020(

"APPROVED FOR RELEASE: Monday, July 31, 200 CIA-RDP86-00513R000928020"
"UZ'MIN, Yitalir Tasli'revich: PANERATOV, Aleksandr Yakovlevich;
SMFMBHATW, Menset Abduramanovich; SHAPOVALOVA, Anna
Ivanovna; GOL'DSHTRYN, S.A., red.; BARANOVA, L.G.,
ivahorna; GOL'DSHTRYN, S.A., red.; BARANOVA, L.G.,
isthun.red.
[Practical lessons in veterinary microbiology] Prakticheskie
saniatila po veterinarnoi mikrobiologii. Pod red. V. V.Kus'mina.
saniatila po veterinarnoi mikrobiologii. Pod red. V. V.Kus'mina.
saniatila po veterinarnoi mikrobiologii. Pod red. V. V.Kus'mina.
(NIRA 12:7)
203 p. (Veterinary bacteriology)

"APPROVED FOR RELEASE: Monday, July 31, 200 CIA-RDP86-00513R000928020 SMFERSHATEV, Mamet Abduramenovich; SHAPOYALOVA, Anna Ivanovna; KUZ!MIK,I.V., doktor vet.nouk, red.; GGL'DSHTHYN,S.A., red.; GHUNAESVA, 2.V., tekhn.red. iRole of micro-organisms in stockbreedingj Rol' mikrobov v shivotnovodstve. Fod red.V.Kuz'mina. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 101 p. (MIRA 14:5) (Veterinary microbiology)

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FROTASOV, A.I., dotsent; SINKV, A.V., prof.; SMIRNOV, A.M., dotsent; BAZHENOV, A.N., dotsent; VIL'NER, A.M., prof.; BASHNURIN, A.Y., dotsent; SHAKALOV, K.I., prof.; VKILER, A.A., prof.; KIKANOROV, V.A., prof.; FXDOTOV, V.P., dotsent; KUZMETSOV, G.S., prof.; BOCHAROV, I.A., prof.; SHOHENDATYKH, P.Ya., prof.; TSION, R.A., prof.; GHIBANOVSKAYA, Ye.Ya., dotsent; ADAMANIS, V.P., assistent; KOLABSKIY, N.A., dotsent; MITSKEVICH, V.Yu., dotsent, DSENAA, N.V., dotsent; MISHKIN, P.P., dotsent; GUBAREVICH, T.Yu., dotsent; FINSTOKIN, V.A., prof. [deceased]; KUZ'MIN, V.Y., prof.; TEVDOKIMOV, P.D., prof.; POLYAKOV, A.A., prof.; POLYAKOV, P.Ya., red.; BARANOVA, L.G., tskhn.red. [Concise hendbook for the veterinarian] Kratkii spravochnik veterinarnogo vracha. Leningrad, Gos.izd-vo sel'khoz.lit-ry, 1960. 624 p. (WIRA 13:12) (Veterinary medicine)



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ANDREYEV, A.I.; SHISHKINA, Yo.Ya., veterin.vrach; GULIYEV, M.A., veterin.vrach; DUBAKIN, N.I.; FOMINA, A.Ya., kand.veterin.nauk; SOKKAR, I.M.Kh., aspirant; <u>KUZ'MIN, V.Y., pr</u>of.; TSIGENBORD, O.A., veterin.vrach
Laboratory practice. Veterinariia 40 no.7:66-76 Jl '63. (MIRA 16:8)
1. Direktor Akhtyrekoy meshrayonnoy veterinarnoy laboratorii, Sumskaya obl. (for Andreyev). 2. Veseoyuanyy institut eksperimental'noy veterinarii (for Shishkina, Fomina, Sokkar). 3. Respublikanskaya veterinariya laboratoriya Gruzimikog SSR (for Guliyev).
4. Moskovskaya oblastnaya veterinarnaya laboratoriya (for Dubakin).
5. Leningradskiy veterinarnyy institut (for Kuz'min, TSygenbord). (Veterinary medicine)

	6030799	(A, N)	SOURCE CODE:	UR/0346/66/000/00	9/0040/0040
AUTHOR: 7 Professor)	Csyro, V. A.	(Aspirant); Kuz'n	nin, V. V. (Dece	ased; Research dir	ector;
ORG: Leni	ngrad Veter	inary Institute (I	leningradskiy Ve	terinarnyy institu	t)
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antiger	Turkey orn Union. An Its use in shown that fixation,	ithosis is a compa ornithosis antigo recent tests of b there is a high p indicating that th	aratively new di en has been test Dirds on a large Dercentage of po ne disease is pr	e turkey farm has	it .
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KUZ MIN, V.V. na kana sa Lang Seminar of directors is an active form of promoting advanced practices. NTI no.1:16 465. (MIRA 18:6)







