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RYAZANOV, V.S.; BUTUZOVA, V.P.; SIMONOV, G.V.; GOL'DSHTEYN, A.M.; KORNEYEV, N.A. CAMOYLOV, Ya.M.; LYSYKH, I.V.; KHMEL'NITSKIY, G.S.; KRUTIKOV, Ye.B.; ANTONOV, M.F.; DOBROSEL'SKAYA, T.M.

> [Recommendations for the establishment of schemes for planning farming areas] Rekomendatsii po sostavleniiu skhem planirovki sel'skokhoziaistvennykh raionov. Moskva, Stroiizdat, 1965. 151 p. (MIRA 18:7)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy 1 proyektnyy institut po gradostroitel'stvu. 2. TSentral'nyy nauchno-issledovatel'skiv i proyektnyy institut po gradostroitel'stvu, Moskva.

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ARKHANGEL'SKIY, P.Ye., inzhener; ARKHIPOV, P.P., inzhener; VAS'KOV, M.P., agronom; ZHMUDSKIY, D.A., arkhitektor; IVANOV, A.P., arkhitektor; KIBI-REV, S.F., arkhitektor; KRYLOV, N.V., inzhener-arkhitektor; KULAKOV, D.V., arkhitektor; MARTYNOV, P.F., inzhener; NIKIFOROV, V.S., inzhener: NOSKOV, B.G., arkhitektor; PETUKHOV, B.V., kandidat tekhnicheskikh nauk; RUDANOV, M.L., kandidat tekhnicheskikh nauk; RYAZANOV, V.S., kandidat arkhitektury; SOKHRANICHEV, N.S., inzhener-arkhitektor; TARASOV, D.I., arkhitektor; SHMIDT, N.E., kandidat arkhitektury; KHOMUTOV, Ye.Ye.. arkhitektor; VOL'FOVSKAYA, V.N., redaktor; FEDOTOVA, A. F., tekhnicheskiy nedaktor. [Handbook on the construction of farm buildings] Spravochnik po sel'skokhoziaistvennomu stroitel'stvu. Avtorskii kollektiv: P.E.Arkhangel'skii i dr., avtor-sost. N.V.Krylov. Moskva, Gos.izd-vo sel'khoz.lit-ry. Vol.3 1955 843 p. (Farm buildings) (MIRA 9:6)

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	34388 S/682/61/000/003/002/008 D234/D302	
(.) 191 AUTHORS:	Bodner, V.A. and Ryazanov, Yu.A.	
TITLE:	On the problem of synthesizing structural diagrams of self-tuning systems of control of turbo-jet en- gines	
SOURCE:	Avtomaticheskoye regulirovaniye aviadvigateley; sbornik statey. no. 3, Moscow, 1961, 33 - 50	
parameters of c engine operatin structural diag the correcting under all fligh	The subjects treated are effect of flight conditions 1 characteristics of the engine; synthesis of optimum ontrol devices; analysis of the control system of the ag under variable external conditions; synthesis of grams of self-tuning units varying the parameters of devices. It is stated that optimum transition process at conditions can be obtained by varying the parameters ing circuits of regulators of the number of revolutions ature. The choice of optimum parameters of the correc-	
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S/682/61/000/003/002/008 Do the problem of synthesizing ... D234/D302 Ting devices can be realized with the aid of special self-tuning units containing functional elements and search elements; these units are practically identical for regulating circuits of both the number of revolutions and gas temperature. (Abstractor's note: The authors use the abbreviation TRDF, which has been translated 'turbo-jet engines' There are 12 figures and 2 tables.

