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SOV/20-123-4-14/53

The Asymptotic Behavior of the Eigenfunctions of the Equation  $\Delta u + k^2 u = 0$ with Boundary Conditions Along Equidistant Curves and the Scattering of Electromagnetic Waves in a Wave Guide

> explicitly written down and may be considered to be a double asymptotic curve. This formula describes the asymptotic curve of the eigenfunctions of the initially given equation

> $\Delta \psi_k + k^2 \psi_k = 0 \text{ for } k \rightarrow \infty \text{. The proof for the formula given}$  for the asymptotic curve is outlined. Case c) is also suited for the investigation of a plane curved tubular conductor. In this case the asymptotic curve at  $k \rightarrow \infty$  corresponds to geometrical optics. The variant a) is suited for the investigation of the scattering of electromagnetic waves in a straight coaxial line with arbitrary cross section. The author thanks A. G. Sveshnikov and E. G. Poznyak for their advice and assistance. There are 4 references, 3 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvenbyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov) Card 2/3

APPROVED FOR RELEASE: 06/14/2000

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S0V/20-123-4-14/53
The Asymptotic Behavior of the Eigenfunctions of the Equation & u + k<sup>2</sup>u = 0
Biectromagnetic Waves in a Wave Cuide
PRESENTED: July 2, 1950, by N. N. Bogolyubov, Academician
SUBMITTED: June 24, 1958
Card 3/3

APPROVED FOR RELEASE: 06/14/2000

SOV/51-6-5-25/34 21(1), 24(7) Glasko, V.B., Maslov, V.P., Panikar, V.I. and Sokolov, N.D. AUTHORS : On the Type of Correlation Function for the Helium Atom (C vide TITLE: korrelyatsionnoy funktsii dlya atoma geliya) Optika i Spektroskopiya, 1959, Vol 6, Nr 5, pp 698-700 (USSR) PERIODICAL: In molecular calculations correlation in the motion of electrons is ABS TRACT : allowed for by introducing into the wave-function an additional factor dependent on inter-electron distance r; (Ref. 1). In analogy with the first approximation in the holium atom executations, carried out by Hylleraas (Ref 2), this multiplier can be written for a two-electron system in the form (1) $f(r_{12}) = 1 + 4r_{2}$ where d is a variational parameter. In the general case the correlation function should depend on three correlation variables and f can be then represented as a series in powers of these variables (Refs 2, 3). When only one correlation variable is used the choice of the function  $f(r_{12})$ in the form given by Eq (1) is an arbitrary one. The question arisec as to whether this choice is the best possible one. This question is answered by detensining the correlation function  $f(r_{12})$  for the helium 3ard 1/2

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i shiring a SOV/51-6-5-25/34 On the Type of Correlation Function for the Helium Atom The result is shown as curve I in a atom by a variational method. figure on p 700; curve 11 represents the Hylleraas function given by Eq (1). Both curves are plotted as functions of distance in atomic units. The figure shows clearly that the correlation function approximation in the form of Eq (1) is practically the best choice, at least for atoms. The paper is entirely theoretical. There are 1 figure and 6 references, 3 of which are Soviet, 1 English, 1 German and 1 mixed (Soviet, English and French). November 29, 1958 SUBMITTED: Card 2/2

APPROVED FOR RELEASE: 06/14/2000

16(1) 507/42-14-3-11/22 Maslov, V.P. AUTHOR: Applications of Functional Analytical Methods for the TITLE: Construction of the Quasi-Classical Asymptotic Behavior of the Solution of the Schrödinger Equation Uspekhi matematicheskikh nauk, 959, Vol 14, Nr 3, pp 161-168 (USSR) PERIODICAL: By the generalized solution of the Cauchy problem for ABSTRACT: (1)  $L\psi = i h \frac{\partial \psi}{\partial t} - H\psi = i h \frac{\partial \psi}{\partial t} + \frac{h^2}{2\mu} \frac{\partial^2 \psi}{\partial x^2} - u(x)\psi$ the author understands the function  $\Psi(\mathbf{x},\mathbf{t}) = \mathbf{e}^{\frac{\mathbf{i}}{\mathbf{h}} \operatorname{Ht}} \Psi(\mathbf{x},\mathbf{c})$ if  $\Psi(\mathbf{x}, \mathbf{0})$  is the initial vector. Let  $\mathbf{u}(\mathbf{x})$  be three times differentiable,  $\mathbf{u}(+\infty) = \mathbf{u}(-\infty) = \infty$ ; let the equation  $\mathbf{u}(\mathbf{x}) = \mathbf{E}$  have two roots  $\mathbf{x}_1(\mathbf{E})$ ,  $\mathbf{x}_2(\mathbf{E})$  for  $\mathbf{E} > 0$ . Let the initial condition be Card 1/4

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CIA-RDP86-00513R001032810002-4"

Applications of Functional Analytical Methods  $30\sqrt{42-14-3-11/22}$ for the Construction of the Quasi-Classical Asymptotic Behavior of the Solution of the Schrödinger Equation  $-\frac{1}{2}$   $\frac{1}{h}S(x)$  $(2) \ \Psi(x,0) = p(x) F(x)$ ,  $F(x) = \Psi(x) =$ , where  $p(x) = \sqrt{2}/\sqrt{E} - u(x)$  is the classical impulse,  $S(x) = \int_{x_1}^{x_2} p \ dx$ ,  $\Psi(x)$  an arbitrary function vanishing outside of  $[x_1(E), x_2(E)]$  and satisfying the condition  $\int_{x_1}^{x_2} p^{-1} |\Psi(x)|^2 \ dx < \infty$ . Theorem : The solution of (1) - (2) admits the representation:  $\Psi(x,t) = p^{-\frac{1}{2}}(x) F[x(x,t)] + z(h)$ ;