"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000928020 1. EOGOFALOV, I., IVASCHENKO, P., ROMANIUE, I., OLENIN, K., KOSTIN, YE., KUZ'MIN, YA. SSSR (600) 2. 4. Mineral Industries 7. Will give more coal and metal to the fatherland. Mast. ugl. 1 No. 8, 1952 9. Monthly List of Russian Accessions, Library of Congress, February _1953, Unclassified. 200000000 **USE**



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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000928020 n annimigite (distentionet) KUKIYIIN, YH. F. KLESHCHINSKIY, A.Ya., inzhoner; KUZ'MIN, Ya. F., inzhoner. Use and impregnation of spruce supports. Elek.sta. 27 no.11:46-48 N '56. (MIRA 10:1) (Wood---Preservation) (Spruce) (Electric lines--Poles)

ENC

KUZ'MIN, Ya.F., inshener. Improving the reliability of the power system and lowering the cost of transmitting electric energy. Elek.sta.27 no.12:33-37 D 156. (MIRA 10:1) (Electric power distributions) 280

KUZMIN YA.F.

TRANSMISSION LINES

"Electric Transmission Lines for 110 kv Without Anchored Towers" by Engineer Ya. F. Kuzmin, Elektricheskiye Stantsii, No. 5 May 1957, Pages 50 -- 54.

On the basis of operating experience with 110 kv lines, the author claims that the present design is too conservative. 110 kv line conductors very seldom break, other than under the influence of accidental factors, and such damage is practically independent of the safety factor used to design the conductors. It can therefore be recommended to use the minimum amount of copper possible, to employ intermediate wooden towers instead of anchored towers, and thus effect an economy of approximately 10 - 15%. The only precaution that must be taken is reinforcement of the insulator strings.

Card 1/1

建设和推动社会的组织。

- 44 -

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0009280 AUTHOR: Kuzmin, Ya.F., Engineer. 104-4-16/40

TITIE: The organisation of repair and operational work on transmission lines with mechanised repair stations. (Organizatsiya remontnykh i ekspluatatsionnykh rabot na liniyakh elektroperedachi remontno-mekhanizirovannymi stantsiyami)

PERIODICAL: "Elektricheskie Stantsii" (Power Stations), 1957, Vol. 28, No.4, pp. 58 - 61 (U.S.S.R.)

ABSTRACT: For a long time the operation and repair of transmission lines and sub-stations was organised on a territorial basis consisting of sections of 120 - 180 km of 110 kV lines with 3 to 5 sub-stations. The linesman and roundsman carried out major repairs on the lines and smaller repairs were carried out by the personnel of a single section. In 1955, the power system received two small and one large mechanised repair stations to become fully equipped. As soon as the repair stations were received the organisation of the work was altered so that the four territorial sections were replaced by two specialised sections, one for the line and the other for the sub-stations. The staff were especially trained in the new methods of
1/2 working. Considerable economies were achieved particularly in the number of staff required. Details are given in tables

The organisation of repair and operational work on transmission lines with mechanised repair stations. (Cont.)

in the paper. Some difficulties are still experienced. There are not yet machines for carrying out earth work and not all the equipment for mechanised repair of lines is available. It is concluded that the mechanisation of repair and operational work based on the use of mechanised repair stations resulted in a considerable reduction in staff during the first year and a half. It is expected that after the repair station has been working for three or four years the line staff will be halved. During this time economy in wages will completely cover the cost of the purchase of the stations. The stations should be completed by providing mechanisms for groundwork, for the repair of lines, with provision of further trailers and tracked vehicles. The mobile cranes should be mounted on machines able to run on rough country. More attention will be required to 2/2 repair and maintenance of the station equipment to ensure petrol supplies and to complete the construction of bases.

There are 3 tables. AVAILABLE:

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KUZ'MIN, Ya.F., dotsent

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Methods for calculating the reliability of an electric power supply system taking into account the possibility of the development of faults. Izv. vys. ucheb. zav.; energ. 5 no.1:30-36 Ja '62. (MIRA 15:2)

1. Rizhskiy politekhricheskiy institut. Predstavlena kafedroy elektricheskikh stantsiy. (Electric power distribution)

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KUZ'MIN Ya., kand.tekhn.nauk; MAKARENKO, I., nauchnyy sotrudnik; PERVAKOV, A., nauchnyy sotrudnik; TATARINOV, V., nauchnyy sotrudnik

> New developments in the design of a joint for series 1-464 houses. Na stroi.Ros. 4 no.6:29-30 Je '63. (MIRA 16:6)

1. Odesskiy inzhenerno-stroitel'nyy institut (for all except Kuz'min).

(Building-Details)