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ACC NR: AP6029037 SOURCE CODE: UR/0413/66/000/014/0053/0054	
INVENTOR: Ivanov, Yu. K.; Ryazanov, Ye. M.	
ORG: none	e de la comercia de l La comercia de la come
TITLE: Method of preventing an erratic arc. Class, 21, No. 183854	
SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 53-54	
TOPIC TAGS: arc welding, metal welding, inert gas welding	
ABSTRACT: This Author Certificate introduces a method of preventing an erratic arc in welding of thin articles (where the distance between clamps is equal to the width- of the weld. To improve the quality of welds, the clamps, which are made out of material with a resistivity lower than that of the welded material, are covered with a $40-120-\mu$ coat of material with a resistivity several times higher than that of the welded material. In a modification of the above method, the clamps are made entirely of a material with a resistivity several times higher than that of the material welded. [TD]	and the second secon
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	AUTHOR:	Korobeynikov, V.P. and Ryazanov, Ye. V. 40-22-2-17/21 (Moscow)
	TITLE:	The Construction of Rigorous, Discontinuous Solutions for the One-Dimensional Equations of Gas Dynamics and Their Applications(Postroyeniye tochnykh razryvnykh resheniy urav- neniy odnomerne, gazodinamiki i ikh prilozheniya)
	PERIODICALS	Prikladnaya matematika i mekhanika,1958,Vol 22,Nr 2, pp 265-268 (USSR)
	ABSTRACT:	During the last time discontinuous solutions obtained parti- cular interest in the investigation of one-dimensional motions of real gases in presence of shock waves. Only few similar solutions could be found till now in this case. However, new kinds of solutions can be constructed with the aid of a rigorous solution given by Sedov. This solution of Sedov has the form :
		$\mathbf{v} = -\frac{1}{\mu \nu} \frac{d\mu}{dt} \mathbf{r} ; \mathbf{p} = \mu \delta \nu \left\{ \mathbf{C} + \frac{\nu(\delta'-1)}{2(\mathbf{s}+2)} \mathbf{BP}(\mathbf{x}) \right\}$
		$g = \mu^{\nu} \xi^{s} P'(x); \frac{d\mu}{dt} = \pm \mu^{2} (A + B \mu^{\nu} (f^{-1}))^{1/2}$
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1. Gas flowMathematical analysis 2. Shock wavesMathematical analysis	SUBMITTED:	crdinate, furthermore it holds $x = \xi^{s+2}$. The author applies this solution in order to construct rigorous solutions for the case when the shock wave moves in a resting gas with variable density under constant pressure. Here at first the functions $P(x)$ and $r(t)$, which denotes the radius of the shock wave, are calculated. From these values the other magnitudes interesting for the flow can be de- termined. There are 3 references, 2 of which are Soviet, and 1 American. October 22, 1957
,我们就是你们的你们,你们们就是你们的你们,你们们的你们,你们们就是你们的你们,你们们们们的你们,你们们们不是你们的你们,你们们不是你们的你们就能能能做了。""你		1. Gas flowMathematical analysis 2. Shock wavesMathematical analysis





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Korobeynikov, V. P., Ryazanov, Ye. V. SOV/20-124-1-13/69
On the Solutions of Equations of Magnetic Gas Dynamics in the Case of Vanishing Temperature Gradients (O resheniyakh uravneniy magnit- noy gazodinamiki pri nulevom gradiyente temperatury)
Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 1, pp 51-52 (USSR)
The authors investigate one-dimensional motions of an electrically conductive perfect gas with cylindrical and plane waves. The con- ductivity of the gas is assumed to be infinite, and viscosity is disregarded. The magnetic field is vertical to the trajectories of the gas particles. In the cylindrical case the magnetic lines of force can be straight lines which are parallel to the symmetry axis, concentric circles with their center on the axis, or also helical lines. The equations of motion and their particular solutions are explicitly written down and explained. The solutions obtained are also suited for the construction of a solution with shock waves. In conclusion, an equation is given for the motion of shock waves. There are 2 Soviet references.



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10 (2) AUTHOR:	Ryazanov, Ye. V.	SOV/20-126-5-11/69
TITLE:	Temperature Gradient Is Zero (in a Gravitating Gas When the Primery tochnykh resheniy zadach In v gravitiruyushchem gaze pri
PERIODICAL:	Doklady Akademii nauk SSSR, 19 (USSR)	959, Vol 126, Nr 5, pp 955 - 957
ABSTRACT :	adiabatic motion of stellar ga who presented also exact solut tions. In the attempt to apply particular phenomena occurring ed solutions of equations of m These solutions are shortly di author of this article investi- perature gradient is zero with of the gas and deduces exact a similar to that of Sedov. This	aw of similarity to the unsteady as masses was set by L. I. Sedov, dons of the corresponding equa- y the law of similarity to some g in stellar eruptions he obtain- notion which describe explosions. Iscussed in the introduction. The gates the case in which the tem- hin the range of disturbed motion solutions of this problem in a way s kind of flow is termed "homother
Card 1/3	mal". Similar motions were inv	vestigated already earlier (Refs

Examples of Exact Solutions of the Problems Concerning SOV/20-126-5-11/69 the Propagation of Explosion Waves in a Gravitating Gas When the Temperature Gradient Is Zero

3-6). The one-dimensional homothermal $(\Im T/\Im r = 0)$ motion of an ideal gas in the natural field of gravity in the case of spherical symmetry is first described by the system of equations (1). It is then assumed that at the instant of time t = 0 a shock wave is propagated from the center of gravity in the resting gas (4), and it is shown that (1), taking the conditions (4) into account, has the exact solution (5) which is similar to that of Sedov. The functions $r_2(t)$, c(t) and $\mathbf{g}(t)$ are written down (\mathbf{r}_2 denotes the radius, c the velocity of propagation of the shock wave) as well as an expression for the total energy

contained between the radii r' and r". Finally, the difference between the total energy of the moving gas within the sphere limited by the shock wave and the energy contained primarily in the very volume (at t=0) is written down (7) and special cases are investigated. There are 6 Soviet references.