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Applications of Functional Analytical Methods for 30V/42-14-3-11/22the Construction of the Quasi-Classical Asymptotic Behavior of the Solution of the Schrödinger Equation

here X(x,t) is the solution of |tX| = -n!(X) which satisfies the initial condition  $X|_{t=0} = x$ ,  $|X|_{t=0} = \frac{p(x)}{r}$  and  $||z(h)||_{L_2} \rightarrow 0$ . The further details are valid for the case that H is defined on a finite interval [a,b], whereby the eigenfunctions vanish in the final points of the interval. The author defines a space, on the functions of which the quantum mechanic operators change over into classical ones, so that the defined space is decomposed into two spaces which are invariant in the limit with respect to the direction of the impulses. In some similar cases the author gives asymptotic representations for the eigen values and eigenfunctions of H and for the solution of the Cauchy problem

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810002-4 13 Applications of Functional Analytical Methods for SOV/42-14-3-11/22 the Construction of the Quasi-Classical Asymptotic Behavior of the Solution of the Schrödinger Equation for (1). Altogether there are 3 theorems. The author thanks A.N. Tikhonov, S.V. Fomin and M.I. Vishik for several valuable suggestions. There are 8 references, 6 of which are Soviet, 1 American, and 1 Hungarian. SUBMITTED: January 26, 1957 Card 4/4

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# CIA-RDP86-00513R001032810002-4

16(1) AUTHOR:	Maslov, V.P.	SOV/42-14-4-15/27
FITLE:	On Some Methods of Functional Operator Equations and Partie Parameters	Analysis in the Theory of 1 Fifferential Equations With
PERIODICAL:	Uspekhi matematicheskikh nauk	, 1959, Vol 14, Nr 4, pp 179-186 (USSR)
ABSTRACT :	region of definition $D(T)$ . Le and let it be $T^{**}$ . The author	the Hilbert space H with a dense t there exist the closure $\overline{T}$ of $\overline{T}$ r considers a sequence of such s not depend on n. Let there exist
	the strong limit value $T = 1$ $D(T) = D(T_n)$ .	im $T_n$ with the region of definition $\Rightarrow \infty$
	Theorem: Let $T = \lim_{n \to \infty} T_n$ . 1) I	f there exist uniformly bounded
	inverse operators $\overline{T}_n^{-1}$ , then t	here also exists $\overline{\mathrm{T}}^{-1}$ ; it is defined
		of the set of solutions of $T^* x = 0$ .
	Here $\{\overline{T}_n^{-1}\}$ converges strongly	to $\overline{T}^{-1}$ on this subspace. 2) If $x_0$
	satisfies the equation $T\pi_0 = -$	0 and there exist operators $S_n \subset T_n$
ard 1/3		- +

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507/42-14-4-15/27 On Some Methods of Functional Analysis in the Theory of Operator Equations and Partial Differential Equations With Parameters (i.e.  $D(S_n) \subset D(T_n)$ ,  $T_n S_n^{-1} = 1$ ), where the  $S_n^{-1}$  are uniformly bounded, then there exists a sequence  $\{x_n\}$  of solutions of  $T_n x = 0$  which converges strongly to  $x_0$ . Theorem: Let  $T = \lim_{n} T_n$ . If there exists a bounded sequence  $\{x_n\}$ of solutions of the equations  $T_n^{\dagger} \mathbf{x}_n = f_n$ , where  $\{f_n\}$  converges weakly to an f, then there exists a sequence  $\{y_n\}$  of solutions of  $T_{y_n}^{*} = f$  so that  $\{x_n - y_n\}$  converges weakly to zero. Let  $T_n = \xi(n) \left[ A_1 + K_n A_2 \right] + M_n$ ,  $L_n = \xi(n) A_1 + M_n$ , where  $\xi(n)$  is a bounded number sequence and  $\{M_n\}$ ,  $\{K_n\}$  are uniformly bounded sequences of operators. Theorem: Let  $\lim \|K_n\| = 0$ ,  $D(A_2) \ge D(A_1)$ . 1. If  $\{L_n^{-1}\}$  is uniformly bounded, then  $\|T_n^{-1}-L_n^{-1}\sum_{n}^{N}(-1)^k [\ell(n)K_nA_2L_n^{-1}]^k \| \leq [\alpha \|K_n\|]^{N+1}$ , Card 2/3

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#### CIA-RDP86-00513R001032810002-4

On Some Methods of Functional Analysis in the SOV/42-14-4-15/27 Theory of Operator Equations and Partial Differential Equations With Parameters where  $\propto$  does not depend on n and N. 2. Let  $\{x_n\}$  be the sequence of solutions of  $L_n x_n = 0$ . Let there exist operators  $S_n \subseteq L_n$  so that  $\{S_n^{-1}\}$  is uniformly bounded. Then for a sufficiently large n  $y_n = \sum_{k=0}^{\infty} (-1)^k [\mathcal{E}(n)S_n^{-1}K_nA_2]^k x_n$ are solutions of  $T_n y_n = 0$ , where  $\|y_n - \sum_{k=0}^{N} (-1)^k [\xi(n) S_n^{-1} K_n A_2]^k \|x_n\| \le (\beta \|K_n\|)^{N+1},$ where  $\beta$  does not depend on n and N. Putting  $\xi(n) \equiv 1$ ,  $M_n \equiv 0$ ,  $K_n = \xi$ , then from this theorem it follows the existence of a solution of the equation  $(A_1 + \xi A_2)x_{\xi} = 0$  which depends analytically on  $\boldsymbol{\xi}$  . The author thanks A.N.Tikhonov, S.V.Fomin, and A.A.Dezin for discussions. There are 7 references, 4 of which are Soviet, 1 German, and Card 3/32 Hungarian.