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5 (4) AUTHOR:Kuz'min, Ye. A.50828 SOV/76-33-10-26/45TITLE:Plotting of Composition - Property Diagrams of Multicomponent Equilibrium SystemsPERIODICAL:Zhurnal fizioheskoy khimii, 1959, Vol 33, Nr 10, pp 2271 - 2279 (USSR)ABSTRACT:The author devised a new method of plotting rectangular diagrams on the dependence of the properties of the afore-mentioned sys- tems on the composition. A diagram for a quaternary system is tems on the composition. A diagram for a quaternary system is tems on the composition of the straight-line intersections (by which the afore-mentioned rectangles are divided). Diagrams of the alloy Al - Cu - Mg - Si (60% Al, 6% Si) (Ref 1) are represented as planar section of the rectangular form into a triangular one. The author presents the five-component diagram of sea-water salt orystallization which was plotted according to data by Van't Hoff (Tables 1,2). Projected three-dimensional diagrams are shown			т., ^с
	AUTHOR: TITLE: PERIODICAL:	 Kuz'min, Ye. A. SOV/76-33-10-26/45 Plotting of Composition - Property Diagrams of Multicomponent Equilibrium Systems Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 10, pp 2271 - 2279 (USSR) The author devised a new method of plotting rectangular diagrams on the dependence of the properties of the afore-mentioned sys- tems on the composition. A diagram for a quaternary system is described here for which the concentration of the various com- ponents is represented by a rectangle (Fig 1). The composition- versus-property dependence of the equilibrium systems is defined by the position of the straight-line intersections (by which the afore-mentioned rectangles are divided). Diagrams of the alloy Al - Cu - Mg - Si (60% Al, 6% Si) (Ref 1) are represented as planar section of the tetrahedron and in rectangular form (Figs 3,4). Diagrams of sections through ternary systems may be transformed from the rectangular form into a triangular one. The author presents the five-component diagram of sea-water salt 	
	Card $1/2$	(Tables 1,2). Projected three-dimensional and	

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000928020 Plotting of Composition - Property Diagrams of Multi- SOV/76-33-10-26/45 which were plotted in analogy to rectangular plane diagrams. In this case, the number of points representing the compositionversus-property dependence is, however, reduced. Sections through multicomponent systems are, in principle, given by the wellknown method of representing two-component diagrams. There are 13 figures, 2 tables, and 2 Soviet references. SUBMITTED: February 15, 1958 Card 2/2 学们是"学生"的问题。 15 15 15 15 Stars 1.4 15.8757

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\$	S/169/62/000/008/052/090 E202/E192	
AUTHORS :	Bibilashvili, N.Sh., Zaytseva, A.M., Kuz'min, Ye.A., Lapcheva, V.F., Ordzhonikidze, A.M., and Sulakvelidze, G.K.	
TITLE:	Theory of the formation of large drop fractions in the heavy radial cumulo-nimbus clouds, and factors affecting these processes	
PERIODICAL:	Referativnyy zhurnal, Geofizika, no.8, 1962, 80, abstract 8 B 550. (In the collection: "Issled. oblakov, osadkov i grozovogo elektrichestva" ('Studies of clouds, precipitations and thunderstorm electricity') M., AN SSSR, 1961, 3-6).	
Caucasus and calculated terms of the of the anab	Using observational data from the strato-cumulus, . heavy cumulus clouds in the years 1956-1958 in Trans- d Caucasus, the growth of clouds' droplets was according to the method of Bouen and Kiryukhin, in e gravitational coagulation, assuming linear increase atic velocity w, with respect to the height z.	
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如我们的经济管理的现在分

s/169/62/000/008/052/090 Theory of the formation of large ... E202/E192 As a result of these calculations it was established that with the greater velocities of the vertical streams the drop does almost cease to grow during the anabatic branch of the trajectory. The droplets are retained in the upper part of the cloud, where the velocities are small and the principal growth of the droplets or hailstones occurs prior to reaching the upper portion of the cloud. With the aqueous exchange of 10^{-6} g/cm³, and the coefficient of catchment of 0.85, the position of the apex of the trajectory depends principally on the height z_1 , at which $w = w_{max}$ and the degree of decrease of w with height at which $z > z_{j}$. greater than the With the velocity of the anabatic stream Wmax velocity attained by the falling droplet with a radius of 2.5 mm of the v_{cr} , a chain reaction is started which leads to the accumulation of a large quantity of moisture in the upper part of the cloud and to the appearance of intensive showers. A cloud with $w_{max} < v_{cr}$ gives only a very short-duration and weak shower. Card 2/4

See an

s/169/62/000/008/052/090 Theory of the formation of ... E202/E192 In the case when the temperature of the cloud's top is lower than the temperature of natural crystallisation, hail is formed in the cloud and the size of the falling hail particles is determined by $R \ge 1/8w_{\max}^2 \rho(z) \rho(0),$ the relation: where $\rho(z)$ and $\rho(0)$ are air densities at levels z and y of the Earth's surface. The growth of hall to the size R \sim 2.4 cm \approx 10 - 20 m/sec occurs substantially above the level [₩]max at the beginning of the katabatic branch of hail 'max' trajectory. The time necessary for the growth of hailstones to the above dimensions depends chiefly on the value of [₩]max and varies within the interval of 20 - 70 min. The terminal dimensions of hailstones depend very little on the vertical thickness of the cloud, and are determined chiefly by the moisture content of the air masses entering the cloud, the height of the w_{max}, and also by zero isotherm, the value and the stability of the velocity gradient of the vertical streams along their height. Card 3/4