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Examples of Exact Solutions of the Problems Concerning SOV/20-126-5-11/69 the Propagation of Explosion Waves in a Gravitating Gas When the Temperature Gradient Is Zero ASSOCIATION: Matematicheskiy institut im. V. A. Steklova Akademii nauk SSSR (Mathematical Institute imeni V. A. Steklov of the Academy of Sciences, USSR) PRESENTED: March 2, 1959, by L. I. Sedov, Academician SUBMITTED: February 23, 1959 Card 3/3

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10(7) AUTHOR:	Ryazanov, Ye. V.	sov/20-126-6-19/67
TITLE:	Some Exact Solutions of the Equations of Dynamics in the Presence of Forces of and With Zero Gradients of Temperature (M resheniya uravneniy magnitnoy gazodinamik sobstvennogo tyagoteniya i nulevogo gradi	lekotoryye tochnyye j pri nalichii sil
PERIODICAL:	Doklady Akademii nauk SSSR, 1959, Vol 126 (USSR)	
ABSTRACT: Card 1/2	When clarifying the problems arising with gas masses, interest is devoted to the in motions in the presence of forces caused and a magnetic field. The adiabatic moti- had been investigated in other papers (R present paper supplies some exact soluti- dynamics, which describe one-dimensional of gravitating ideal gases in cylinder s gradient is assumed to be equal to zero. here the equations of magnetic gas dynam and three different types of particular	by intrinsic gravity on of gravitating masses efs 1, 2 and 3). The ons of equations in gas nonsta tionery motions ymmetry. The temperature For the case assumed ics are given in (2),

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	With the solutions obtained here it is possible to construct the flow, and this is done for an example with solutions of the third type. The author expresses his gratitude to L. I. Sedov, V. P. Korobeynikov, and A. G. Kulikovskiy for advice given. There are 8 Soviet references.
ASSOCIATION:	Matematicheskiy institut im. V. A. Steklova Akademii nauk SSSR (Institute of Mathematics imeni V. A. Steklov of the Academy of Sciences, USSR)
PRESENTED:	March 17, 1959, by L. I. Sedov, Academician
SUBMITTED:	March 9, 1959
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16.7600	77987 Sov/40-24-1-15/28
AUTHORS:	Korobeynikov, V. P., Ryazanov, Ye. V. (Moscow)
TITLE:	Solutions of Equations of One-Dimensional Magneto- Hydrodynamics, and Their Application to Problems of Spreading-Wave Shocks
PERIODICAL:	Prikladnaya matematika i mekhanika, 1960, Vol 24, Nr 1, pp 111-120 (USSR)
ABSTRACT:	Various cases are presented in which the equations describing the plane or cylindrically symmetric motion of an electrically conducting gas given by:
	$-\rho \frac{dv}{dt} = \frac{\partial p^*}{\partial r} + \frac{2(v-1)h_2}{r}, \qquad -\frac{1}{\rho} \frac{d\rho}{dt} = \frac{\partial v}{\partial r} + \frac{(v-1)v}{r}$ $-\frac{1}{2} \frac{dh_2}{dt} = h_2 \left(\frac{\partial v}{\partial r} + \frac{(v-1)v}{r}\right) - r^{1-\nu}h_2^{\nu} \frac{\partial}{\partial r} \left(\gamma_{in}r^{\nu-1} \frac{\partial h_2^{\nu}}{\partial r}\right) \qquad (1.1)$
ard 1/9	$-\frac{1}{2}\frac{dh_{\varphi}}{dt} = h_{\varphi}\frac{\partial v}{\partial r} - h_{\varphi} v_{t} \frac{\partial}{\partial r} \left[v_{m}r^{-1}\frac{\partial}{\partial r} \left(rh_{\varphi} v_{z}\right) \right]$