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AUTHOR:	Maslov, V. P.	
TITLE:	On the Transition of Quantum Mechanics Into Classical in the Multidimensional Case	•
PERIODICAL:	Uspekhi matematicheskikh nauk, 1960, Nr 1, pp 213-220 (USSR)	•
ABSTRACT:	In application of methods of functional analysis in the construction of quasi-classical asymptotics of the solution of Schrödinger's equation Usp. mat. nauk, XIV, Nr 3 (87) (1959) 161-168), the author shows that in the one-dimensional case for $h \longrightarrow 0$ , the quantum mechanics operators go into classical expressions. Here the unitary Schrödinger operator converges to the unitary operator corresponding to a dynamic system of fixed energy. In this paper the author extends some results of this study to the multidimensional case. For	
Card 1/7	simplicity the two-dimensional case is considered.	

Classical in the Multidimensional Case On the Transition of Quantum Mechanics Into Classical in the Multidimensional Case  $\Gamma(t, \frac{d^2}{dt} - \frac{b^2}{2\mu} \Delta \psi + t^2(x, y) \psi = 0.$  (1) where the potential energy U(x, y) is sufficiently smooth. Let  $\Omega = (-s_1 \leq s \leq s_2 \times 0 \leq \tau \leq \tau)$  be a domain and  $L_2$  be the a Hilbert space of functions for which the scalar is defined as  $(t_1, t_2) = \int t_1 \cdot t_2 d_1 d_2, \quad t_1, \quad t_2 \in t_2,$  (4)  $L_2(\Omega), \quad \widetilde{L}_2(\Omega)$  are Hilbert spaces with scalar products given respectively by

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77808 SOV/42-15-1-15/27 On the Transition of Quantum Mechanics Into Classical in the Multidimensional Care is defined everywhere in L (  $\Omega$  ). In  $\widetilde{L}_{_{\!\mathcal{C}}}$  (  $\Omega$  ) introduce the translation operator  $Q_t f(s, \tau) = f(s, t+t)$ with domains of definition in  ${\tt L}_2$  (  $\Omega_{\rm t}). The measure$  $\frac{dx\,d\mathbf{r}}{dx} = \frac{D\left(t,\,s\right)}{D\left(t,\,y\right) + 2\mu\left[t,-U\left(t,\,y\right)\right]} \frac{dx\,dy}{\frac{1}{t-1}} \frac{\mu}{2\mu\left[t-U\left(t,\,y\right)\right]} \frac{dx\,dy}{dx\,dy - \varrho\left(t,\,y\right)dx\,d\eta} (6)$ Where J D(x,y)D(1. ... will be invariant relative to the operator . . Analogous to the one dimensional case introduce the operator Card 5/7 $M = \int \varrho\left(\tau, y\right) e^{-\frac{1}{h} - \theta\left(\tau, y\right)}.$ 1

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#### CIA-RDP86-00513R001032810002-4

MASLOV, V.P. (Moskva) Quasi-classical asymptotic solutions of certain problems of mathematical physics. Zhur. vych. mat. i mat. fiz. 1 no.1:113-128 ja-F '61. (MIRA 14:8) (Asymptotes) (Mathematical physics) (Boundary value problems)

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S/046/61/007/001/007/015 B104/B204         are obtained, which, in the case of a suitable selection of the parameters permit calculation of the corresponding coefficients. Equation (6) may further be used for determining the conditions at which bending waves are not reflected from the intermediate rod. It is shown that with a certain material of the intermediate rod, by suitable selection of its thickness, a total reflection-free passage of the bending waves may be attained. In the same way, the condition for the lack of a reflection of the inhomogeneous waves on the intermediate rod is formulated. There are 6 references: 1 Soviet-bloc.         ASSOCIATION:       Akusticheskiy institut AN SSSR Moskva (Institute of Accoustics of the AS USSR, Moscow)         SUEMITTED:       May 29, 1960	· · ·		20236	
<pre>permit calculation of the corresponding coefficients. Equation (6) may further be used for determining the conditions at which bending waves are not reflected from the intermediate rod. It is shown that with a certain material of the intermediate rod, by suitable selection of its thickness, a total reflection-free passage of the bending waves may be attained. In the same way, the condition for the lack of a reflection of the inhomogeneous waves on the intermediate rod is formulated. There are 6 references: 1 Soviet-bloc. ASSOCIATION: Akusticheskiy institut AN SSSR Moskva (Institute of Acoustics</pre>	The passage	of	S/046/61/007/001/007/015 B104/B204	
of the AS USSR, Moscow) SUBMITTED: May 29, 1960	further be up not reflected material of total reflect	lation of the corresponding sed for determining the cond I from the intermediate rod. the intermediate rod, by sui tion-free passage of the ben	coefficients. Equation (6) may itions at which bending waves are It is shown that with a certain table selection of its thickness	
	waves on the	o condition for the lack of intermediate rod is formula	a reflection of the inhomogeneous	18
Card 4/4	waves on the 1 Soviet-bloc	o condition for the lack of intermediate rod is formula Akusticheskiy institut AN	a reflection of the inhomogeneous ted. There are 6 references:	
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	Bame way, the waves on the 1 Soviet-bloc ASSOCIATION:	Akusticheskiy institut AN of the AS USSR, Moscow)	a reflection of the inhomogeneous ted. There are 6 references:	

## CIA-RDP86-00513R001032810002-4

MESLOV, V.P.; TARTAKOVSKIT, B.D. Transit of flexural waves across an intermediate rod, involving losses. Akust.shur. 7 no.2124-227 '61. (MIRA 14:7) 1. Akusticheskiy institut AN SSSR, Moskva. (Sound--Transmission)