Theory of the formation of large ... S/169/62/000/008/052/090 E202/E192

Taking into consideration in the calculations the last mentioned, 'leads to a conclusion that the accumulation of large amounts of droplet water and hail takes place in the zone before the trp of the cloud, which explains the high intensity and short duretion of the showery precipitates and hail. The pressure of the large droplet fraction in the upper part of the cloud lowers the value of the anabatic velocity of the stream down to $v_{\rm Cr}$, and the corresponding quantity of water holding may be calculated from the formula:

 $q = \frac{m}{2gz} (w_{max}^2 - v_{cr}^2),$

where m - the mass of air in a unit volume. The action on the upper part of the growing heavy cumulus with $w_{max} > v_{cr}$, with

surface active or hygroscopic agents does not give a positive effect. Prevention or even weakening the effect of a hail is possible only by full crystallisation of the supercooled fraction of the liquid droplets entering the upper part of the cloud. 4-10 kg of reagent are required to destroy the hail centre. Card 4/4 [Abstractor's note: Complete translation.]

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"Some Lethols of Raising the Water Ingermathlity of Thin-Walled Ferroconcrete Structures." Cand Tech Sci, Chair of Construction Production, Leningrad Crier of Labor Led Banner Construction Engineering Last, Min Higher Education USD., Loningrat, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USDA Higher Educational SO: Sum. No 598, 29 Jul 55

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SOV/112-59-1-340 Experimental Construction of Watertight Heat-Pipeline Manholes in Leningrad hydroinsulation by using VRTs and VBTs cements; (4) finding methods that would protect a reinforced-concrete manhole from ground water. Additions tested in constructing experimental manholes are described. A vinyl plastic was tested as a hydroinsulating material. It is pointed out that using the above hydroinsulation methods reduces the cost of heat-pipeline manholes vs. borulininsulated types. Use of a better watertight concrete also tends to decrease construction costs. M.L.Z. Card 2/21910-171-24 1.2.3

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國防部內防告召和對注 PHILIP FARME KUZMIN, YE.D. Formula for calculating basic parameters of over-all construction processes carried out by assembly-line methods. Sbor.nauch.trud. TISI 1:52-60 '56. (MIRA 10:12) (Building) 1001010-065 STATES ALL DEPARTS

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TTHORS: Katuntsevskiy, O	. G.; Kuz'min, Ye	. D.		ex,
G: Odessa Civil Engineer	ing Institute (O	lesskiy inzhene	rno-stroitel'nyy	institut)
ITLE: Influence of the dutrength of sand concrete	uration of compre	ssion of cement	-sand mixtures of	1 the final
DURCE: ASIA UkrSSR. Inst aterialy, detali i izdelij	itut stroitel'nyk ya, no. 4, 1965.	h materialov i Betony (Concret	izdeliy. Stroite es), 82-86	l'nyye
OPIC TAGS: cement, concre	ete, pressure eff	ect		
BSTRACT: The effect of pro- the concrete was determined 400:sand and 1:2.5 = water ressure of 10 kg/cm ² for	1. The concrete r:cement. The sp various periods o	mixtures consid ecimens were co f time, and the is concluded th	ted of 1:3 = por mpressed with an compression str at precompression	tlend cement applied ength of the n of cement-
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UTHOR: Slashchin, M. S.; Kuz'ı	min, Ye. 1. 44	. 69	
TTLE: A laser gyroscope with	10		
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and all all and a share a shar			
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PHASE I BOOK EXPLOITATION SOV/6352 Akademiya nauk SSSR. Vychislitel'nyy tsentr Nomograficheskiy sbornik (Collected Papers on Nomography, no. 1.) Moscow, 1962. 248 p. 1800 copies printed. Resp. Ed.: 0. S. Khovanskiy, Candidate of Technical Sciences; I. A. Orlova; Tech. Ed.: A. I. Korkina. PURPOSE: This collection of papers is intended for those engaged in research on and design of nomographs: OOVERAOE: This collection contains 27 papers concerning various aspects of the theory, construction, and use of nomograms for the solution of algebraic, functional, transcendental, and differential equations. No personalities are mentioned. There are 122 references: 102 Soviet (1 of which is a translation from the English), 8 Gerem, 5 French, 2 English, 2 Spanish, 2 Rumanian, and 1 Usech. Card 1/10	•	Kuzmin, Ye. IV.	\$.		:	
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MUZ'MIN, Ye.5. Present-day tasks in the history of psychology. Vop.psikhol. 2 no.2:23-27 Mr-Ap '56. (MIRA 9:8) 1. tafedra psikhologii Leningradskogo gosudarstvennogo universiteta. (Psychology--History)

KUZ'MIN, Ye.S.