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Solutions of Equations of One-Dimensional Magneto-Hydrodynamics, and Their Application to Problems of Spreading-Wave Shocks

$$-\frac{dp}{dt} = \gamma p \left(\frac{\partial v}{\partial r} + \frac{(v-1)v}{r}\right) - 2(\gamma-1)v_m \left\{\frac{1}{r^2} \left[\frac{\partial}{\partial r} (rh_{\varphi}^{V_z})\right]^2 + \left(\frac{\partial h_z^{V_z}}{\partial r}\right)^2\right\} (1.2)$$
$$\left(p^* = p + h, \quad h = h_z + (v-1)h_{\varphi}, \quad h_z = \frac{H_z^2}{8\pi}, \quad h_{\varphi} = \frac{H_{\varphi}^2}{8\pi}\right)$$

can be integrated. Infinitely conducting stationary motions; unsteady automodel and non-automodel motions with shocks; motions in which the velocity depends linearly on r; isothermal flows, as well as the problem of an impulsive gas discharge are considered. The research done here is a continuation of prior work done by the authors both jointly and independently. Here, H_z and H_{cp} are the components of the magnetic

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Solutions of Equations of One-Dimensional Magneto-Hydrodynamics, and Their Application to Problems of Spreading-Wave Shocks

77987 S0V/40-24-1-15/28

for a medium at rest. The subscript 1, denotes the quantities in the undisturbed flow; the subscript 2, their values behind the shock; u is the shock speed and $r_2(t)$ is its radius. For the stationary case with $\nu_m = 0$ and $\nu = 2$, the authors give five integrals:

 $p = c_1 \rho^{\gamma}, \quad \rho vr = c_2, \quad h_z = c_3 r^2 \rho^2, \quad h_z = c_4 \rho^2, \quad \frac{r^2}{2} + \frac{\gamma \rho}{(\gamma - 1)\rho} + \frac{2h}{\rho} = c_6 \quad (2.1)$

where c_1, \ldots, c_5 are arbitrary constants. This was also solved by K. Stanyukov (Zh. E. T. F., Vol 36, Nr 6, 1959). There exist two_{*}asymptotic curves on which $\partial v/\partial r = \infty$ and $v = a = \sqrt{(\gamma p + 2h)/\rho}$, i.e., the gas speed is equal to the total sound speed. A flow is possible only in the region between the two cylinders corresponding to these curves. Let r_0 and r_1 be the radii of these limiting circles.

Card 4/9

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Solutions of Equations of One-Dimensional Magneto-Hydrodynamics, and Their Application to Problems of Spreading-Wave Shocks

77987 SOV/40-24-1-15/28

In a subsonic (supersonic) setup, as r varies from r_o up to r_1 the speed decreases (increases) to a minimum (maximum) and then increases (decreases) to a . authors note two algebraic first integrals of the system The for the case of finite conductivity which has not been completely solved as yet. The isothermal steady case for $\nu_{\rm m} = 0$ and $\nu = 2$ leads to one ordinary differential equation which can be integrated when = 0. For V = 2, $h\varphi$ $\nu_{\rm m}$ = 0, it is shown that the problem separates into one which is purely hydrodynamical and one for determining the magnetic pressure. For a strong blast along a line in a perfect gas, the motion of the shock is similar to that in ordinary gas dynamics. Next considered is the motion of piston moving in a gas at rest with a speed

Card 5/9

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Solutions of Equations of One-Dimensional Magneto-Hydrodynamics, and Their Application to Problems of Spreading-Wave Shocks

77987 S0V/40--24-1-15/28

 $U = A_1 t^n$, the piston radius being zero and the other flow quantities being proportional to negative powers of r, initially. For $\nu_m = 0$, the problem is

automodel, if these powers and n obey a given relation and the solution can be obtained by numerical methods (given by the first author: Dokl. An SSSR, Vol 121, Nr^µ, 1958). Several graphs are given depicting the dependence of the flow quantities on the space variable. A condition is also given insuring the automodelness of the problem for finite conductivity. When the velocity is a linear function of the radius, a solution for adiabatic gas flows without shocks was obtained by Kylikovskiy (Dokl. AN SSSR, Vol 114, Nr 5, 1957). For arbitrary γ , a solution is written down containing an arbitrary function of the space variable for the axisymmetric cass. For $\gamma = 2$ an analogous solution is written which was derived by the second author (Priklad. mat.

