	1 UPSTR 5 DV TMICEL CALLA CHACA	8525714
3	ACC NRI AT6030384 (N) SOURCE CODE: UR/0000/66/000/00083/0000	
: - -	AUTHOR: Balakin, V. A. 28	
•	ORG: none	
	TITIE: Special characteristics of friction and wear of materials at high sliding velocities	
	SOURCE: AN SSSR. Nauchnyy sovet po treniyu i smazochnym materialam. Novoye v teorii treniya (Recent developments in the theory of friction). Moscow, Izd-vo Nauka, 1966,	
	83-90	
	TOPIC TAGS: The coefficient of friction depends on the following factors: the material and the state of the contact surfaces; the construction of the friction joint or unit; and the operating conditions (the sliding velocity V; the specific lead F_{gp} ; the temperature θ ; and the temperature gradient $\partial \theta / \partial z$ in the contact zone). The article considers the motion of a real point M of mass m, which is subjected to the action of a constant vertical load $P = \text{const}$ over an absolutely rigid wavy sinusoidal action of a constant vertical load $P = \text{const}$ over the particular applitude	
	action of a constant vertical load P = censt over an absolute P and P = censt over an absolute P action of a constant vertical load P = censt over an absolute P action of the amplitude surface, for which the linear dimension P is a $(l > 200a)$; this is valid for a real body for which the linear dimension P is ubstantially loss than the wavelength $(L < (L/5))$. On the above basis, the author develops mathematically four possible cases. It is demonstrated that in determination of the friction coefficient and the wear of materials at high sliding velocities, it	
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	ACC NR. AT6030384	
	is necessary to take into account unsteady state friction processes caused by the presence of factors such as undulations and variations in form. The author expresses his gratitude to his scientific supervisor Professor I. V. Kragel'skiy for assistance given in setting up and conducting this investigation and for discussing the results. Orig. art. has: 26 formulas and 8 figures.	
	SUB CODE: 11/ SUEM DATE: 22Feb66	
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É	Card 2/2 eqle]
<u> </u>		•

16(1) 507/41-11-2-10/17 Balakin, Y.B. AUTHOR Two-Sided Approximation of the Solution of the Equation TITLE: $\mathbf{v}^{(n)} = \mathbf{f}(\mathbf{x}, \mathbf{y})$ PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 2, pp 203-207 (USSR) The author uses the method of differential inequations of ABSTRACT: Chaplygin Ref 1 for the solution of $\mathbf{y}^{(n)} = \mathbf{f}(\mathbf{x}, \mathbf{y}) = 0$ $y(x_0) = y_0, y'(x_0) = y_0, \dots, y^{(n-1)}(x_0) = y_0^{(n-1)}.$ Let the function f(x,y) be continuous on $[x_0,x_1]$ in x and let it satisfy in y the Lipschitz condition with the constant L. Let $z_0^{(n)} - f(x, z_0) = v_0(x) > 0$, then $z_0 > y$ on $[x_0, x_1]$. For $a(x) = z_0 - y$ we have the equation $a^{(n)} - f(x,s_n) + f(x,y) = v_0(x)$ (4)with the initial conditions $a(x_0) = 0$, $a'(x_0) = 0,...,a^{(n-1)}(x_0)=0$. Card 1/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000

Two-Sided Approximation of the Solution of the SOV/41-11-2-10/17 Equation $y^{(n)} = f(x,y)$

Instead of (4) the author considers

(5) $a_0^{(n)} + La_0 - v_0(x)$,

where L is the Lipschitz constant of f(x,y). We have

 $a_o(x) = \int_{x_o}^{x} P(x-t)v_o(t)dt$

where P(x-t) is a certain combination of exponential functions. Replacing in (4) a(x) by the solution of (5), then $a^{(n)} = f(x,y+a_0)+f(x,y)+La_0-La_0-v_0-v_0(x)=-f(x,y+a_0)+f(x,y)-La_0-u_0$ and herefrom $a_0 \le a$. Consequently $z_1=z_0-a_0$ is an improved upper function in the sense of Chaplygin and it may serve as an initial function for the next approximation. It is shown that the

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APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-

Two-Sided Approximation of the Solution of the SOV/41-11-2-10/17

Equation y(n) f(x,y)

sequence of the approximations obtained in this way converges uniformly to the solution. Then the construction of the lower approximations is carried out. An example is calculated. The author mentions K.V.Zadiraka.

There are 3 Soviet references.

SUBMITTED: June 23, 1958

Card 3/3

e e e e e e e e e e e e e e e e e e e		1,1562 8/208/62/002/005/00 B112/B102	8/009
IC-6560 AUTHOR:	Balakin, V. B. (Moscow)		
TITLE	A numerical solution a sthod of systems		
PERIODICAL:	Zhurnal vychislitel'noy matema v. 2, no. 5, 1962, 925-930	tiki i matematiohesko	y fiziki, <i>Y</i>
TEXT: The s	olution of the boundary value pr	oblem	J
,		(4)	
ia reduced t	$ \oint u dx - \varphi(u) dt = 0 $ $ u(x,0) = u_0(x) $ o determining the level lines o	(2) f the potential	•
	$\phi(x,t) = \int u(s,t)ds$		
by means of Card 1/2	a system of ordinary differenti x' = f(u)	al equations (7)	
			,

S/208/62/002/005/008/009 B112/B102

A numerical solution method of ...

 $u(\xi,\tau) = u_0(x(0,\xi,\tau))x_{\xi}(0,\xi,\tau). \tag{5}$ The trajectories $x = x(t,\xi,\tau)$ are constructed approximately and the values of u(x,t) are computed numerically along them. No theoretical foundation of the method is given but numerical results show its applicability. There is 1 figure.

March 3, 1962 SUBMITTED:

Card 2/2

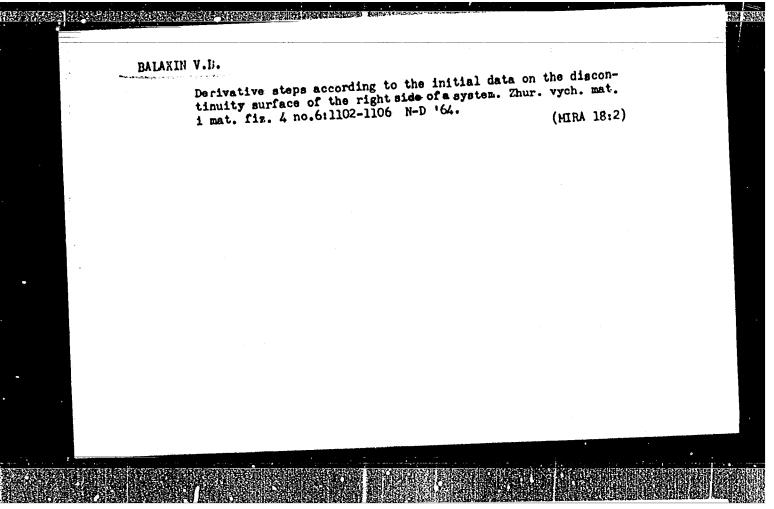
CIA-RDP86-00513R000103 APPROVED FOR RELEASE: Wednesday, June 21, 2000

BALAMIN, V.B. (Moskva)

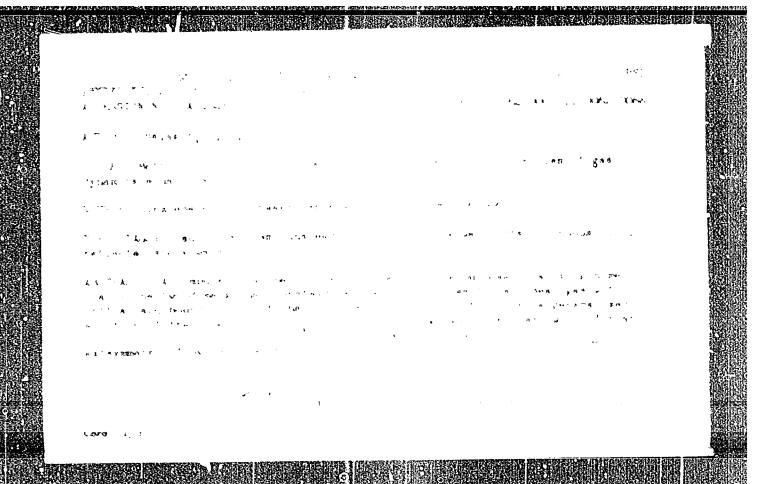
Stability of "oblique" difference systems. Zhur.vyoh.mat.1 mat.
fis. 3 no.2:381-385 Mr.Ap 163. (MIRA 16:4)

(Difference equations)

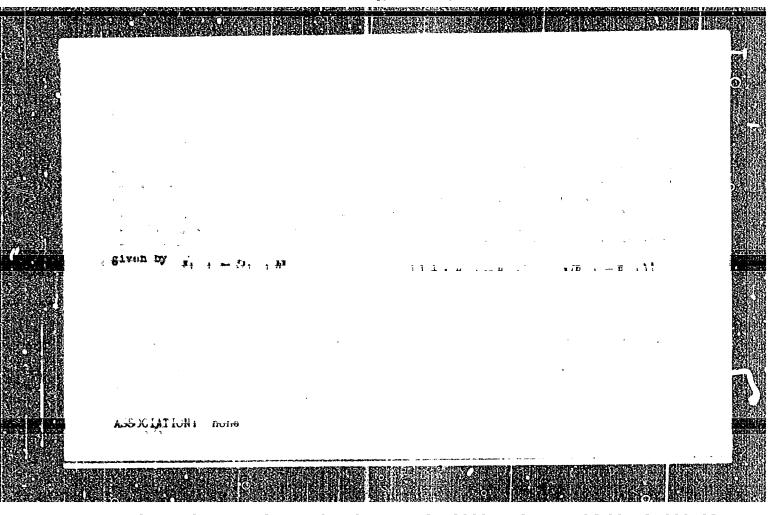
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paravir, 4. ... PUBASITU ISLANO IBLIOTAPHICAL PERDET PHASE I Call No.: AF641156 B.JK

Authors: DAMILOV, F. A., GLTYGERG, A. Z., BALAKTE, V. G.