Some problems in the investigation of the problem of needs. Uch.sap.LGU no.287:74-85 '60. (MIRA 13:6) (Psychology)

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000928020 LYUBANSKIY, V.M., inzh.; KUZ MIN, Ye.T., inzh. Redesigning of the cooling system of an ejector. Energetik 10 no.3:16-17 Mr '62. (MIRA 15:2) (Ejector pumps---Cooling)



L 16518-65 ACCESSION NR. AP5000337 in a thin magnetic film a discrete spectrum of characteristic frequencies dependent on magnetoelastic interaction. The two spectra are not independent and mixed exchange-magnetoelastic oscillations can therefore he excited in the film. The positions of the resonance peaks of these oscillations depends both on the exchange interaction parameter and on the magnetoelastic interaction para-Spectrane thatte parts at Decayora £



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	ACC NR: AP6004456 SOURCE CODE: UR/0048/66/0:10/0012/0016
	AUTHOR: Ignatchenko, V.A.; Kuz'min, Ye.V.; Gorenko, L.M.
	ORG: Institute of Physics of the Siberian Section of the Academy of Sciences, SSSR (Institut fiziki Sibirskogo otdeleniya Akademii nauk SSSR)
	TITLE: Influence of damping on the magneto-elastic vibration spectrum of a thin magnetic film (Transactions of the Second All-Union Symposium on the Physics of Thin Ferromagnetic Films held at Irkutsk 10 July to 15 July 1000
-	Perromagnetic Films held at Irkutsk 10 July to 15 July, 1964
	SOURCE: AN SSSR. Izvestiya.Seriya fizicheskaya, v.30, no. 1, 1966, 12-16
÷.	TOPIC TAGS: ferromagnetic film, magnetic thin film, magnetodielectrics, magneto- striction, spin wave, resonance line, relaxation process,
	ABSTRACT: Two of the authors have previously calculated the discrete spectrum of the characteristic vibrations of a thin magnetic film due to exchange and magnetoelastic interactions (V.A. Ignatchenko and Ye.V. Kuz'min, Zh. eksperim. i teor. fiz., 47, 1814 (1964)). In the present paper the widths and amplitudes of the corresponding lines are calculated. Terms are adduced to describe the relaxation of the spin and phonon displacement under the influence of a high frequency external field in a thin uniaxial strictive properties. It is stated that this equation can be derived by the method $Card 1/2$
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TITLE: Magnetic and acoustic excitation of coupled magnetoelastic oscillations in a thin magnetic film SOURCE: Zhurnal eksperimental noy i teoreticheskoy firiki, v. 49, no. 3, 1965, 21, 44, 55 TOPIC TAGS: excited state, magnetic thin film, excitation spectrum, electric energy TOPIC TAGS: excited state, magnetic thin film, excitation spectrum, electric energy TOPIC TAGS: excited state, magnetic thin film, excitation spectrum, electric energy TOPIC TAGS: excited state, magnetic thin film, excitation spectrum, electric energy TOPIC TAGS: excited state, magnetic thin film, excitation spectrum, electric energy TOPIC TAGS: excited state, magnetic thin film, excitation spectrum, electric energy TOPIC TAGS: excited state, magnetic thin film, excitation spectrum, electric energy TOPIC TAGS: excited state, magnetic thin film, excitation spectrum, electric energy TOPIC TAGS: excited state, magnetic thin film, excitation spectrum, electric energy TOPIC TAGS: excited state, magnetic thin film, excitation spectrum, electric energy TOPIC TAGS: excited state, magnetic thin film supporting and the case of acoustic excitation. Linearized system of equations is written out for a magnetically uniaxial ferro- les and has the form of a thin film supporting uniform oscillations in the plane of the film. A general solution is obtained, from which equations are derived for the mplitudes of the spin waves in the case of magnetic excitation and for the amplitudes f the acoustic waves produced by acoustic excitation (complex amplitudes of the lastic components of magnetoelastic oscillations). This is followed by a study of		L 8812-66 EWT(1)/EMACC NR: AP5024700 AUTHOR: Ignatchenko, V	· A.; Kuz'min, Ye.	SOURCE CODE:	UR/0056/65/049/00	11	
Source: Zhurnal eksperimental noy i teoreticheskoy firiki, v. 49, no. 3, 1965, 787-796 TOPIC TAGS: excited state, magnetic thin film, excitation spectrum, electric energy ESTRACT: The purpose of the investigation was to calculate the amplitudes and ef- conversion DESTRACT: The purpose of the investigation was to calculate the amplitudes and ef- agnetic film, both in the case of magnetic and in the case of acoustic excitation. Liectric which is isotropic with respect to its elastic and magnetoelastic proper- ies and has the form of a thin film supporting uniform oscillations in the plane of mplitudes of the spin waves in the case of magnetic excitation and for the amplitudes f the acoustic waves produced by acoustic excitation (complex amplitudes of the lastic components of magnetoelastic oscillations). This is followed by a study of	SOURCE: Zhurnal eksperimental noy i teoreticheskoy firiki, v. 49, no. 3, 1965, 787-796 TOPIC TAGS: excited state, magnetic thin film, excitation spectrum, electric energy ABSTRACT: The purpose of the investigation was to calculate the amplitudes and ef- fective relaxation parameters line widths) of magnetoelastic oscillation in a thin magnetic film, both in the case of magnetic and in the case of accustic excitation. A linearized system of equations is written out for a magnetically uniaxial ferro- dielectric which is isotropic with respect to its elastic and magnetoelastic proper- ties and has the form of a thin film supporting uniform oscillations in the plane of amplitudes of the spin waves in the case of magnetic excitation and for the amplitudes of the acoustic waves produced by acoustic excitation (complex amplitudes of the elastic components of magnetoelastic oscillations). This is followed by a study of	-		DODU		1	
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the magnetic components of magnetoelastic oscillations under acoustic excitation and the elastic components of magnetoelastic oscillations under magnetic excitation. The relaxation characteristics of the magnetoelastic oscillations are also considered. For both magnetic and acoustic excitation, it is shown that a discrete spectrum of resonance peaks and coupled magnetoelastic oscillations, determined by exchange of magnetoelastic interactions, should be observed in a thin magnetic film. In the case of acoustic excitation, in contrast to excitation by a uniform microwave magnetic field, even modes are also excited, thus doubling the number of resonance peaks. The distributions of the peaks are discussed, together with the optimal conditions for the most effective use of a thin magnetic film as an element for mutual conversion of microwave oscillations of different types. Orig. art. has: 4 figures and 39 formulas.