Card 6/9

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Solutions of Equations of One-Dimensional 77987 Magneto-Hydrodynamics, and Their Application SOV/40-24-1-15/28 to Problems of Spreading-Wave Shocks

> 1 mekh., 1959, Vol 23, Nr 1) in terms of two arbitrary functions of the space variable. The authors state that these two solutions can be used, by suitably choosing the arbitrary constants and functions, to connect the flow across a shock front. This was carried out in several cases in Priklad. matem. 1 mekh., 1958, Vol 22, Nrs. 2, 5. Here, the authors discuss in detail the solution for arbitrary γ for the problem of a strong shock (in the gas dynamical sense) starting from the conditions across a shock front given by G. Whitham (J. of Fluid Mech., 4, pp 337-360, 1958). The flow quantities and piston radius are then found for the compression of gas by a piston. In a previous paper (Dokl. AN SSSR, Vol 124, Nr 1, 1959), the authors showed that exact solutions exist for isothermal, infinitely conducting gases depending on an arbitrary function of the space variable or time in which the velocity also was a certain linear function of the space variable. The problem with shocks was solved using a

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Solutions of Equations of One-Dimensional Magneto-Hydrodynamics, and Their Application to Problems of Spreading-Wave Shocks

77987 sov/40-24-1-15/28

solution containing an arbitrary function of the time. For isothermal flows in which $\nu = \nu_m(t)$, one can find particular solutions of (A) when h_z or h_{ϕ} is absent and

which contain arbitrary constants. Starting from a particular solution involving an arbitrary function of the space variable, the authors discuss in detail and construct the solution across the shock. This solution is then used to obtain an exact solution of the following problem of an impulsive gas discharge: At time t = 0, there is a cylindrical column of gas whose assumed high temperature makes the gas infinitely conducting; a magnetic field with given intensity is assumed to be "fixed" in the column and directed parallel to the cylinder axis; the initial density is constant at t = 0 and the total pressure in the gas is assumed to be constant; at t = 0 a current begins to flow through the column in the axial direction according to a given law.

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Theory of Point Detonation

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much necessary data on the nature of the unsteady motion developed during a detonation. It should be mentioned that this theory may also be applied to problems of the flow of a superhigh-speed gas stream around blunt-nosed slender bodies and to problems of shock-wave propagation during electrical discharges and detonation of fine metal wires through which a pulsed current is passed. Over the last few years many works published mainly in various Soviet and non-Soviet journals have dealt with investigations of the motion of a gas during point detonations. In view of the absence of a complete presentation of the point-detonation theory, which is important in investigating various problems of gas dynamics, the authors of the book have endeavored to give a systematic presentation of its principal conditions and the more important results of research employing this theory. The book contains eight chapters. Chapter I sets forth general equations of one-dimensional unsteady motions and some mechanical and thermodynamic relationships. Here the problems of point detonation are formulated and the main results of studies dealing with this problem are reviewed. In Chapter II self-

Card 2/14

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Theory of Point Detonation

SOV/5711

simulating [automodeling] problems of detonation in an ideal gas having constant and variable initial density are reviewed, and the solution is given to the problem of the motion of a gas expelled by a piston. The approximation method of calculating problems which are not self-simulating is given in Chapter III. This method is based on the linearization of a gas-dynamics equation about a self-simulating solution. The stated method is used to solve point-detonation problems by taking into account counter-pressure and density variation with altitude, and also, to solve problems of the motion of a gas expelled by a piston. The application of the point-detonation theory to the aerodynamics of thin bodies is reviewed. Chapter IV contains the results of the numerical solution of a non-selfsimulating spherical-charge detonation problem, and a comparison of these results with some experimental data. Also examined in Chapter IV are the problems of the asymptotic behavior of the solution near the detonation center and the laws of shock wave attenuation at great distances. In Chapter V approximation formulas are derived for calculating the parameters of spher-

Card 3/14

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Theory of Point Detonation

SOV/5711

ical, cylindrical, and plane detonation waves. In Chapter VI a method is given for setting up some exact solutions which describe the one-dimensional unsteady flow of a gas with shock waves. The application of this method to detonation phenomena is discussed. The aforementioned chapters review problems of adiabatic motions of an ideal gas with constant heat capacities. The last two chapters include problems formulated on the basis of other assumptions. Thus, in Chapter VII, problems of powerful detonation in an ideal gas under conditions of nonadiabatic motion in a disturbed zone are studied. One of the methods for calculating radiation is shown here. Chapter VIII deals with a number of problems connected with point detonation in a slightly compressible uniform medium, e.g., water. An investigation of the general characteristics of solutions to problems concerning powerful detonations is given for a broad class of self-simulating media. The book does not deal with questions connected with the calculation of gas viscosity, the effects of gravity, or ionization and dissociation processes since there are still many unsolved problems