APPROVED FOR RELEASE: 06/14/2000

# MASLOV, V. Comments on the asymptotic nature of the eigenfunctions of Schrödinger's equation. Usp. mat. nauk 16 no.4:253-254 J1-Ag '61. (MIRA 14:8) (Eigenfunctions) (Wave mechanics)

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		S/046/62/008/002/006/016 B104/B138	
TITLE: PERIODICAL: TEXT: The prods, connections, connections and is less that this condit	Maslov, V. P., Tartakovskiy, B. Propagation of flexural vibrations Akusticheskiy zhurnal, v. 8, no problem is the propagation of tracted by butt joints. Each rod so has arbitrary elasticity parameters none and a half times the lengentiation of reflections of reflections of reflections wave potentials through n intermediated for the coefficients of reflections $R_{0,n+1} = \frac{R_{0n} + (D_{0n}D_{n0} - R_{0n}R_{n0})R_{n,n+1}}{1 - R_{n0}R_{n,n+1}e^{\frac{12\pi}{2}n}}$	no. 2, 1962, 194 - 198 ransverse waves in a series of satisfies the conditions of pur eters and cross section. No ro ths of a transverse wave. Usin tion and transmission of the ediate rods can be calculated	ng A
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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810002-4 s/046/62/008/002/006/016 B104/B138 Propagation of flexural vibrations... and выражениях (10) - (12) приняты сокращения:  $P_{pq} = R_{p, p+1} R_{q, q-1} c^{i_2 \sum_{k=1}^{q} \varphi_k}, \quad T_p = R_{p, p+1} c^{i_2 \sum_{k=1}^{p} \varphi_k}.$ Despite the above restrictions, results obtained from these formulas for rods only half the wavelength, deviate from the experimental results by //] only 10%. ASSOCIATION: Akusticheskiy institut AN SSSR Moscow (Acoustics Institute AS USSR, Moscow) SUBMITTED: April 26, 1961 Card 3/3

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	Functional analysi	Funktsional	nyy analiz), Mosco	w, Isd-vo "Nauka"	. 1964.	-	• • •
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TABLE OF CONTENTS [abridged]:		•	
Foreword - 13 Ch. I. Basic concepts of functi Ch. II. Linear operators in Hill	onal analysis - 17		
Ch. III. Linear differential eq Ch. IV. Nonlinear operator equa Ch. V. Operators in space with Ch. V. Commutative standard ri	tions - 187 a cone - 229 ngs - 256	·	
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TITLE: P	ropagation of	f flexural waves along	a rod with p		ed load
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MASLOV, V.S.; GORYACHEV, A.G.; SUVOROV, V.H.

Device for cutting irregularly shaped windshields. Stek.1 ker. 17 no.4:37-38 Ap '60. (MIRA 13:8) (Glass cutting) (Automobiles---Windows and windshields)

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MASLOV, V. V.

的行政的目的编辑

Maslov, V. V. -- "Investigation of the Process of Combustion in a High-speed Ship Stoker." Min River Fleet USSR, Leningrad Inst of Engineers of Water Transport, Leningrad, 1955 (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No 24, 11 June 1955, Moscow, Pages 91-104

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以1999年1月1日中心,1999年4月1日中国的新闻教师新闻学校,1999年4月1日 1月1日日 - 1999年4月1日日 - 1999年4月1日日 - 1999年4月1日日 - 1999年4月1日

FITLE:	Results of Tests of a High-heat-release Anthracite Combustion Chamber and Prospects of its Use on River Vessels (Rezul'taty ispytaniy topki skorostnogo goreniya dlya antratsita i perspek- tivy yeye vnedreniya na rechnom flote)
PERIODICA	L: Tr. Tsentr. ni. in-ta rechn. flota, 1957, Nr 35, pp 63-89
ABSTRACT:	obtained from an experimental investigation of the high-heat- release process of anthracite combustion occurring inside the fire chamber confirm the correctness of its basic design prin- ciples. The process is shown to depend on maintaining an even permeability of the bed of the high-heat-release fire chamber relative to the airwhich can be done by scattering the fuel over the bed with the aid of a rotary stoker. Fluis chamber, of the high-thermal-stress type, burns anthracite efficiently and is equal to the demands made on modern power units. 1. Combustion chambersDesign 2. Coal R.P. Vorontsov
Card 1/1	Combustion 3. CombustionTheory

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#### CIA-RDP86-00513R001032810002-4

MSLOV, V.V., kand.tekhn.nauk Analysis of the'present state and prospects for the development of marine engine auxiliaries. Inform. sbor. TSNIIM no.73. Tekh. ekspl. nor. flota no.13:18-40 '62. (NIRA 26:3) (NIRA 26:3)

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#### CIA-RDP86-00513R001032810002-4

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MASLOV, V.V., kand. tekhn. nauk

Certain aspects of outfitting the power plant of the motorship "Poltava" with auxiliary equipment. Inform. : bor TSNIIMF no.96. Tekh. ekspl. mor. flota no.23:40-56 '63 (MIRA 18:1)

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engine compressor system, high pressure compressor, 'ship component, diesel engine, marine engine, engine air installations in motorships of the <u>Beloretsk</u> , described. The differences in the requirements im- by the rules of classification societies are re- tems installed in ships built in recent years both are analyzed and a table listing the units contained
engine compressor system, high pressure compressor, 's ship component, diesel engine, marine engine, engine
. ni. in-t morsk. flota, vyp. 40 (139), 1965, 3-23
ort, Abs. 5V72
for ships with slow speed engines and fitting them
SOURCE CODE: UR/0398/66/000/005/V016/V016
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### CIA-RDP86-00513R001032810002-4