Full Title: HOT POLITING OF STEEL PIPES

Transliterated Title: Proizvodstvo stellnykh trub goryachey proketkoy PUBLISHING DATA

Originating Agency: None

Publishing House: State Scientific and Technical Publishing House of Literature on Fermous and Nonferrous Metallurgy (Metallurgizdat)

No. of conice: 3,500 Date: 1954 No. no.: 615

Editorial Steff

Engineers Osedchiv, Ya. P., Kostin, V. I., Oslov, N. L., Kalashnikov, I. P. and Yazhenin, L. I., Tichnician

PUPPIST: The book is intended for engineers and technicians in metallurgical plants and else for students studying pipe manufacture.

wand JYwy

Coverage: This work describes in detail the technological processes of seemless-ribbe manufacturing from car on, alloy, and high-alloy steels, by means of every modern method of hot rolling. Basic problems of the theory of rire rolling are exemined. The authors discuss at length the methods of compiling the tr les of rolling operations, the edjusting of mills, and the arroave designing of rolls. Special attention is given to automatic mills. A serarate chapter

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AID 483-I

Proizvodstvo stal'nykh trub goryachey prokatkoy

AID 483 - I

describes the manufacturing technique of some special types of pipes. The book deals also with problems of the efficiency of the equipment, taking into consideration recent Soviet achievements in this field. The book contains illustrations, tables and diagrams.

No. of References: Total ho, h5 Russian (1932-1951)

Facilities: Prof. P. T. Yemel'yanenko, Corr, Mem., Acad of Sci., USSR; Prof. A. I. Tselikov, Corr. Mem., Acad of Sci., USSR; Prof. V. S. Smirnov, Doc. of Tech. Sci.; Kand. of Tech. Sci. I. A. Fomichev, S. I. Borisov, A. A. Shevchenko, Yu. M. Matveyev, P. K. Teterin, O. A. Plyatskovskiy and V. V. Shveykin. (Theory of rolling). Industrial Engineers M. I. Matveyev, I. V. Dubrovskiy, A. M. Zvyagintsev, N. M.Kolpovskiy, Z. A. Sominskiy; Skilled workmen and foremen I. S. Kutsenko, S. G. Koptelyy, V. A. Vanzha, N. A. Zhukov, I. I. Chursinov.

/2/2

BHLAKIN, V.G.

PHASE I BOOK EXPLOITATION

80V/6019

- Danilov, Fedor Aleksandrovich, Anatoliy Zinov'yevich Gleyberg, and Valeriy Georgiyevich Balakin
- Goryachaya prokatka trub (Hot Rolling of Tubes) 2d ed., rev. and enl. Moscow, Netallurgizdat, 1962. 591 p. 3400 copies printed
- Ed.: Yu. F. Shevakin; Ed. of Publishing House: Yu. V. Vladimirov; Tech. Ed.: A. I. Karasev.
- PURPOSE: This book is intended for engineering personnel in the tube manufacturing industry, and designers working on the development of the technology and equipment for the hot rolling of tubes. It may also be useful to students specializing in tube rolling at schools of higher and secondary education.
- COVERAGE: The book reviews the manufacturing processes and equipment most widely used for the hot rolling of seamless tubes. Basic problems of the tube-rolling theory are reviewed, and the procedures for working out rolling charts, setting up mills,

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Hot Rolling of Tubes

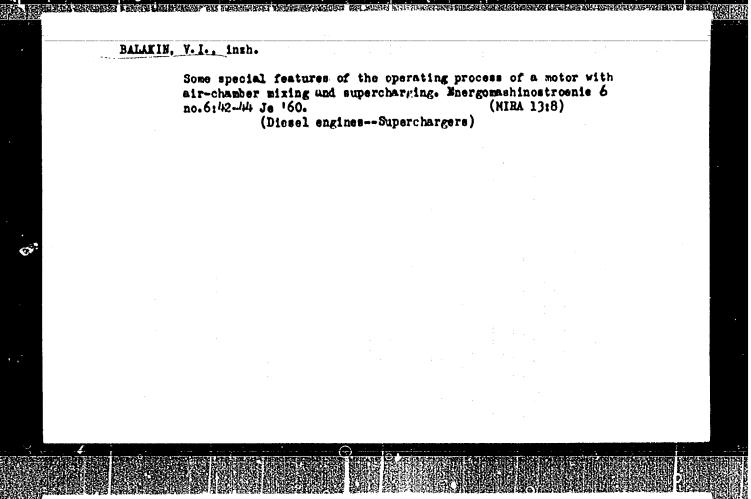
sov/6019

and designing rolling tools are discussed in detail. Information on the manufacturing of tube-rolling tools is given. Problems connected with the automation of equipment and the output of mills are reviewed. The book also presents an analysis of experience gained in the hot rolling of seamless tubes in Soviet and non-Soviet countries during the last few years. No personalities are mentioned. There are 74 references, all Soviet.

TABLE OF CONTENTS:

Foreword	3
Ch. I. General Problems of Tube Manufacture 1. Purpose of tubes and their specifications 2. Metal used for tubes 3. Cutting and centering of billets 4. Heating of metal and the heating furnaces	5 5 11 17 22
Ch. II. Blements of the Theory of Tube Rolling Card 2/6	40

APPROVED FOR RELEASE: Wednesday, June 21, 2000



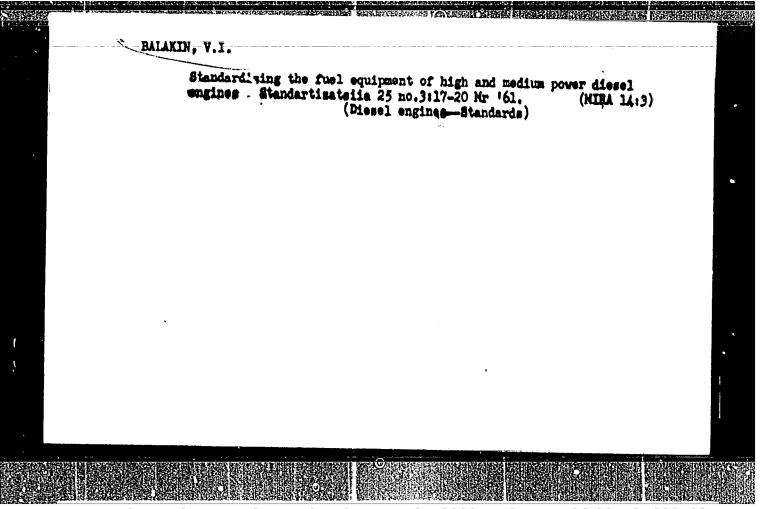
GAL'PEROVICH, Leonid Grigor'yevich; DAVYDOV, G.A., kand. tekhn. nauk, retsenzent; BALAKIN, V.I., inzh., retsenzent; KAMKIN, S.V., nauchnyy rod.; NIKITINA, R.D., red.; KOROVENKO, Yu.N., tekhn. red.

[Fuel injection systems for marine diesel engines; design] Sistemy vypuska topliva sudovykh dizelei; proektirovanie, konstruktsii. Leningrad, Gos. soiuzioe izd-vo sudostroit. promyshl., 1961. 221 p.

(MIRA 14:12)

(Fuel pumps) (Marine diesel engines-Fuel systems)

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BALAKIN, V. I., CAND TECH SCI, "HAVESTICATION OF THE PARTI
CHARGE OF THE OPERATING PROCESS OF A FOUR-CYCLE ENGINE) EQUIP
PED WITH AIR CHAMBER CARBURETION SUPERCHARGING." LENIN
GRAD, 1961. (LENINGRAD INST OF WATER TRANSPORT). (KL-DV,

11-61, 217).

-117-

ACCESSION NR: AP4020101

8/0125/64/000/003/0034/0036

AUTHOR: Khrenov, K. K. (Corresponding member); Balakin, V. I. (Engineer)

TITLE: Dilatometric investigation of aluminum, copper, and titanium butt joints made by cold welding

SOURCE: Avtomaticheskaya svarka, no. 3, 1964, 34-36

TOPIC TAGS: welding, cold welding, aluminum cold welding, copper cold welding, titanium cold welding, butt cold welding

ABSTRACT: An experimental investigation of linear-expansion coefficients of Al and Cu 10-mm² electric-conductor wires and 3-mm-diameter VTl commercially pure titanium wire is reported. Cold welding was performed with 1, 2, and 3 upsettings with a stroke equal to the wire diameter. Dilatometric curves were obtained on a differential optical dilatometer, and the linear-expansion coefficients were determined from the curves for 100-400C (Al) and 100-500C (Cu

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

ACCESSION NR: AP4020101

and Ti) ranges; at 400C, the coefficient for Al was determined as 30 x 10 per 1C. It was found that, within the recrystallization temperature range, the linear-expansion coefficient of wire joints is somewhat lower than that of solid wire. The linear expansion of cold-welded joints was found to be dependent on the processes transpiring in the deformed metal during subsequent heating. It is also inferred that a variation of interatomic bonds in cold-welded joints does not necessarily take place. Orig., art. has: 2 figures.