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ORG: fizik:	Institute of Physics, Siberian Section, Academy of Sciences, SSSR (Ins Sibirskogo otdeleniya Akademii nauk SSSR)	
TITLE: ence	Spin-wave resonance in thin Fe-Ni-Co alloy films /Report, All-Union on the Physics of Forro- and Antiferromagnetism held 2-7 July 1965 in t	Confer- Sverdlovs
• • • •	: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 6, 1966, 1009-	11
rCPIC cobal	TAGS: spin wave, spin wave spectrum, nickel base alloy, iron contain containing alloy, magnetic thin film	ing alloy
1800 . subst which reson spect was i	CT: The authors have investigated spin-wave resonance at 9.1 kMHz in a thick films of $17Fe-SONi=2CO$ alloy, vacuum deposited at 10^{-5} mm Hg of rates heated to 200° C. The specimens were mounted in a rectangular c was excited in the H_{120} mode and had a loaded Q factor of about 1500. Ince absorption measurements with the films in different orientations to the constant magnetic field it was found that the effective magnet independent of the film thickness and equal to 9900/4 π G. Spin-wave re- observed only in the thickest (~ 1800 Å) films when the external field cular to the film. The data were satisfactorily described by the theo	avity From with re- izatiQn sonances d was por

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GEL'FAND, I.M. (Moskva); DYUDENI, N.Ye. (SShA); KIRILLOV, A.A. (Moskva);
PODSYPANIN, V. (Tula); TER-MKRTACHAN, M. (Yerevan); KUZ'MIN, Yu.I. (Moskva); VEYL', G. (SShA); FADDEYEV, D.K. (Leningrad); ARNOL'D, V.I. (Moskva); IVANOV, V.F. (San-Karlos, Kaliforniya, SShA);
GRAYEV, M.I. (Moskva); LEBEDEV, N.A. (Leningrad); LOPSHITS, A.M. (Moskva); ZHITOMIRSKIY, Ya.I.; MITYAGIN, B.S. (Moskva); SKOPETS, Z.A. (Yaroslavl'); PUANKARE, A. (Frantsiya); GAVEL, V.V. (Brno, Chekhoslovakiya); SOLOMYAK, M.Z. (Leningrad); LEVIN, V.I. (Moskva); BARBAN, M.B. (Tashkent); FRIDMAN, L.M. (Tula)

Problems. Mat. pros. no.5:253-260 '60. (MIRA 13:12) (Mathematics--Problems, exercises, etc.)