Card 4/14

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Theory of Point Detonation

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in this area. A number of results obtained by the authors and published earlier in journal articles are included. Many of the subjects covered in the book were topics in a series of reports delivered at seminars on hydrodynamics at the Moscow State University. A bibliography of Soviet and non-Soviet literature is given at the end of the book. The book was written as follows: Chapters IV, V, Section 3 of Chapter II, and Section 6 of Chapter III were written by V.P. Korobeynikov; Chapters III and VIII, by N.S. Mel'nikova; Chapters II and VI, by Ye.V. Ryazanov; Chapter I, by Korobeynikov and Mel'nikova; Chapter VII, by Korobeynikov and Ryazanov; and Secians 2, 6, 8, and 9 of Chapter II, by Mel'nikova and Ryazanov. The authors participated jointly in compiling the problems reviewed in Sections 3, 4, and 5 of Chapter III, Sections 2 and 6 of Chapter IV, and Section 1 of Chapter VIII. It should be mentioned that Sections 3, 4, 5, 6, 7, and 9 of Chapter VIII were written by N.S. Mel'nikov and N.N. Kochina mainly on the basis of their articles. The authors thank Leonid Ivanovich Sedov for hisvaluable remarks concerning many of the problems

Card 5/14

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reviewed in the book; V.P. Karlikov, for his help of Chapter III; and Yu.L. Yakimov, for submittin Section 8 of Chapter VIII and for his valuable com 74 references: 57 Soviet, and 17 English.	g the material for
TABLE OF CONTENTS:	
Foreword	6
Concerning the Symbols Used	9
Ch. I. Principal Equations and the Formulation of P	roblems 11
 The point-detonation concept Differential equations of one-dimensional motion 	11
3. Characteristics of systems of differential equations	
one-dimensional motion	21
Card 6/14	
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s/207/63/000/002/016/025 EPR/EPA(b)/EWT(1)/EWG(k)/BDS ASD/ L 17038-63 AFFTC/ESD-3/AFWL Ps-4/Pd-4/Pz-4 WW/JHB/TF Karlikov, V. P., Korobeynikov, V. P., and Ryazanov, Ye. V. (Moscow) AUTHOR: Development of the second second second An approximate method for solving explosion problems in certain TITIE: ideally compressible media Zhurnal prikladnov mekhaniki i tekhnicheskov fiziki, no. 2, PERIODICAL: 1963, 132-134 TEXT: During explosions in certain ideal media, like water or water-containing ground, the motion of the liquid near the gaseous cavity agrees with the theoretical calculations of the displacement for the case of an explosion within an incompressible liquid. N. N. Kochina and N. S. Mel'nikova (Ref. 2: DAN SSSR, 1961, vol. 138, no. 2) enumerated the properties which distinguish media having the above-mentioned characteristics. Under such circumstances the compressibility substantially influences the fluid motion only within a relatively narrow region adjoining the shock wave containing large gradients of density, pressure, and velocity. The authors expect that the just mentioned facts are favorable for the existence of an approximate solution of the problem stated in the title. They start at time t = 0 with an instantaneously produced spherical volume of gas within Card 1/2

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An approximate method ...

a compressible medium at rest and of uniform density prior to the explosion. The gas is hot, highly compressed, and has an initial energy E_0 . The motion of the liquid behind the wave front is described by a spherically symmetric system of equations of gas dynamics. The results of the approximate calculations are compared with the exact solution of the automodel explosion problem presented by N. N. Kochina and N. S. Mel'nikova (Ref. 5: PMM, 1958, vol. 22, no. 1). The errors of the approximate results are within 20% of the exact values and should be considered satisfactory. The calculations can be extended to the case when the density of the region in the vicinity of the gas bubble is not constant but, e.g., depends on time.

SUBMITTED: January 31, 1963

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CCESSION NR: A	T5009751	21-4 IJP(c) WW/GS UR/0000/64/004	/000/0033/0041	- 61	
UTHOR: Korobey	nikov, V. P.; Ryazanov	, Ye. V.		84	
TILE: The prop	agation of explosion-i	Induced magnetohydrod	ynamic shock wa	ves	
OURCE: Soveshc iga, 1962. Vop oklady soveshch	haniye po teoretichesi prosy magnitnoy gidrod aniya, v. 4. Riga, Izo	coy i prikladnoy magn Inamiki (Problems In d-vo AN LatSSR, 1964	nitnoy gidrodina magnetic hydrod 33-41	<u>imike.3d,-</u> Iynamics);	
OPIC TAGS: sho amic shock wave	ock wave propagation, a	explosion-induced sha	ock wave, magne		
BSTRACT: The suming that the lynamics, the au conditions impo- infinity. The (shock wave generated b a surface within an e resulting notion can uthors proceed to inte sed at the center of e case of a strong cylin taining only the azimu cal explosion with a c	be described by the grate the system of xplosion at the shoc drical explosion wit	equations of ma equations with k wave front and hin an infinite	gnetohydro- boundary at 1y conduc- d, and a	
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APPROVED FOR RELEASE: 07/19/2001