ASSOCIATION: Institut elektrosvarki im. Ye. O. Patona AN UkrSSR (Institute of Electric Welding, AN UkrSSR); Kiyevskiy institut grashdanskogo vozdushnogo flota (Kiev Institute of Civil Aviation)

SUBMITTED: 03Jul63

DATE ACQ: 31Mar64

ENCL: 00

SUB CODE: ML

NO REF SOY: 006

OTHER: 001

Cord 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

ACCESSION NR: AP4009284 8

8/0125/64/000/001/0039/0042

AUTHOR: Balakin, V. I.; Gurskiy, P. I.

TITLE: Investigation of the strength of aluminum cold-welded joints

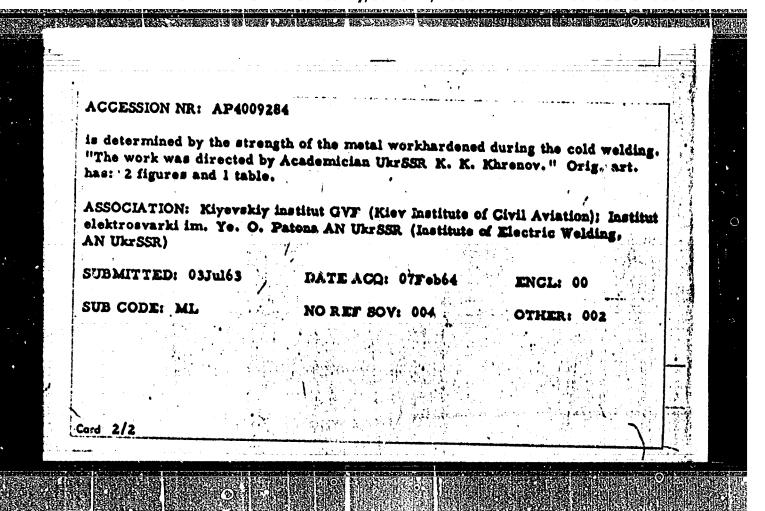
SOURCE: Avtomaticheskaya svarka, no. 1, 1964, 39-42

TOPIC TAGS: cold welding, aluminum cold welding, cold welded joint, aluminum cold welded joint, aluminum cold welded joint strength

ABSTRACT: An experimental study of the strength of cold spot welds of 1-, 1.5-, 2-, and 3-mm-thick ADIM aluminum made by a punch with a projecting working part of 2-, 3-, 5-, and 8-mm diameter is reported. It was found that: (1) The strength of single-spot welds is proportional to the perimeter of the weld spot; the joint breaks along the perimeter if the shear area is smaller than the weld-spot area; (2) With deformations of 80% or more, the spot strength is largely determined by the strength of the peripheral sone; (3) The weld strength

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

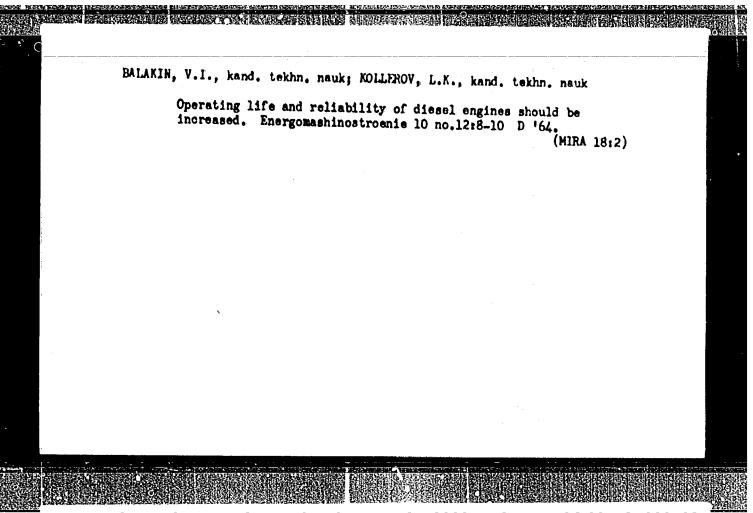


MHRENOV, K.K. [Khrienov, K.K.], akademik; BALAKIN, V.I.

Role of texturation in the cold welding of metals. Dop.
AN UNSR no.811075-1076 '64. (MIRA 17:8)

1. Institut elektrosvarki AN UkrSSR. 2. AN UkrSSR (for Khrenov).

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103

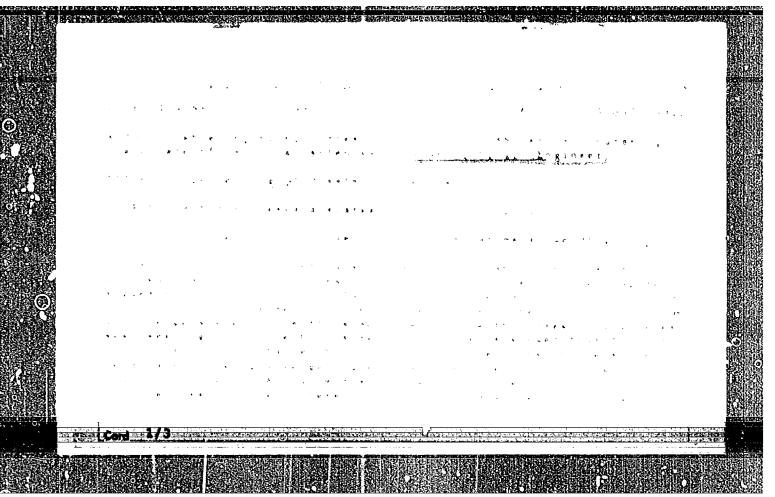


FAYNLEYB, B.N.; GOLUBKOV, I.G.; KOCHEV, L.A.; BALAKIN, V.I., kard. tekhn. nauk, retsenzent; TUKHSHNAYD, A.M., inzh. red.

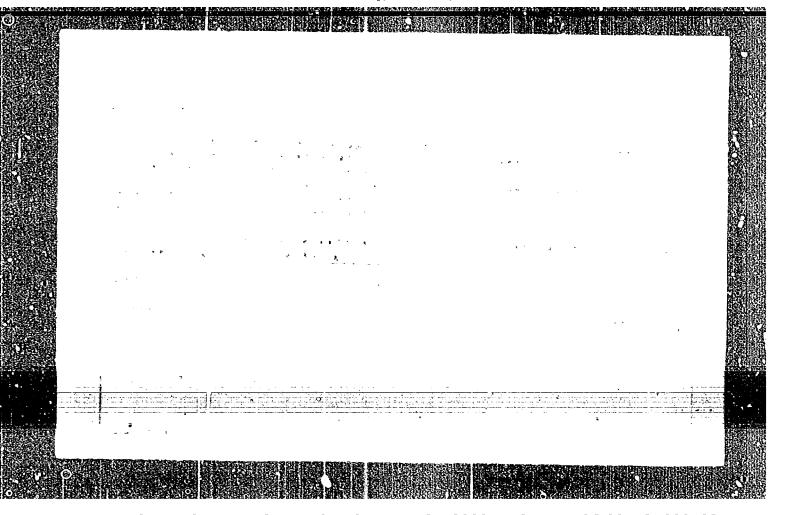
[Methods for testing and investigating the fuel systems of motor-vehicle and tractor diesel engines] Metody ispytanii i isaledovanii toplivnoi apparatury avtotraktornykh dizelei. Moskva, Mashinostroenie, 1965. 174 p.

(MIRA 1819)

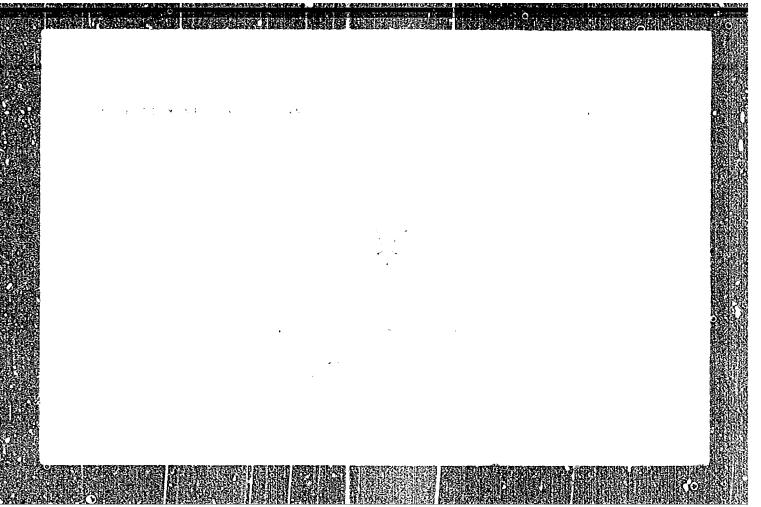
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BALAKIN, V.I., red.; IVANCHENKO, N.N., red.; KOLLEROV, L.K., red.; LEVIN, M.I., red.; NIKITIN, M.D., red.