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UTHOR: Andreyev, A. P.; Brodovoy,	V. V.: Gol'dshmidt.	V. I.: Kuzimin, Yu. I.:	
orozov, M. D.; Eydlin, R. A.			1
RG: Kazakh Geological Trust (Kaza	khskiy geologicheskiy	y trest)	
ITLE: Deep tectonic@regionalization	on of kazakhstan on t	the basis of	
eophysical data			l'
OURCE: Sovetskaya geologiya, no. (5, 1966, 34-47		· ·
OPIC TAGS: tectonics, earth crust	Kazakhstan	_ · ·	
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haracteristics of the deep structu			
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		AUTHOR: Bachin, A. P.; Bekzhanov, G. R.; Klenchin, I. N.; Kolucerta	
	- b j	AUTHOR: Bachin, A. P.; Bekzhanov, G. R.; Brodovoy, V. V.; Gol'dammiut, AUTHOR: Bachin, A. P.; Bekzhanov, G. R.; Brodovoy, V. V.; Gol'dammiut, Zhivoderov, A. B.; Zlavdinov, L. Z.; Ivanov, O. D.; Klenchin, I. N.; Kolmogoroy, Zhivoderov, A. B.; Zlavdinov, L. Z.; Ivanov, O. D.; Klenchin, N. Ya.; Zhivoderov, A. B.; Zlavdinov, L. Z.; Ivanov, O. D.; Klenchin, I. N.; Kolmogoroy, Yu. A. Kotlyarov, V. M.; Kuz'min, Yu. L.; Kuminova, M. V.; Kunin, N. Ya.; Yu. A. Kotlyarov, V. M.; Kuz'min, Yu. L.; Kuminova, M. D.; Tret'yakov, V. G.; Tychkova, Lyubetskiy, V. G.; Melent'yev, M. I.; Morezov, M. D.; Tret'yakov, V. G.; Tychkova, Zhivoderov, A. B.; Zlavdinov, R. A.	-
	1	Yu. A., Kotlyarov, V. M.; Kuz min. Lu Horezov, M. D.; Tret yakov, V.	
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		that akotch map of Kazakhstan	
		TITLE: Geophysical sketch map of Kazakhstan	
	ł	(coological Congress. 22d, ite applied geophysics); doklady	
	1	TITLE: Geophysical sketch map of Kazakin cun SOURCE: International Geological Congress. 22d, New Delhi, 1964, Geologicheskiye source: International Geological Congress. 22d, New Delhi, 1964, Geologicheskiye source: International Geological Congress. 22d, New Delhi, 1965, 142-154	
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		TOPIC TAGS: Kamildintan geophysical, map, <u>peophysical mapping</u> , tectonics regional timestigations tion. regional study	
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	1	ABSTRACT: On the basis of regional geophysical and geological investigations (seismic, gravimetric, magnetoelectric), a composite geophysical sketch map of the (seismic, gravimetric, magnetoelectric), a compled. From this map, the major tectonic (seismic, fields of Kazakhstan has been compiled. From this map, the major tectonic	-
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KUZHIN, Yu. I.

"Mobile Palatography as a Tool for Acoustic Study of Speech Sounds."

report submitted for the 4th Intl. Congress of Acoustics, Copenhagen, Denmark, 21-28 Aug 1962.

Pavlov Inst. of Physiology, Leningred USSR

 ACC NR: AR6032146 SOURCE CODE: UR/0109/00/000/00/00/00/00/00/00/00/00/00/00/	
 TITLE: Abyssal tectonic zoning of the territory of Kazakhstan according to geophysical data	
SOURCE: Ref. zh. Geofizika, Abs. 6G32	
 REF SOURCE: Sb. Geofiz. issled. v Kazakhstane. Alma-Ata, Kazakhstan, 1965, 9-27	
TOPIC TAGS: geophysics, geology, geographic location, tectonics, earth crust	
ABSTRACT: A description is given of the sequential development of the geological interpretation of geophysical data, from factual material to maps of the abyssal structure of the earth's crust and the typification of its individual blocks, the quantitative characteristics of the abyssal fractures, and the development of a system of geotectonic zoning. It is shown that the Moho discontinuity (M) was built according to graphoanalytic correlation dependencies between zonal anomalies and the delineation of the M boundary, and studied according to deep seismic	
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sounding and deep seismic profiling. An isodepth system of the "basalt" and "diorite" surface layers was built. Knowledge of the delineation of the M surface makes it possible to construct systems of isopachous lines of the "basalt" layer. A simultaneous analysis of the Moho and Conrad discontinuities provides data for the definition of the structure of the earth's crust in various regions. The coefficient of basalt saturation (K_{\bullet}) , equal to the relation between the thickness of the "basalt" layer and the general thickness of the earth's crust, is used to define individual blocks. Earth-crust blocks of similar structure are defined by similar coefficient values (0.77 and 0.67 for the Akbastau and Kokchetav massifs, respectively, 0.38 for the Russian platform, etc.) The simultaneous analysis of the definition of the core of interfaces makes it possible to suppose that zonal anomalies can be caused by a possible heterogeneity in the density of the mantle. Maps of anomalous magnetic fields, gamma fields, etc., and geological information are brought out to study the structure of the "granite" layer aside from the gravitation field. The authors synthesize the data obtained and work out regional tectonic delimitations of areas of intrusive magnetism, abyssal fractures, deepseated faults, preorogenic synclinales, foredeeps, intermountain depressions, superimposed troughs, etc. The deep faults are divided into 4 groups: those reflected in the M surface; those not reflected in it, but controlled by ultrabasite belts; those manifested in the "basalt" layer; and those dying out in the "granite"