INASLOV 1 11 7011. Dielectric characteristics and structure es 7011. Dielectric characteristics and structure m polycrystals of the system ZaO, TiO, -1 SMgO, TiO, G. J. SKAMAVI AND V. V. MASLOV. Zh. Physer. Ver. Fiz. 27, No. 6(12) 735-41 (1950) Inf Russian. The experimental findings show that the dielectric constant of the system ZnO, TiO, -1 SMgO T2O, in a wide range of concentratistics remains practically constant when the second component is parily replaced by the first (70-75%, by weight of ZnTiO). This may be explained by the fact that the electronic polarizability of the Zn<sup>2</sup> mmd Mg fons is equal and that the radii of (B) Zn<sup>2</sup> mind Mg fons is equal and that the same situatione, as is confirmed by X-ray investiga-lions. The temperature coefficient of the idelectric constant increases aligntly with ZnTiO, concentration. The differences in the dielectric characteristics between mixed Elanates of the spicel and perovskile types are USSR, nuxed Elanates of the spinel and pernyskile types are distanced with reference to their differing structures which permit of a perfect interpretation of the empirical data. IL F. KRAUS Ti-1:25 Month and and Plupico Instrin. P.N. debelur, AS USSR

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#### CIA-RDP86-00513R001032810002-4

The sov/110-59-9-19/22 Principles of Humidity Test Conditions on Products Intended for Tropical Service the graphs for machines of normal and tropical design are compared. The humidity testing recommendations of the International Electrovecknical Commission (IEC) are discussed and it is considered that they are of limited value and applicable only to a narrow range of radio components. Accordingly, the objects of the present work were: to determine the best duration of test; to determine the best temperature and duration of accelerated test conditions; and to determine the best cycle of temperature and humidity testing. were made on induction motors types A06 of 10 kW and A04 of 2.8 kW of both normal and tropical constructions. The tropical 10 kW motors had silicone insulation and the The normal motors class 3 insulation. The tropical 2.8 kW motors used glass cloth and flexible micanite as slot insulation, whilst cotton and pressboard were used in the normal motors. Tests were also made on other types of equipment, such as contactors. The humidity and tempera-Card 2/6 ture chamber is described. Electrical equipment in the chamber was exposed to a relative humidity of 98-100% at temperatures of 20, 40, 55 and 70 oC for 10-30 days.

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The Principles of Humidity Test Conditions on Products Intended for Tropical Service of change of electrical characteristics and is of considerable interest. Figs 4 and 5 show graphs of the increase in permittivity as function of time on continuous exposure to humidity at various temperatures. The curves in Fig 6 show the degree of acceleration of the tests made at high temperature as compared with those made at 20 oC. At 70 oC acceleration is by factor of about 30, at 55 oC by a factor of 10, and at 40 oC by a factor of 2.5-3. It is accordingly recommended that th factor of 2.5-3. It is accordingly recommended that the best test duration at 40 °C is 21-28 days, assuming that the best test time at 55 °C is 7 days. Continuous and cycled humidity tests are then compared. It will be seen from the curves given in Figs 7 and 8 that the conditions of 18 hours humidity followed by 6 hours cooling are the most severe. The recommendation that the humidity tests should be cyclic and not continuous is confirmed by the attitude of the Indian Delegation to the Stockholm Session of the I.E.C. in 1958 and by other published work. addition to test-chamber results the curves of Figs 4 and Card 4/6 5 show also changes in permittivity during exposure under natural conditions in Shanghai. It is concluded that,

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SOV/110-59-9-19/22 of Humidity Test Conditions on Products Intended The Principles for Tropical Service approximately, a tropical chamber test of 21 days at  $40^{\circ}$ C with the 16 - 8 cycle is 20-25 times more severe than natural exposure. Thus the chamber test of 21 days is approximately equivalent to  $1-l\frac{1}{2}$  years' natural tropical exposure. The factors that influence the rate of humidification of insulation are briefly discussed. The tests may be made at constant relative humidity but different temperatures. In this connection curve 1 of Fig 6 indicates that as the temperature is raised the rate of humidification increases more rapidly than does the total humidity present. Tests may also be made at different total humidity at various temperatures, and in this case the lower the temperature the higher the relative humidity. Also, humidification is then more rapid at the lower temperature. This was confirmed by tests on stators of normal and tropical construction; test results Card 5/6 are plotted on Figs 9 and 10, to show change of

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SOV/110-59-9-19/22 The of Humidity Test Conditions on Products Intended Principles for Tropical Service

permittivity as a function of exposure time at given absolute but variable relative humidity. There are 10 figures and 3 Soviet references.

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## CIA-RDP86-00513R001032810002-4



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#### CIA-RDP86-00513R001032810002-4

# MASLOV, V. YA.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and taxtbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Ap. 1954)

# Name

Petrosyan, A. A. <u>Maslov, V. Ya</u>.

# Title of Work

# Nominated by

"Local Types of Fruit Crops of Noldavia"



80: W-30604, 7 July 1954

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	SOV/96-58-6-13/24
UTHORS:	Maslov, V.Ye, Engineer and Marshak, Yu.L., Cand.Tech.Sci.
ITLE:	An investigation of the separation of solid burgers of the separation of solid burgers on to a liquid film with a swirling gas flow. (Issledovaniye on to a liquid film with a swirling gas flow. (Issledovaniye
	separatsii tverdyku vzvesnemiya častova i
	pri vikhrevom dvizhenii potoka).
PERIODICAL	pri vikhrevom dviznenii potoza). Teploenergetika, 1958, vol 5 No.6. pp. 63 - 70. (USSR)
ABSTRACT	It is difficult to study the way that shap consting conditions.
	tranned in cyclone Iurnaces under notate in which the
	Accordingly, it is of interest to study cold models in unice and liquid slag surface is represented by a film of viscous liquid and liquid slag surface hy solid particles in suspension. Tests
	liquid slag surface is represented by a film of viscous and the drops of liquid slag by solid particles in suspension. Tests the drops of liquid slag by solid particles in suspension.
	in the cold are, however, not obtained and the process. This
	the effects of combustion on the day of the separation of suspended
	work attempts a more careful study of the sopulations liquid, particles from a swirling flow on to a film of viscous liquid,
	particles from a swirling flow on to a line of used in the applying the theory of similarity. The equipment used in the
	experiments was a horizon car security the discharge side of a fan-
	measuring instruments and average in the liver connected to the
	The various separator models which and the models was lined with
	open end of the tube. The inside of the inclusion open end of the tube. The dusty-particles, obtained by cloth coated with vaseline. The dusty-particles, estimate the inlet tube at a suitable distance from
0	cloth coated with vaseline. The dusty-particles, contained up winnowing, were fed into the inlet tube at a suitable distance from
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SOV/96-58-6-13/24