[Internal combustion engines; collection of papers dedicated to the memory of Professor Liudvig Karlovich Martens, Doctor of Technology] Dvigateli vnutrennego sgoraniia; sbornik rabot posviashchennyi pamiati doktora tekhnicheskikh nauk, professora Liudviga Karlovicha Martensa. Moskva, Mashinostroenie, 1965. 454 p. (MIRA 18:4)

TO THE REAL PROPERTY OF THE PR 2196 -66 EMT(m)/EMT(v)/I/MP(t)/EMP(k), CMA. SOURCE CODE: UR/0125/66/000/002/0007/0009 ACC NR AP6007916 AUTHOR: Balakin, V. I.; Khrenov, K. K. ORG: Institute of Electric Welding im. Ye. O. Paton, AN UkrSSR (Institut elektro-BUATKS AN UKISSR) TITLE: The role of the vacuum in cold welding SOURCE: Avtomaticheskaya avarka, no. 2, 1966, 7-9 TOPIC TAGS: cold welding, vacuum welding, gas adsorption, molecule ABSTRACT: A new theory is offered by the authors, namely, that the principal difficulties in cold welding (extensive deformations, high unit pressures greatly exceeding the ultimate strength of the metal and considerable expenditure of energy) stem from the film of adsorbed games at the metal surface. The old theory claiming that these difficulties are due to surface contamination by oxide and grease films is shown to be unfounded, since the removal of these fikms is a comparatively easy operation that does not make cold welding any easier thereby. Thus the conclusion is that the culprit is precisely the film of adsorbed gases which is normally ignored. This film is extremely difficult to eliminate, because it is almost instantaneously restored in air 621,791,1:533,5 Cord

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-

21966-66 ACC NR. AF6007916 or in any other gaseous atmosphere. Besides, recent experiments (ff. H. L. Golego. Avtomaticheskaya svarka, no. 3, 1965) have demonstrated that metals with a surface free of an adsorbed film of gases, when present in a bigh vacuum of 10-9-10-10 mm Hg, get bonded together sufficiently strongly at a pressure of only 1 g/mm2 as compared with the tremendous pressures required in cold welding under normal conditions. The explanation for this phenomenon is that the surface atoms of metal have unsaturated outside bonds. A layer in which operate considerable forces of attraction, capturing any molecule, forms at the surface. Thus there primarily forms an extremely strong monomolecular layer in which the molecules of gas are pressed against the metal under a pressure of hundreds or even thousands of atmospheres; this layer forms almost instantaneously within 10^{-8} - 10^{-9} seconds after any cleaning of the surface and it simply cannot be eliminated by any method of cleaning metals in air. Cleaning in a vacuum of not less than 10-7-10-9 mm Mg, on the other hand, is effective and it is definitely worthwhile considering that then the quality of cold welding can be greatly improved and the required deformations and unit pressures drastically reduced. This can be accomplished on an industrial scale and hence the necessary if intricate apparatus should begin to be developed. Cold welding in the vacuum of outer space is another eventual possibility. SUEM DATE: 1 SMay65/ ORIG REF: 001/ SUB CODE: Vacuum diffusion bonding

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-R

L 38724-66 ENT (m)/T DJ/WE ACC NR AP6014150 (AN)

SOURCE CODE: UR/0114/65/000/012/0001/0003

AUTHOR: Balakin. V. I. (Candidate of technical sciences); Kollerov, L. K. (Candidate of technical scinence)

ORG: None

TITLE: Improving the quality of diesels

SOURCE: Energomashinostroyeniye, no. 12, 1965, 1-3

TOPIC TAGS: diesel engine, diesel fuel, quality control, automation, automation equipment, eswitation, component life expectancy, fuel consumption

ABSTRACT: The authors discuss the necessity for systematic improvement in production quality of diesel units. Diesels are the most important source of power in the Soviet Union since they produce more than 50% of the entire power output. The problems of increasing the quality and production of diesels are discussed: increasing the service life of diesels by a factor of 2-3 before overhauling and major repairs; improving the quality of engine assembly apparatus, electric units and means of automation; organizing the production of steel and other materials with higher quality indices; improving parts production; increasing the number of machine tools in use and constructing new specialized machine tools and other technical equipment. The problems associated with improving the quality of diesels were discussed at the Conference on

Card 1/2

UDC: 621.436(047.1)

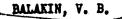
APPROVED FOR RELEASE: Wednesday, June 21, 2000

THE PARTY OF THE P

L 38724-66 ACC NR. AP6014150 Diesel Building held in Leningrad May, 1965. Diesel plant workers, scientific research institutes, departments of internal combustion engines of universities and government committees, ministries and others were present. The Conference listened to the report of the Central Scientific Research Diesel Institute on the results of the plan for 1964 and measures for its fulfillment in 1965, and the plan for 1966 including the technical level of domestic diesels. Chief engineers of diesel building plants, L. V. Markin, V. M. Nikolayev, N. I. Suvorov, Ye. A. Koshkin and other, spoke on the subject. It was pointed out that various diesel building plants and scientific research institutes are doing work on producing up-to-date diesels with improved gasturbine supercharging and automatic control. Such topics as reduction of fuel consumption and oil were also considered. 7000 diesels with improved motor capacity were produced by diesel plants in 1964 alone. This shows an increase of 27% compared to 1963. Steps were taken to establish a special branch for specialization, cooperation, technical economic study, standardization and other functions. Patentability must be taken into consideration in the production of new diesels. This necessity has been brought about by increased international trade. All requirements for export production should also fall under this topic.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 000/ OTH REF: 000

Cord 2/2



Method of numerical calculation of discontinuous solutions to gas dynamics equations. Insh.-fis. shur. 6 no.1:105-108 Ja 163. (MIRA 16:1)

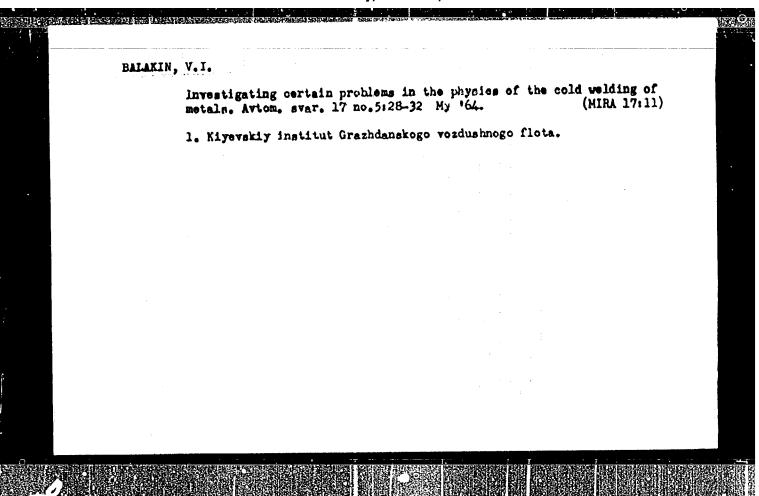
(Differential equations—Numerical solutions)
(Mas dynamics)

KHRENOV, K.K.; BALAKIN, V.I.

Dilatometry of cold welded butt joints in aluminum, copper, and titanium, Avion, svar, 17 no.3:34-36 Mr *64. (MIRA 17:11) titanium. Avtom. svar. 17 no.3:34-36 Mr 164.

1. Institut elektrosvarki im. Ye.O. Patona AN UkrSSR (for Khrenov). 2. Kiyevskiy institut Grashdanskogo vozdushnogo flota (for Balakin).

CIA-RDP86-00513R000103 APPROVED FOR RELEASE: Wednesday, June 21, 2000



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103

Particular milling heads. Stan.i instr. 29 no.6:42 Je '58.

(Milling machines--Attachments)

(Milling machines--Attachments)

KVAPIL', Aleksey Ivanovich, kand.sel'skokhos.nsuk; SERBERYAKOV,
Kapiton Mikhaylovich; RALAKIW, V.M., red.; LOGIMOVA, Ye.I.,
tekhn.red.

[Organisation of rabbit ferms] Organisatsiis krolikovedcheskoi fermy. Moskva, Isd-vo M-va sel'.khos.RSFSR, 1959.
39 p. (MIRA 14:2)

(Rabbits)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103

TITOVA, Mariya Ivanovna; BALAKIN, V.M., red.; LOGINOVA, Ye.I., tekhn. red.

[Rabbit breeder's calendar] Kalendar' krolikovoda. Monkva, 1sd-vo M-va sel'.khos. RSFSR, 1959. 40 p. (MIRA 1419) (Rabbit breeding)

VOLKOV, V.A.; FEDOROVSKIY, N.P., kand.biolog.nauk; PENIONZHERVICH, E.E., prof., doktor biolog.nauk; MASLIYEV, I.T., kand.sel'skokhoz.nauk; KRIKUN, A.A., kand.sel'skokhoz.nauk; PATRIK, I.A., kand.sel'skokhoz.nauk; NALINOVSKAYA, A.S., kand.biolog.nauk; DAKHHOVSKIY, N.V., kand.biolog.nauk; ONLOV, N.V., kand.sel'skokhoz.nauk; RHDIKH, V.K., kand.sel'skokhoz.nauk; GOFMAN, M.B., zootekhnik; GRIGOR'YEV, G.K., starshiy nauchnyy sotrudnik; GORIZONTOVA, Ye.A., starshiy nauchnyy sotrudnik; FROKTISTOV, P.I., kand.veter.nauk; KOTKL'NIKOV, G.A., kand.veterin.nauk; SEKUDOVA, R.I., red.; CRALAKIN, V.M., red.; GRADUSOV, Yu.N., red.; SOKOLOVA, G.S., red.; SAYTANIDI, L.D., tekhn.red.

[Duck raising] Utkovodstvo. Izd-vo M-va sel'khoz. R.S.F.S.R., 1959. 284 p. (MIRA 13:12)

1. Nachalinik Glavnogo upravleniya ptitsevodstva Ministerstva seliskogo khosyaystva RSFSR (for Volkov). 2. Vsesoyusnyy nauchnoissledovateliskiy institut ptitsepromyshlennosti (for Grigoriysv). 3. TSentralinyy nauchnowissledovateliskiy institut ptitsepererabatyvayushchay promyshlennosti (for Gorisontova). (Ducks)

VOGINOV, Semen Mefod yevich; BALAKIN, V.M., red.; SATTANIDI, L.D., tekhn.red.