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and "diorite" layers. The structure of the basic geotectonic blocks of the Kazakhstan-Caspian tectonic syncline, group of ancient rigid folding structures, including the Kokchetav, Balkhash, Akbastau, Slavgorod, and Aral blocks, and areas of Caledonian and Hercynian folding. It is shown that the faults of the first group are concentrated mainly in eastern Kazakhstan; the displacement of blocks contacting under it reaches 5—7 km, while the extension reaches 500—1000 km. The faults of the second group are oriented mainly in the north-east and meridional directions. They are widespread, as are those of the third and fourth groups. The complex tectonic-formation block structure of Kazakhstan is caused by the coincidence of the main abyssal faults. The bibliography contains 28 entries. G. Reysner. [Translation of abstract]

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Card 3/3

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000928 CIA-RDP86-00513R000928020

	•	S/245/62/000/006/003/006 D222/D307		•
	AUTHORS:	Chistovich, L. A., Klaas, Yu. A. and Kuz'min, Yu. I.		
	TITLE :	Continuous recognition of speech		
	PERIODICAL:	Voprosy psikhologii, no. 6, 1962, 27-39		
	and alphabet: vious work by investigate of consonants and literal into an inter corded by mea Shuplyakov (V tested were transcription corded. It wa	is a report of experiments on the rapid reproduction ic transcription of consonants, a continuation of pre- y the senior authors. The purpose of this work was to the articulation dynamics in the running reproduction s, and to find the relationship between reproduction transcription. Nonsense syllables of the vowel-conso- nd consonant-vowel type were read by an experimenter rcom system and the articulation movements were re- ans of a special apparatus developed by Kuz'min and Voprosy psikhologii, no. 1, 1963). The two subjects required to give a running reproduction or a literal n of the syllables, while the same parameters were re- as found that 100 - 150 msec after the transition from	- -	
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Continuous recognition of speech

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vowel to consonant in the speech signal the articulation apparatus of the subject takes up a nondifferentiated 'consonant state' which does not coincide with any consonant of the given language. As new information is received this state is progressively modified towards the specific consonant perceived. This supports the view that the articulation during fast reproduction reflects the discrimination processes whereby the running synthesis of the articulation image is achieved. This is contrasted with the view which holds that the process is based on the identification of phonemes. The experiments with literal transcription also show that the selection of letters os not based on the acoustic information as such, but on the final state of the articulatory motor image reached during the running synthesis of the consonant. All this supports the theory that speech sound discrimination is based on the recoding of acoustic information into an articulatory image. There are $1\overline{1}$ figures. ASSOCIATION: Institut fiziologii im. I. P. Pavlova, AN SSSR, Leningrad (Physiological Institute im. I. P. Pavlov,

Card 2/2

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AS USSR, Leningrad)

CIA-RDP86-00513R000928020(





KUZ'MIN, Yu.I. Dynamic palatography. Vop. psikhol. 9 no.1:137-141 Ja-F '63. (MIRA 16:4) 1. Institut fiziologii imeni I.P.Pavlova, Leningrad. (Phonetics---Research) 50



<u>14302-66</u> RD CC NR: AT6003892	SOURCE CODE: UR/28	365/65/004/000/0560/0572
THOR: Kuzimin, Yu. I.		BL
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TIE: Electrical method of re ponsonants	cording tongue movements duri	ing the articulation of
DURCE: AN SSSR. Otdeleniye b 4, 1965, 560-572	viologicheskikh nauk. Problem	ny kosmicheskoy biologii.
OPIC TAGS: man machine commu ication, acoustic theory		
Acoustic analy	ic scheme for automatic enc rmation on the temporal stru sis is too beset with difficult f articulatory movements ap	ies to be useful for
classical palatograph of t	aphy was therefore sought w he phoneticians) would perm id which (unlike Stetson's ru cture not only of the duration	bber bulb palatogram)
location, of tongue-palate	e contacts.	and a second
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L 14302-66 AT6003892 ACC NRI ð A sensor, consisting of a prosthetically fitted artificial palate with imbedded electrodes, was devised for this purpose (see Fig. 1 in "Research Toward Man-Machine Speech Communication," p. 114 of this special issue). Palatograms showing tongue contact at different points of the hard palate are recorded on a multichannel recorder together with a laryngogram trace and a time mark. Objective data are thus obtained for studying the temporal structure and physical articulation of consonants in various phonetic environments (alone and in combination with other elements in initial, medial, and final position). Fig. 1 shows typical palatograms obtained by this method. The amount and nature of these data require computer processing. System noise levels and signal strength required to obtain data which would yield sufficiently reliable results when processed by computer had to be established, and the limits of variation of the same speech signal when produced by different speakers determined. It was found that not only the shape, size, and location of tonguepalate contacts, but also their relationship to each other in time during the production of a given consonant, were essential elements of the distinctive and unambiguous palatographic "signature" of that sound. Static (classical) palatography superimposes all later steps in the pronunciation Card 3/4