ALC: NO

CCESSION	NR AM1021935	BOOK EX	PLOITATION		s/
yazanov,	Yu. A.	al cretems (Pro	oyektirovaniye	sistem avtomatiche lus., biblic. 7,50	skogo)0 copies
esign of reguli printe	LLOAMIT AND	w, Mashgiz, 19	53, 310 p. 11	sistem avtomations lus., biblio. 7,50	
TOPIC TA PURPOSE automati mentals criteria of their elements the cont and also	GS: automation, AND COVERAGE: T c control. In a of analysis, the of optimality, parameters asso s are discussed. trol system. The o can be used by	his book is dev ddition to a br problems of sy selecting eleme ociated with the Special atten book is inten students in ma	noted to problem ief presentat Anthesizing co ents of the co static and d tion is given	ems of designing sy ion of the theoreti ntrol systems based ntrol system and de ynamic characterist to compatibility of lists designing con ; institutes.	termination ics of these
TABLE O	F CONTENTS [abri	dged]:			
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Bibliography 306	235	patibility of e	lements of	
SUB CODE: CP	SUEMITTED: 23Aug63	NR REF S	50V: 018	
OTHER: 002	DATE ACQ: O6Jan64			
.Card 2/2				



"APPROVED FOR RELEASE:	07/19/2001	CIA
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A-RDP86-00513R001446320013-7

AUTHOR: Belkin, Yu. S.;	Bodner, V. A.; Getsov, L. N.	; Mart'yanova, T. S.; Ryazanov,
<u>u. A.</u>		
RG: none		13
		Bt.
TITLE: Adaptive systems	for the optimization work reg	gimes and transient processes in
a turbojet engine 27)		
COUPCE: Veccourrant kor	Ferenteiva no teorii i nrakt	ike samonastraivayushchikhsya
sistem. 1st. 1963. Samona	straivavushchivesva sistemy	(Adaptive control systems); trudy
	-vo Nauka, 1965, 296-308	
TOPIC TAGS: optimal auto ADAPTIVE CONTROL	matic control, turbojet engin	ne, thrust optimization, SELF:
	analysis of an adaptive system	em to optimize and control vari
ous parameters of a turbo	jet engine is presented. The	e equations of the system are
written out in detail and	numerical data are tabulated	d. The analysis was performed us-
ing analog simulation and	the turbo-compressor, the	resented. The control parameters inlet and afterburner tempera-
tures and the turbine pre	ssure gradient. The control	inputs considered were the main
fuel consumption, the aft	erburner fuel consumption, an	nd the nozzle cross section. Opic
art. has: 16 formulas, 7	이 방법 전에 관계하는 것은 것을 알았다. 그는 것은 것은 것	
SUB CODE: 12,13,21/	SUBM DATE: 22Nov65	
Cord 1/1 a.A ,		요즘 이는 것 없는 것 이 방법에서 관계를 통해 생각하는 것이다.

	Pn=4/Po=4/Pq=4/Pg=4/Pk=4/P1=4GS/BC S/0000/54/000/000/0403/0411
ACCESSION NR: AT5004131	
AUTHOR: Bodner, V.A. (Doctor of te	chnical sciences); Ryazanov, Yu. A. BH
TITLE: Application of the <u>theory of in</u> flight control system	variance to the selection of the parameters of a
SOURCE Versouriznove soveshchaniv	e po teorii invariantnosti i yeye primeneniyu v
automatichachich alatomakh 2d Klev	ance in automatic control systems); trudy sovesh-
TOPIC TAGS: flight control system,	nvariance theory, automatic pilot, damping contour
t - fit it a sentenal awatom is invoglight	eory of invariance to the selection of the parameters ed. First, the selection of the parameters of the
damping contour is determined. This perties of an aircraft in yawing motion	A then the authors obtain equations for the selection is
describing the autopilot. From this,	the authors obtain the equation of a closed system an aircraft in yawing motion are obtained. The of the pecularities of accomplishing a self-tuning

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ACCESSION NR: AT50	04131	•	0	
flight control system ar conditions of invariance means of changing the 1 has: 5 figures and 17 fo	nd a description of its o can be maintained, ratio of the damping	s components. Th when the paramet contour by self-tur	e authors conclude ers of the object ch ning devices. Orlg	that the ange, by art.
ASSOCIATION: none				
SUBMUTTED: 24Sep64	ENCL: 00	SUB CODE:	NG, IE, AC	
NO REF SOV: 001	OTHER: 000			