[Antomatic watering of cattle without the use of matal pipes]
Ustroistvo avtomaticheskogo poeniia dlia skota bez primeneniia
metallicheskikh trub. Moskva, Izd-vo M-va sel',khoz,RSFSR,
1960. 21 p. (MIRA 14:1)
(Cattle--Watering)

KC/ROLEV, A.F.; BALAKIN, V.M., red.; ULIN, I.I., red.; SAYTANIDI, L.D., tekhu. red.

[New methods in raising swine] Novye priemy sodershania swine; sbornik statei. Hoskva, Isd-vo M-va sel',khoz.RSFSR, 1960, 179 p. (MIRA 14:12)

(Swine breeding)

OSTROVSKIV . Nikolay Ivanovich, doktor biol. nauk; BALAKIN, V.M., red.; LEVINA, L.G., tekhn. red.

[Preventing the poisoning of bee by chemicals] Preduprezhdenie otravleniia pchel khimicheskimi veshchestvami. Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1961. 38 p. (MIRA 15:7)

(Bees, Effect of spraying and dusting on)

PETROCHENKO, V.I.; KOTEL'NIKOV, G.A.; BALAKIN, V.M., red.; LEVINA, L.G., tekhn. red.

[Using reservoirs for poultry raising and the prevention of helminthiases] Ispol'zovanie vodoemov dlia vyrashchivaniia ptitsy i profilaktika gel'mintozov. Moskva, Izd-vo M-va sel'-khoz.RSFSR, 1962. 137 p. (MIRA 15:9) (Parasites—Ducks) (Parasites—Geese)

BALAKIN, V.M., red.; ULIN, I.I., red.; KUPTSOVA, Z.V., red.; SAYTANIDI, L.D., takhn. red.

[For high production in the use of land] Za vysokoproisvoditel'noe ispol'sovanie semli; sbornik statei. Moskva, MSKh RSFSR, 1962. 68 p. (MIRA 16:5)

ZHURAVLEV, Yevgeniy Mikhaylovich; BALAKIN, V.M., red.; TRUKHINA, O.N., tekhn. red.

[Manual on the scotechnical analysis of feeds] Rukovodstvo po zootekhnicheskomu analizu kormov. Moskva, Sel'khosizdat, 1963. 294 p. (MIRA 16:10)

(Feeds-Analysis)

CRUDEV, Dmitriy Ivanovich; BALAKIN, V.M., red.; SHESHNEVA, E.A., tekhn. red.

[Organization of breeding work in swine raising] Organizatsiia plemennoi raboty v svinovodstve. Moskva, Izd-vo M-va sel'-khoz.RSFSR, 1962. 137 p. (MIRA 17:1)

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DENISOV, A.D.; BALAKIN, V.M., red.; DEITRIYEV, I.N., red.

[Loose housing of cattle] Bespriviaznoe soderzhanie skota; sbornik statei. Moskva, Sel'khozizdat, 1963. 389 p.

(MIRA 17:6)

CRLOV, V.1.; INCRESETEYN, Ye.I.; BAIAKIN, V.N., red.

[Breeding work and artificial inserination of farm animals]
Flomonoe dolo i iskurstvonnee osenenonie sel'ekokheziaiatvonnykh zhivotnykh; sborník statei. Moskva, Izd-vo "Kolos,"

1964. 205 p. (MIRA 17:8)

SYSOYEV, Aleksandr Anufriyevich, prof.; BALAKIN, V.M., red.

[Theory and practice of the reproduction of cattle] Teoriia i praktika vosproizvodstva skota. Noskva, Kolos, 1965. 255 p. (MIRA 18:4)

SINESHCHEKOV, Aleksey Davydovich, prof.; HALAKIN, V.M., red.

[Biology of the feeding of farm snimals; biological principles of the efficient use of feeds] Biologiia pitaniis sel'skokhozialstvennykh zhivotnykh; biologicheskie osnovy ratsional'nogo ispol'zovaniia kormov.

Moskva, Kolos, 1965. 398 p. (MIRA 18:7)

SAKHAROV, G.S., kand.tokhm.nauk; MANUYIOV, V.F., inzh.; BALAKIM, V.P., inzh.

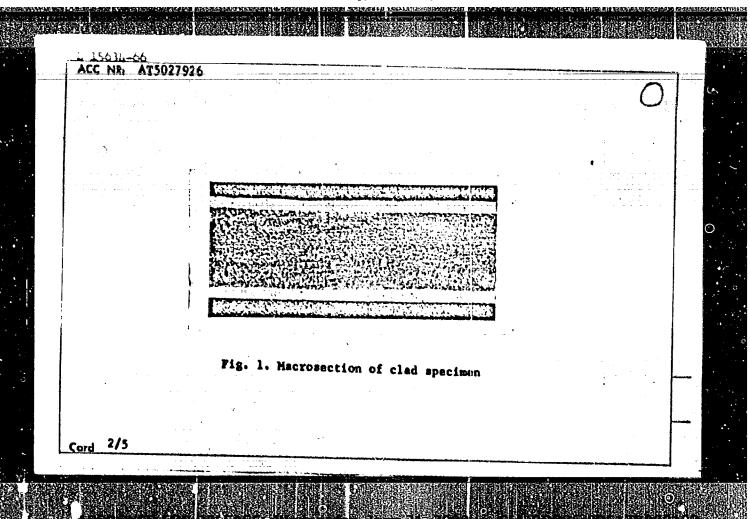
Effoct of surface conditions on the seizing process during cladding. Trudy MATI no.62:157-159 465.

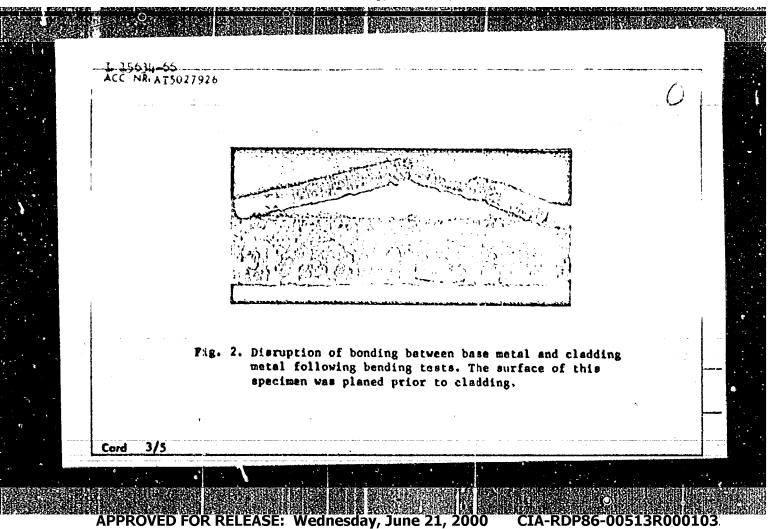
(MIRA 18:10)

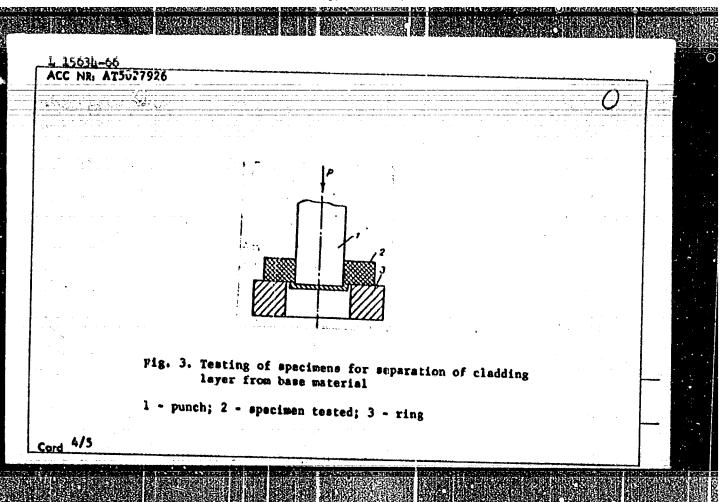
ERICLIA ENERGY ENTRES + CHIPTER + STEET E + ST ACC NA: A75027926 SOURCE CODE: UR/2536/65/000/062/0157/0159 AUTHOR: Sakharov, G. S. (Candidate of technical sciences); Hanuylov, V. Balakin, V. F. (Engineer) OEG: Moscow Aviation Technology Institute (Moskovskiy aviatsionnyy tekhnologicheskiy TITLE: Effect of the state of metal surface on interlocking during cladding SOURCE: Hoscow. Avistsionnyy tekhnologicheskiy institut. Trudy, no. 62, 1965. 4415 Obrabotka davleniyam legkikh splavov (Pressure working of light alloys), 157-159 TOPIC TAGS: metal cladding, metal bonding, bimetal, metal surfacing 44 55 27 ABSTRACT: The article deals with the effect of the area of actual contact on the strength of cohesion between base metal/(D1 alloy) and cladding metal (A1) during rolling of specimens with surfaces polished in a planing machine as well as by means of a metal brush, a file or a rough grinder. The actual surface of contact was estimated by the contact-spot method (V. I. Vill'. Svarka metallow treniyem, Mashgiz, 1959): to determine the overall surface area of friction and the pattern of distribution of contact spots on the contacting surfaces, the specimens are placed on a tracing slab coated with a thin layer of dye. During circular movements of the specimen, performed under a slight pressure, the surface subject to interlocking acquires imprints of dye indicating the number of contact spots and the pattern of their distribution. Findings: 1/5 Card UDC: 669.716:621.97.07