An investigation of the separation of solid suspended particles on to a liquid film with a swirling gas flow.

the inlet to the model. The dust consisted of crystals of K2Cr<sub>2</sub>07 with a specific gravity of 2.69 x  $10^3$  kg/m<sup>3</sup>. There is not complete agreement about the criteria that govern the separation of dut in cyclones. Some consider that when the resistance of the particles follows Strokes' law, the governing criteria are those of Stokes and Froude; others consider that the process of separation is governed only by the Stokes criterion. A special study of this point was accordingly made. A number of effects that occur in dry cyclones were absent, because once a particle of dust touched the sticky wall it was trapped. The tests were made on geometrically similar models installed vertically with tangential flow inlet as shown in fig.l. The diameter of the modele ranged from 50 to 400 mm, and the length was four diameters. Separation was improved by increasing the size of particles and the rate of flow, and by decreasing the diameter of the model. The results are plotted as functions of Stokes' criterion in fig.2., and it is shown that this criterion is the governing one.

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SOV/96-58-6-13/24

An investigation of the separation of solid suspended particles on to a liquid film with a swirling gas flow.

Change in Froude's criterion over very wide limits has no influence on the process of separation. A plot of the change in the coefficient of dust distribution along the length of the chamber with tangential inlet is given in fig.3. Most of the dust is deposited in the first section of the chamber, and the character of the curves alters very little with changes in the Stekes' criterion. In an actual cyclone, combustion reduces the swirling of the flow. To study the effect of changes in swirl upon dust separation, tests were made in a cylindrical chamber 100 mm diameter and 400 mm long, with various swirlers having blades set at different angles. The resultant relationship between the degree of separation and Stokes' criterion is plotted in fig.4. The change in degree of separation along the length of the chambers with bladed swirlers is plotted in fig.5, which shows that if the swirl of the flow is increased more dust is deposited in the early stages. It follows that to get good separation in short chambers, good swirling is required, and that if the chamber is long the reduction in swirl that results from combustion will be less damaging than if the chamber is short. To study the influence of the shape of the chamber, tests were made with cylindrical chambers having various ratios of chamber to swirler diameter, and on square and rectangular chambers. The same swirler

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An investigation of the separation of solid suspended particles SOV/96-58-6-13/24 on to a liquid film with a swirling gas flow.

was used in all tests. The results are plotted in figs. 4 and 5. The transition from round to square to rectangular shape reduces the separation of dust, the effect being most marked in long chambers. Beduction in the diameter of the swirler relative to that of the separator reduced the separation, particularly in long chambers. Analysis of the experimental data yields a generalised relationship that may be used to determine the degree of separation of dust in variously-proportioned chambers with bladed swirlers with various amounts of swirl. Tests were made on a 1/5 scale model geometrically similar to a cyclone pre-furnace of the All Union Thermotechnical Institute. The three burner arrangements depicted in fig.7. were used. The graphs in fig.8. show the relationship between the total degree of separation and the flow of air in the chamber. Dust is trapped best when all the air is passed through the bladed burner, and worst when 80% of the air passed through the tangential nozzle and the rest through the bladed burner. Thus, it may be supposed that with an equipment of given resistance to flow, the best burner arrangement, when the fuel is

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810002-4 An investigation of the separation of solid suspended particles SOV/96-58-6-13/24 on to a liquid film with a swirling gas flow. of high volatiles content, is one in which all the fuel dust and air are passed through the bladed burner. When the fuel is of low volatiles content, ash is best removed by a construction in which only the fuel/air suspension is passed through the bladed burner and the rest is passed through the tangential nozzle. This improves the combustion conditions by increasing the time that the fuel particles are in the pre-furnace before reaching the walls. There are 8 figures and 15 literature references (11 Soviet, 2 German and 2 English) (Vsesoyuznyy Teplotekhnicheskiy ASSOCIATION: All Union Thermotechnical Institute. Institut) 1. Slags--Separation 2. Gas flow--Applications Card 5/5





sov/96-59-12-10/20 Marshak, Yu. L., Candidate of Technical Sciences, and Maslov, V. Ye., Engineer AUTHORS: The Arresting of Suspended Particles Flowing Isothermally Through a Bundle of Tubes Coated with Viscous Fluid TITLE: ERIODICAL: Teploenergetika, 1959, Nr 12, pp 55-62 (USSR) ABSTRACT: Published data on the separation of suspended particles in a flow of gas by a bundle of tubes are not very suitable for design purposes. Tests were accordingly made to study the influence of tube bundle geometry, rate of gas flow, particle size distribution and other factors on the process of ash-arresting. The tests were made in a vertical duct of 100 x 100 mm containing model tube bundles and connected to an extraction fan. The tubes were smeared with petrolatum to represent molten slag. The dust used was potassium bichromate, and the quantity trapped was determined by iodometric methods of analysis. The various models of bundles of tubes that were tested are shown in Fig 1. In the main test the tubes were 5 mm diameter, which is about 1/20th of the diameter used in practice. The efficiency of arresting was evaluated by Eq (2) which is in terms of Card 1/6