APPROVED FOR RELEASE: Wednesday, June 21, 2000

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ACC NR: AT5027926

the number of contact spots differed according to the treatment of surface; on a planed surface it was 42; on a surface cleaned with metal brush, 86; on a filed surface, 166; and on a ground surface, ∞ (i.e. the entire surface became covered with a layer of dye). Subsequently these specimens were subjected to hot rolling with 25% deformation and the resulting composite (clad) sheets were metallographically examined; the exemination showed a satisfactory bonding of cladding material to the base material regardless of the method of surface treatment (Fig. 1). For a qualitative evaluation of the firmness of bonding, the specimens were subjected to repeated bending: loosening of the cladding layer was observed only for the spacimens whose surface was planed (Fig. 2). Since the number of contact spots for this furface was the lowest (42), the contact-upot method is indeed a workable method for determining bonding strength. Quantitative evaluation of bonding strength (Fig. 3) showed that for the specimens with planed surface the bonding strength was 8.74 kg/mm2, against 8.92 kg/mm² for specimens with surface cleaned by means of a metal brush, 9.21 kg/mm² for specimens with filed surface, and 9.48 kg/mm² for specimens with ground surface. Thus the contact-spot method is a good way of selecting the optimal technique of surface treatment in the production of bimetals and, moreover, can be used for the quality control of the surface of blanks prior to cladding. Grig. art. has: 4 figures.

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 000

Card 5/5

L 12737-63 PDS/FMT(d)/FCC(w) AFFTC IJP(C)

5/208/63/502/012/014

AUTHOR: Balakin, V. S. (Moscow)

TITLE: The stability of "oblique" schemes of differences ()

First Title: The stability of schemes of differences is studied usually on linear model trop lease with some tant poefficiency may also in a setunite sense sind and to the action of the action

 $\sum_{k} a_{k} u_{m+}^{n+} \delta_{+k} = \sum_{l} b_{l} u_{m+1}^{n}$ (1)

where a_k, b_i = matrices of the coefficients, u_{in}^n = vector solution, n = spacial index (a vector), $\hat{b} = \hat{O}(n)$ = displacement index of the n-th layer. The indexing Card 1/2

L 12737-63 ··

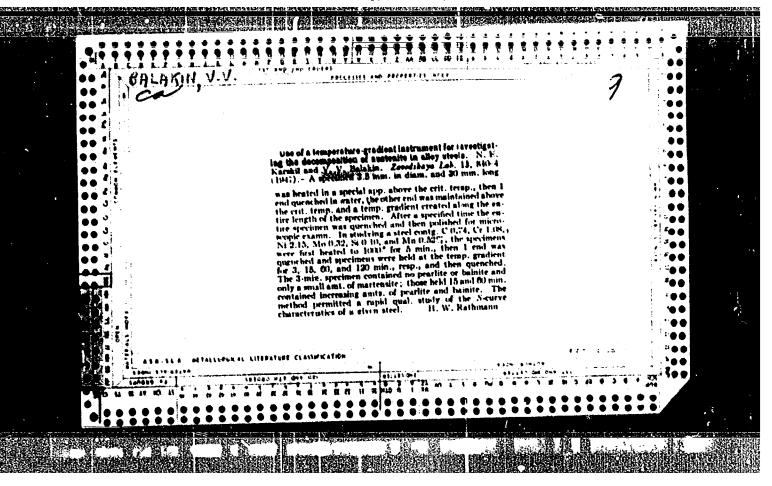
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The stability of

in (1) is understood to be with respect to a rectangular lattice with the same x and t steps as in the oblique system. After discussing the Neumann stability condition for various cases, the author notes that the spacial scheme of the method of characteristics as proposed by R. Sauer (Ref. 3: Z. angew. Math. und Mecn., 1950, 30, no. 11/12) is not stable. The author thanks V. V. Rusanov for the guidance and K. A. Semendyayev and V. S. Ryaben'ko for valuable advice. There are 2 figures.

SUBLITTED: June 9, 1962.

Card 2/2



	BALAKIN, V.Ye.
	Dynamometer testing stand for the general testing of spindles. Izv.vys.ucheb.zav.; tekh.tekst_prom. no.1:169-170 '62. (MIRA 15:3)
· .	1. Hoskovskiy tekstil nyy institut. (Spinning machineryTesting)
	Company of the second s

HAIAKIN, Ye.D.; MUKHANOV, G.V.; MURVANIDZE, D.S., red.; KHRAMYKH, N.M., red.; BRODSKIY, V.S., tekhn. red.

[Topics for inventors and efficiency promoters in the shoe industry] Temmik dlia izobretatelei i ratsionalizatorov obuvnoi promyshlennosti. Moskva, Biuro tekhn. informatsii legkoi promyshl., 1959. 95 p. (MIRA 15:11)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy nauchno-tekhnicheskiy komitet.

(Shoe manufacture—Technological innovations)

BALAKIN, Ye.D.

Production quality is the main object of the leather, shoe end fur industry. Kozh.-obuv. prom. 7 no.5:1-4 My 165.

(MIRA 18:8)

1. Zamestitel' nachal'nika Upravleniya kozhevenne-obuvncy i mekhovoy promyshlennosti Gosudarstvennogo komiteta po legkoy promyshlennosti pri Gosplane SSSR.

KUDRYAVTSEV, V.N.; BALAKIN, Yu.P.; VAGRAMYAN, A.T.

Hydrogen absorption by atest during cathodic polarization in acid aclutions. Zashch. met. 1 no.5:477-481 8-0 '65. (MIRA 18:9)

1. Institut fizicheskoy khimii AN SSSR.

PPROVED TOR RELEASE: Wennesday June 21 2000 TIA RDP86 00515R0001

FALAKILA, G. P.

"The Derivation of Furfural From Cotton Husks by Aqueous Hydrolysis." Cand Tech Sci, Ural Forestry Engineering Inst, Sverdlovsk, 1953. (RZhKhim, No 23, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Ligher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

S/028/61/000/011/004/004 D221/D301

AUTHORS:

Balakina, 1.A., and Borzdyka, A.M.

TITLE:

Rods and strips of heat resisting steels

PERIODICAL:

Standartizatsiya, no. 11, 1961, 34-37

TEXT: The Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (TSNIICHM) (Central Scientific Research Institute of Ferrous Metallurgy) developed a standard for rods and strips of heat resisting steel. It is based on \(\bigcup OCT(GOST) \) 5632-61 and other data, and covers pearlitic, martensitic, martensitic-ferritic and austenitic classes. The first class includes 12X1M\(\bigcup (12KhlMF) \) and other steels containing 0.9 to 3.3% of chromium, 0.15 - 1.1% of molybdenum and vanadium, and 0.3-0.5% of tungsten. The martensitic class averages 4.4-12% chromium with additions of nickel, tungsten, molybdenum and vanadium, covering steels of mark NSM(Kh5M) etc. The steels containing 5-15% of ferrite in their structure are separated into the martensitic-ferritic class, containing 11-13% chromium with other additions. The

Card 1/3

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S/028/61/000/011/004/004 D221/D301

Rods and strips ...

majority of heat resisting steels belong to the austenitic class with 7-27% chromium and nickel each, as well as other additions. The norms of long service and creep form the most important characteristic of these high quality steels. The project of the standard also deals with the mechanical properties of metal at normal temperatures which are determined on specimens of thermally treated blanks. Some characteristics of certain marks of steel are modified in accordance with the technical conditions in force at present, or by the first draft of the project. Additional examination of rods on the demand of customers is envisaged by the new standard, although they are not provided by GOST. This covers hair cracks, presence of the alpha phase etc. The methods of investigating resistance to scale formation, grain sizes, tendency to inter-crystalline corrosion and non-metallic inclusions are covered by GOST 6130-52, 5639 51 and 1778-57. The standard allows a mutual agree. ment between makers and consumers of steel for the above, owing to lack of unified norms of verification. The existing standards will be in force as far as forms, sizes and allowances for hot rolled and forged rods as well as strips are concerned. For dimensions exceeding 200 mm,

Card 2/3

Rods and strips ...

S/028/61/000/011/004/004 D221/D301

the project envisages mutual agreement of steel producers and users. The depth of grinding-off the defects is similar to the standard for stainless and acid resisting rods. For sizes of 141-200 mm it corresponds to GOST 5949-61. There are 6 figures.

Card 3/3

BALAKINA, I.A.; BOCHKAHEVA, A.I.; GORZHEVSKAYA, A.V.; KAPLAN, A.S.; SMOIYARENKO, D.A., kand. tekhn.nauk; TERENT'YEV, Ye.A.; SOTS, G.A.; TREMBITSKIY, Ya.V.; ULINSKAYA, Ye.I.; KHUTORSKAYA, Ye.S., red. izd-va; KLEYNMAN, M.R., tekhn. red.

[Technical specifications in effect on products of ferrous metallurgy; list as of October 1, 1961] Deistvuiushchie tekhnicheskie usloviia na produktsiiu chernoi metallurgii; perechen' po sostoianiiu na 1 oktiabria 1961 g. Moskva, Metallurgizdat, 1962. 141 p. (MIRA 15:5)

1. Moscow. TSentral'nyy nauchno-issledovatel skiy institut chernoy metallurgii.

(Iron industry-Tables and ready-reckoners) (Steel industry-Tables and ready-reckoners)

Apprendicipated and ase premesery line 21,72000 of a subsection and subsection

S/028/62/000/003/005/005 D221/D302

AUTHORS: `

Balakina, I.A., and Bochkareva, A.I.

TITLE:

New technical conditions for manufacturing ferrous

metallurgy

PERIODICAL:

Standartizatsiya, no. 3, 1962, 57-59

TEXT: During the third quarter of 1961, 20 new marks of steel received the technical specifications from TsNIIChH and other scientific research organizations. UMTY (ChMTU) 548-61, 549-61 and 550-61 cover TsNIIChH

the delivery of trial batches of hot rolled and forged rods, etc. in high alloy corrosion resistant steel 9/7 (EP) 309, the chemical composition of which is indicated. The similar specifications 540-61 and 541-61 concern the thick high-strength stainless steel and welding wire. They are intended as replacements of chrome-nickel austenitic stainless steel and are delivered in both untreated and hardened condition. The norm 526-61

Card 1/3

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1:3

New technical conditions for ...

S/028/62/000/003/005/005 D221/D302

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specifies trial order of discs and cylinder forgings in the new chrome, nickel and niobium steel $3\Pi(EP)$ 302. The forgings are tested for intercrystalline corrosion, macrostructure and mechanical properties at both room and 500°C temperature. Specification 545-61 covers rods and forgings of high-stress chrome-nickel-molybdenum steel BN (EI) 310, delivered in annealed condition. 554-61 concerns the chrome-tungsten-vanadium-molybdenum steel 37311 (8HC-6) (EP311(VNS-6)) in rods, and treated. 534-61 is specified for sample rods in 17HM(17 NM) steel, which represents an economy of nickel when compared to 16NM although it reveals higher strength after hardening. 537-61 concerns rods in 17XH2 (17KhN2) steel for drill heads. The supplement to specifications ChMTU 3024-56 covers the delivery of pipe skelp in steel 55X\$\phi A(55KhFA), which has a greater carbon content than a similar 50KhFA steel. 559-61 covers forgings and blanks in the higher stress constructional steel $40X3\phi$ A (40Kh3FA) as a replacement of nickel steel. 527-61 extends to rolled sections in easily welded high atrength low-alloyed steel 0972中(M) (09G2T (H)) and 16下中(3H) (16GT (3N)). 546-61 regulates the delivery of thick plates and profiles in 1072C (10G2S) steel, for structural purposes. Its chemical composition

Card 2/3

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New technical conditions for ...

S/028/62/000/003/005/005 D221/D302

is similar to 10 T2 (A(10G2SD)) with the exception of copper and silicon addition. 551-61 covers thick plates of 10G2S steel after thermal treatment. 538-61 concerns samples of 65 T (65G) and 60C2 (60S2) steels both round and die-forged for pre-stressed concrete structures. 560-61 was developed for ingots in 25×CH2 A(25KhSNVFA) steel. 515-61 covers high temperature alloy strip of mark 3M894 (EI894). 521-61 specifies the delivery of hot rolled stainless sheets in steel 10×16 H45A(3756) 10Kh16N4BA (EP56)). 524-61 deals with hot rolled thick corrosion resistant steel with chrome, nickel, manganese and nitrogen of mark 37222 (EP222), and chrome-nickel-niobium-nitrogen steel EP 223. 517-61 concerns the hot rolled rods of 718 U (P18Sh) steel. Forged discs in steel 3M961U (EI 961Sh) obtained by the electroslag method are covered by 553-61. Pipe skelp in EI878 steel is specified in 513-61, whereas trial batches in pipes of the same steel are governed by 4M7Y (ChMTU) 254-61+

Card 3/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103

CC NR: AT6016768	(%)	SOURCE CODE: UR/2776/65/0	00/042/0127/0132
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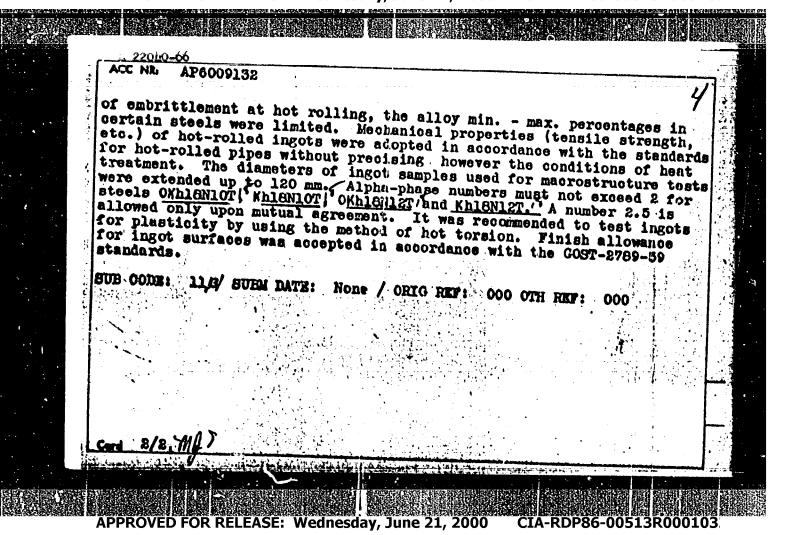
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L 36142-66 ACC NR: AT6016768 14 the Cr-Ni and Ni steel's Khl8N10T, Khl8N9T, OKh13 and Khl7N13M2T as well as by nickel, and the base layer, by low-alloy steels 16GS, 09G2S, 09G2 and 10KhSND, along with simple carbon steels of the St. classe The new GOST also Ancludes such Innovations as the determination of the tenacity of the welding of the base and cladding layers; it is highly important to users that bimetal sheets behave like solid sheets and do not split during their cutting, stemping and other operations involved in constructing chemical and electronic apparatus from these steels: the shear strength of the cladding layer must be at least 15 kg/mm². The introduction of this new GOST will doubtless create the conditions for improving the quality and broadening the variety of the output of bimetals and offer a broader selection of laminated plate and sheets to users. Orig. art. has: 5 figures, 1 table. SUB CODE: 13, 11, 05 / SUBM DATE: none/ ORIG REF: 002 Joining of Dissimilar Metals 2/2 //

CHRICH HEALT REPORTED THE PROPERTY OF THE PROP 1640 (A) SOURCE CODE: UR/0422/66/000/005/00 ÷ក្លាម៉ាម៉ាម៉ាម៉ាម៉ាម៉ាម _{(Climation} A. To Heller ។ SOURCE CODE: UR/0422/66/000/005/0087/0087 ACC NR. AP6018640 AUTHOR: Arone, R. G.; Balakina, I. A.; Bochkareva, A. I.; Stetsenko, B. A.; Sokolovskiy, P. 1. 48 ORG: none b TITLE: A standard for low-alloy structural steel d SOURCE: Standarty i kachestvo, no. 5, 1966, 87 TOPIC TAGS: construction material, structural steel, alloy steel, welding evaluation, mechanical property / 16GS steel, 09G2S steel, 10G2S1 steel ABSTRACT: A series of innovations in low-alloy structural steels (GOST 5058-65) based on recent work done at the Central Scientific Research Institute for Ferrous Metallurgy is described. Nineteen new grades of high strength low-alloy steel containing small amounts of carbide and nitride forming elements (Ti, V, Zr, Nb) were developed. Higher quality and performance are claimed for the new materials and suitable applications are recommended. The steels were melted in standard Martens furnaces and oxygen-converted. While the majority are used in the hot-rolled condition, they may be heat-treated to yield strengths of 40-50 kg/cm² with a saving of 20-30% in material. The heat-treated steels possess lower brittle fracture tendencies and slight aging sensitivity. Phosphorus and sulfur contents of the steels were maintained within strict limits (below Card 1/2

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BALAKINA, N.A.

Umusual case of leukesoid (sosinophilis) reaction in lymphogranulomatosis in a child. Pediatriia. Noskva 36 no.8:60-63 Ag '58. (MIRA 12:1)

l. Is kafedry detskikh bolesney (sam. - prof. A.I. Titova) Yaroslavskogo meditsinskogo instituta.

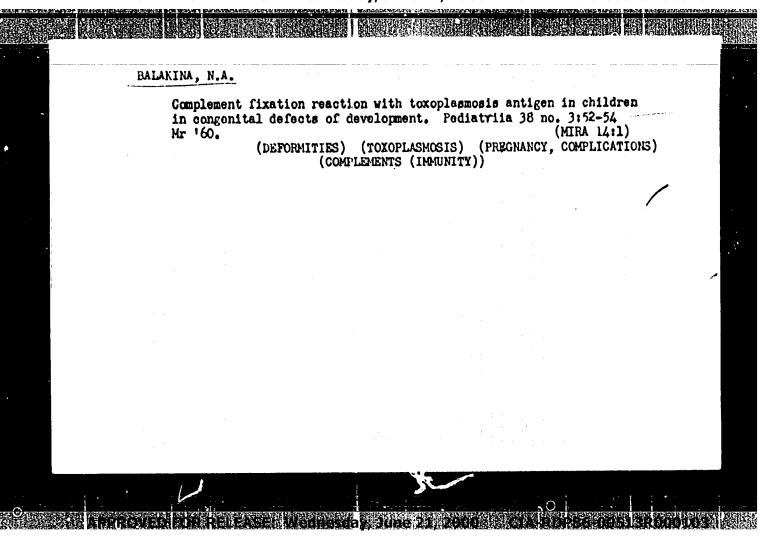
(HODGKIN DISEASE, in infant and child, with eccinophilia (Rus))
(EOSINOPHILIA, in inf. & child, in Hodgkin's dis. (Rus))

BALAKINA, N. A.