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The Arresting of Suspended Particles Flowing Isothermally Through a Bundle of Tubes Coated with Viscous Fluid

> the ratio of the quantity of material trapped to the average content of the material in the flow at inlet to the bundle. The tests made with different constructions of tube bundles were carried out with dust of 12 to 18 microns at a rate of flow of 16 m/sec. The distribution of the effectiveness of dust-arresting by tubes in different rows is plotted in Fig 2. The second row of tubes was always the most effective because of the local increase in the particle content of the flow immediately ahead of them. The increase was due to the passage of the flow over the first row. In general, the second, third and presumably successive rows are approximately as effective as the first one. In order to determine the influence of the main physical factors on the process of dust separation, tests were made with the first model. It had three bundles, each comprising four rows of tubes; the rates of flow ranged from 2 to 30 metres per second, with particle sizes ranging from 0 - 12 to 75 - 90 wicrons, and tube diameters of 5 and 10 mm. Test results obtained at various rates

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The Arresting of Suspended Particles Flowing Isothermally Through a Bundle of Tubes Coated with Viscous Fluid

of flow are plotted in Fig 3. It will be seen that within the range of 8 to 30 m/sec there is very little increase in the efficiency of separation of dust by the first two rows, but a somewhat greater improvement in the third and fourth rows. The influence of dust particle size on the effectiveness of separation at various rates of flow is plotted in Fig 4. The curves show that larger particles promote separation, particularly by tubes in the first two rows. The relative effectiveness of successive rows with different particle sizes is discussed. Doubling the diameter of the tube was found to slightly decrease the amount trapped by the tubes of the first and second rows. The resistance of the bundles of tubes related to the rate of flow in the narrow section between tubes for various values of Reynolds number, number of rows and pitch of tube, are plotted in Fig 5. The relationship between the resistance and Reynolds number is not clearly expressed. The factors governing the resistance are discussed. It is

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The Arresting of Suspended Particles Flowing Isothermally Through a Bundle of Tubes Coated with Viscous Fluid

usually considered that the Stokes' number alone determines the process of separation when a dusty flow passes over a cylinder. It is here shown that the Froude number also has an effect, particularly for the first two rows. Fig 6 indicates that all the experimental points can be plotted on a single curve if the efficiency of arresting is plotted as function of a complex that includes the Stokes, Froude and Reynolds numbers in the correct proportions. It will be seen from Fig 7 that the process of separation on the third and fourth rows can be described with sufficient accuracy by the Stokes' number. Fig 8 shows curves of the efficiency of arresting for various rates of flow. This graph may be used to make calculations on slag-arresting by tube bundles with a square arrangement; there can be any number of rows of tubes, their spacing across the flow being 2 - 4 diameters, and in line with the flow 2 - 3 diameters. The efficiency of arresting is given by expression (5), for particles of a particular size; when the flow contains a wide range of particle sizes, expression (7)

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The Arresting of Suspended Particles Flowing Isothermally Through a Bunale of Tubes Coated with Viscous Fluid

> should be used. Ash-removal factors for various twoand four-row arrangements of tube bundles are plotted in Fig 9 as functions of gas speed and tube arrangement. This graph also can be used for practical calculations. The ash-removal by various tube arrangements was calculated for a flow of air containing dust of the particle size distribution found at the inlet to the induceddraught fan of a power station burning Zakamsk coal. In this case there is no evident advantage to be gained by leaving a clear space between successive bundles of tubes. It is concluded that twin tubes should not be used in this type of ash arrester. In general, these ash arresters can be very effective in a cyclone furnace, and cause only a small increase in the head of draught. In particular, if four bundles, each comprising two rows, are fitted beyond the cyclone chamber the ash-removal factor can be increased from 80 to 88.5%, or from 85 to 91.4% with a draught increase of approximately 45 mm of

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#### CIA-RDP86-00513R001032810002-4

28(5) 05757 AUTHOR 3: Maslov, V. Ye., Marshak, Yu. L. SOV/32-25-10-46/63 TITLE: On the Initial Quantity of Dust in Working With Models of Dust Collectors PERIODICAL: Zavodskaya laboratoriya, 1959, Vol 25, Nr 10, pp 1258-1259 (USSR) ABSTRACT : For the purpose of investigating a separation of aerosols in models of various dust-collecting devices a simple and reliable method was worked out, in which the dust-collecting surface is coated with a viscous liquid (e.g. vaseline). The quantity of dust deposited on this surface may be determined according to various physico-chemical methods (Ref 1). As the minimum size of the dust particles absorbed by a device is determined by the dimension of the latter, experiments must be carried out with the finest particles in order to attain greater efficiency of the device. Several experiments (Ref 2) showed that greater quantities of fine dust may be absorbed on a viscous surface than was stated in a paper by N. F. Dergachev (Ref 1). In order to solve this problem experiments were carried out with a model with a tube having Card 1/2a diameter of 50 mm and a length of 200 mm with various

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05757 sov/32-25-10-46/63 On the Initial Quantity of Dust in Working With Models of Dust Collectors quantities of a fine (0-12  $\mu)$  dust of  $K_2 \text{Cr}_2 \text{O}_7$  at a tangential air flow velocity of 7 m persecond. It was found that a variation of the quantities of dust from 9.6 to 205 mg (Fig, diagram) influences neither the total degree of separation nor the distribution of the deposited particles along the model. Thus, when working with fine dust  $(0-12 \mu)$ , the initial quantity may be much higher than previously stated. There are 1 figure and 3 Soviet references. ASSOCIATION: Vsesoyuznyy teolotekhnicheskiy institut (All-Union Thermal Engineering Institut) Card 2/2

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## CIA-RDP86-00513R001032810002-4