"Some Pata on Congenital Toxoplasmosis of Children in the City and Oblast of Yaroslavl'."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Yaroslavl' Medical Institute



BALAKINA, N. A.

Cand Med Sci - (diss) "Congenital toxoplasmosis as one of the causes for defects in the intra-fetal development of children under conditions of the city of Yaroslavl and Yaroslavskaya Oblast." Yaroslavl, 1961. 13 pp; (Second Moscow State Medical Inst imeni N. I. Pirogov); 250 copies; free; (KL, 5-61 sup, 200)

FALIKINA, N. A.

"Conjent tel Toropharosis as one of the Teasons for Defects in the Pre-matal Development of Children"

Yoppon toke planage, report theses of a conference on texoplasacsis, Mascow, 3-5 April 1951, publ, by Trat Epidemiology and Microbiology is. N. F. Gaseleys, Acad. Med. Dei USER, Mascow, 1961, Oppp.

APPROVED FOR RELEASE: Wednesday, June 21, 2000

OHLAKINA LIZI

3(10)

PHASE I BOOK EXPLOITATION

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Akademiya nauk SSSR. Komitet po geodezii i geofizike.

Tezisy dokladov na XI General'noy assambleye Nezhdunarodnogo geodezicheskogo i geofizicheskogo soyuza. Hezhdunarodnaya assotsiatsiya saysmologii i fiziki nedr zemli (Abstracts of Reports Submitted to the XI General Assembly of the International Union of Geodesy and Geophysics. The International Association of Seismology and Physics of the Earth's Interior) Moscow, 1957. 102 p. /Parallel texts in Russian and English/1,500 copies printed.

No additional contributors mentioned

PURPOSE: This booklet is intended for geophysicists, especially those specializing in seismology.

COVERAGE: This collection of articles deals with the structure and composition of the Earth and phenomena related thereto. The majority of the articles concern studies of earthquakes and seismic waves. Other articles cover the structure of the Earth's crust and mountain roots; the elastic properties of rocks at high pressures; the piezoelectric effect of rocks and the method of modelling in tectonophysics. The collection also contains articles on the!

Card 1/5 Earth's thermal history, the microseismic method of tracing storsm and others.

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Abstracts of Reports (Cont.)	8 0V/1663
modelling in tectonophysics. The collection als Earth's thermal history, the microseismic method No references are given.	
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VVEDENSKAYA, A.V.; BALAKINA, L.M.

Characteristics of displacement fields of longitudinal and transverse waves traveling in the earth's crust. Biul. Sov. po seism. no.6:59-62 '57. (MIRA 11:3)

1. Institut fiziki Zemli Akademii nauk SSSR, Moskva. (Seismic waves)

VVEDENSKAYA, A.V.; BALAKINA, L.M.

Certain characteristics of the displacement fields of longitudinal and transversal waves propagating along the earth's crust. Izv.AN SSSR.Ser. geofis. no.8:1052-1054 Ag 157. (MLRA 10:8)

1. Akademiya nauk SSSR, Institut fiziki Zemli. (Seismic waves)

sov/49-59-8-5/27

AUTHORS: Vvedenskaya, A.V. and Balakina, L. M.

TITLE: Double Ray-Refraction in the Earth's Mantle

PERIODICAL: Izvestiya Akadamii nauk SSSR, Seriya geofizicheskaya, 1959, Nr 8, pp 1136-1146 (USSR)

ABSTRACT: Observations of the range of dislocations of the longitudinal (P) and transverse (SV, SH) waves propagating in the Earth's mantle disclosed an increase of amplitudes of the P and SV waves in relation to the SH waves when the seismic rays reached the depths 250-500, 900-1000, 1200-1300, 1800 and 2200 km. This can be explained by the polarization of transverse waves due to double refraction in the anisotropic layers of the Earth's mantle corresponding to these depths. Such an assumption is based on the theoretical analysis of the relationship up/uSH (Eqs 1 and 2) as compared with the observed data (Figs 1-3). The existence of a double ray-refraction in the Earth's mantle can be theoretically defined by Eqs 3 to 10, while a relationship between the elastic

Card 1/2 contents in anisotropic layers can be calculated from

Double Ray-Refraction in the Earth's Mantle SOV/49-59-8-5/27

Eqs 11 and 12. The nature of these layers, however, cannot be determined.

Acknowledgments are expressed to A. A. Treskov and Ye. F. Savarenskly for their help.

There are 3 figures and 7 references, 4 of which are Soviet and 3 English.

ASSOCIATION: Akademiya nauk SSSR Institut fiziki Zemli (Institute of Physics of the Earth, Ac.Sc., USSR)

SUBMITTED: October 3, 1958

SOV/49-59-11-8/28

AUTHOR:

Balakina, L. M.

TITLE:

On Distribution of Stresses Produced by the Foci of

Earthquakes in North West Pacific

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya,

1959, Nr 11, pp 1599-1604 (USSR)

ABSTRACT: The stresses of 24 earthquakes in North Pacific were

investigated. The earthquakes are tabulated on p 1601, where the last 2 main columns give the direction of compressive and tensile stresses

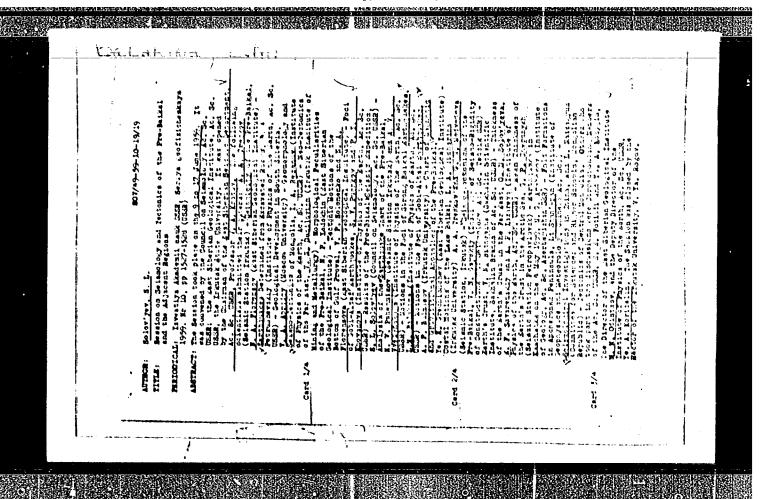
respectively. They are expressed in the angles measured from the lines directed North (A_Z) and from the

vertical (i). The results of analysis are given in Figs 1 and 2 where directions of the horizontal

components of the compressive and tensile stresses are shown respectively (1 - region of deep earthquakes,

2 - intermediate earthquakes, 3 - axis of volcanos, 4 - axis of deep ocean trench, 5 - horizontal components of stresses; focus numbers correspond to

Card 1/2 those in the first column of the Table). Thanks are



VVEDENSKAYA, A. V.; BALAKINA, L. M.

Nethods used and results achieved in determining stresses acting in earthquake foci of the Baikal region and Mongolin. Biul. Sov. poseism. no.10:73-84 60. (NIRA 13:11)

1. Institut fiziki Zenli AN SSSR, Noskva.

(Baikal region--Seismometry)

(Nongolia---Seismometry)

PPROVED FOR RELEASE: Wednesday, June 21, 2000

\$/169/61/000/011/007/065 D228/D304

AUTHOR:

Balakina, L.M.

TITLE:

Some results of the study of the foci of the earthquake of May 4 and June 18, 1959, from instrumental

data

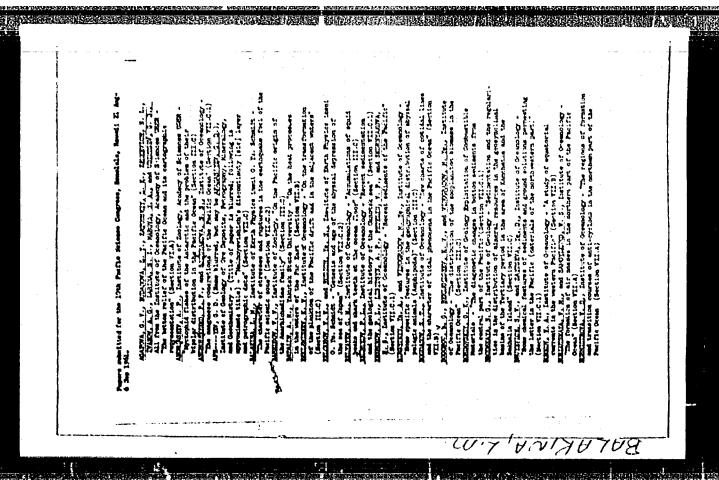
PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 11, 1961. 15, abstract 11A142 (Byul. Soveta po seysmol. AN SSSR, no. 11, 1960, 25 - 31)

TEXT: The orientation of the axes of the chief stresses and the possible directions of movements at the foci were determined for the Kamchatka earthquakes of May 4 and June 18, 1959. The determination was made on the basis of the comparison of observations with formulas for elastic waves arising in a restricted fracture area, in whose plane the momentary displacement of edges in relation to each other occurs. The obtained results are compared with the previously-exposed principal orientation of stresses at the foci of earthquakes in the north-western part of the Pacific Ocean. [Abstractor's note: Complete translation]. Card 1/1

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CIA-RDP86-00513R000103



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103

BALAKINA, L.M.; VVEDENSKAYA, A.V.

Change in the elastic properties and the density of matter on the edge of the earth's core. Izv. AN SSSR. Ser. geofis. no.11:1457-1470 N '62. (MIRA 15:11)

1. Institut fisiki Zemli AN SSSR.
(Earth-Internal structure)