MASLOV, V.Ye., kand.tekhn.nauk

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Heat of combustion of the volatile matter of Kuznetsk Basin open pit mine coals and its effect on the mechanical underburning. Teploenergetika 9 no.5:20-22 My '62. (MIRA 15:4)

1. Vostochnyy filial Vsesoyuznogo teplotekhnicheskogo instituta. (Kuznetsk Basin--Coal) (Combustion)

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MASLOV, V.Ye., kand.tekhn.nauk; SAL'KOV, P.G., kand.tekhn.nauk; FROTSAYLO, M.Ya., inzh.; SMORGUNOV, M.P., inzh.; KROTOV, V.I., inzh.; OSTROMOV, A.M., inzh.; SHESTAKOV, V.M., inzh. Experience in burning brown coals in wet-bettom furnaces with shaft-type

impact mills. Teploenergetika 10 no.2:15-19 F '63. (MIRA 16:2)

1. Vostochnyy fillal Vsesoyuznogo teplotekhnicheskogo instituta, Chelyabinsk, Krasnoyarskenergo i Vsesoyuznyy nauchno-issledovatel'skiy teplotekhnicheskiy institut.

(Lignite) (Furnaces) (Boilers)

APPROVED FOR RELEASE: 06/14/2000

MASLOV, V.Ye., kand. tekhn. nauk; PROTSAYLO, M.Ya., inzh.; OSTROUMOV, A.M., inzh. Study of dust ourrente in the embrasure of a shaft mill operating on Kanak-Achinak lignite. Teploenergetika 11 no.11:34-39 N '64. (MIRA 17:12) 1. Vostochnyy filial Vsesoyuznogo teplotekhnicheskogo instituta, Chelyabinsk, i Krasnoyarekaya TETs-1.

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### CIA-RDP86-00513R001032810002-4

MASLOV, Ye., inzh.

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How to plow under the stubble remnants of corn. Zemledelie 25 no. 10:77 0 '63. (MIRA 16:11)

1. Korochańskowe ob"yedineniya "Sel'khoztekhnika", Belgorodskoy oblasti.

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L 51117-65 Ex7(1)/EWA(h) Peb ACCESSION NR: AP5015496 10	
AUTHOR: Klyuchantsev, S. V.; Maslov, Ye. A.	
TITLE: A regulator for the collector current and for the voltage at the collector- emitter junction in a transistor. Class 21, No. 170087	
SOURCE: Byulleten' izobreteniy 1 tovarnykh znakov, no. 8, 1965, 27-28	
TOPIC TAGE: voltage regulator, junction transistor	
ABSTRACT: This Author's Certificate introduces a regulator for the collector cur- rent and for the voltage at the collector-emitter junction in a transistor. The device is designed for use in industrial installations for measuring the parameters	
device is designed for use in industrial installations of the unit contains a voltage of transistory, connected in a common emitter circuit. The unit contains a voltage	

device is designed for use in industrial installations for measurements a voltage of transistor// connected in a common emitter circuit. The unit contains a voltage regulator and an automatic control unit for the collector current. The device is designed for improved regulating accuracy. The automatic collector current regulator contains a pulse generator which is connected to two controlled rectifiers. These rectifiers are connected to the addition and subtraction inputs of an n-place reversible counter. The counter is connected through an analog converter and a

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AUTHOR:	131-59-1-18/23 Esibyan, E.M., Engineer, and Easlov, Ye.F.
TITLE:	A Clamping Device for the Welding Regulator (Fiksator k svarochnomu regulyatoru)
PERIODICAL:	Svarochnoye Proizvedstve, 1958, Nr 1, p 40 (1908)
ABSTRACT:	Regulators of welding devices for alternating turrent, type ASTE and STAN, often lose their core-screw during the work- ing process. This fact explained by vibration, has a ne- gative effect on the welding process, causing the nges in the welding turrent. This deficiency was eliminated with the aid of a clamping device fixed on the regulator handle, fastening the handle in a desired position. At present nearly all welding regulators at the Baku plant imenitie- tyab'rskaya Revolyutslya are equipped with clamping devices of this design. There is 1 figure.
SSOCIATION:	Bakinskiy zavod imeni Oktyabr'skoy revolyuttii (The Baku "Plant imeni Oktyabr'skaya Revolyutsiya).
VAILABLE:	Library of Congress
ard 1/1	1. Welding-Regulators-Control

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MASLOV, Ye. I., DOCENT DOC TECH SCI Dissertation: "Fundamentals of the Grinding Theory of Metals." 25 May 49 Moscow Machine Tool Inst imeni I.V. Stalin. SO Vecheryaya Moskva Sum 71

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810002-4"

SHVEDOV, V.P.; MASLOV, Ye.I.

R.

Determination of the composition and stability constants of complex compounds by the electromigration method. Part 1: Determination of the composistions and stability constants of exalate complexes of zirconium. Radiokhimia 4 no.4:427-434 '62. (MIRA 15:11) (Zirconium compounds)

(Oxalates)

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### CIA-RDP86-00513R001032810002-4

MASLOV, Ye. N., Docent

Candidate of Technical Sciences

Heview of N. F. Baranets, Shlifoval'nyy krug i ego vybor (The Grinding Wheel and Ite Selection), Moscow, 1943. Stanki I Instrument, 15, No. 6, 1944.

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1.	MASLOV, E. N.	
2.	USSR (600)	
7.	Physical Nature of Specific Pressure of Cutting, <u>Machine Tools and Instruments</u> , <u>No. 9</u> , Sep 1948	
		* <b>x</b> -
		€Ľ.
9.	Compilation of Information of the USSR Machine and Machine Tools Industry	
-	Contained in Soviet Publications. ATIC. Restrictes.	
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<sup>A</sup>ussian men of science founders and originators of metal=cutting studies. DLC: TN4.V4
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