APPROVED FOR RELEASE: 07/19/2001



ACC NR: AP6012220	SOURCE CODE: UR/0032/66/	032/004/0457/0457
WTHOR: Kleyner,	L. M.; Pilikins, L. D.; Ryazanove, A	<u>N.; Flent, O. V</u>
DRG: none		
TITLE: Determinat artensite type	tion of grain size in high strength strength	teels of the B
OURCE: Zavodskay	va laboratoriya, v. 32, no. 4, 1966, 1	157
OPIC TAGS: grain	size, martensitic steel, high streng	th steel
MnO _{ll} which decomp as oxidized at a coling in sir to as carried out wi nd 20 ml H ₂ O, wit	posed method consists in oxidation of at lower than Ac ₁ (600-730°C). The coses above 200°C, evolving atomic oxy temperature of 720 or 600°C for 2 or room temperature, the oxide film was th a reagent consisting of 4 grams Cu h the addition of a surface active su le shows microphotos of the polished e.	xidizer used was gen. A sample 4 hours. After removed. Etching SO1; 20 ml HCl; bafance wathol
UB CODE: 11/ SU	BM DATE: none.	
card 1/198		

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潮田建



ZARING, P.V.; NIKIFOROV, A.M., spetsredaktor, <u>RYAZAHOVAy-A.R.</u>, red.; MAYBORDDA, M.I., khudozhestvenno-tekhnicheskiy red.
[Grosshoopers, locusts, and their control] Seranchovye, kusnechiki i bor'ba s nimi. Moskva, Izd-vo M-va sel.-khoz. SSSR, 1957, 13 p. 22 p. of illus. (MIRA 11:6)
1. Russis (1923- U.S.S.R.) Glavnaya gosudarstvennaya inspektsiya po karantinu i zeshchite restenii. (Locusts--Katernination)

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RYAZANOVA	, F. D.	
	rom: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 186 (USSR)	
Translation f	rom: Relefativity	
, AUTHOR:	Ryazanova, F.D. Heat- treatment Shops (Sta-	
TITLE:	A Statistical Method of Monitoring for Heat thekhakh) tisticheskiy metod kontrolya v termicheskikh tsekhakh)	
DERIODICA	L: Sb. nauchn. tr. Belorussk. politekhn. in t, 1700,	
PERIODIO	t -it on of StallSucur	
ABSTRACT: Card 1/2	in and the results of the introduction of state	

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80 1500

137-58-4-7661 A Statistical Method of Monitoring for Heat- treatment Shops a systematic analysis of which makes possible elimination of scrap and errors, and employment of the statistical data makes it possible to introduce correction factors and to improve the technology. Introduction of SC cut scrap due to overheating and underheating by 75-80 percent and afforded a reduction by one-half in the number of persons employed in the Departments of Technical Control. I. K. 1. Metals--Heat treatment--Quality control 2. Statistical data--Applications Card 2/2

APPROVED FOR RELEASE: 07/19/2001

BR. SEA

	137-58-2-3486	
R YFZ A / Translation fr	om: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 173 (USSR)	
AUTHOR: F	tyazanova, F.D.	
	An Oil Bath With Quick-change Heaters (Maslovanna s bystro- smennymi nagrevatelyami)	
PERIODICAL	Sb. nauchn. tr. Belorussk. politekhnich. in-t, 1957,	
	Nr 57, pp of \mathcal{M} A brief examination is provided of the advantages and short- comings of furnaces (F) for low-temperature tempering [F with electric heating, also small-size shaft-type F and oil baths (B)]. In the treatment practice for bearing parts of ShKh6, ShKh9, and ShKh15 steel subjected to tempering in electric belt F where the difference in air temperature around the heaters and in the middle of the F is held to 10-15°C, a the heaters and in the middle of the F is observed. The elec- reduction of RC from 63-65 units to 60 is observed. The elec- tric oil bath is widely used to assure uniform heating of parts and also because of its ready usability for low-temperature processes in general and because of its simplicity of design and cheapness of manufacture: The author's design of a 12 kw electric oil bath for tool tempering and aging has its heater in	

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and the state of the

137-58-2-3486 An Oil Bath With Quick-change Heaters the lower portion of the non-working space of the F; this provides a uniform temperature throughout the height of the B. A description is offered. The B has a square shape, the dimensions of the inside crucible being 0.65x0.65x0.60 m. Heating of the B to 250° is effected in 2.5-3 hours; adjustment of temperature is by an automatic thermostat. A great advantage of a B of this design is the fact that pre-assembled heaters can be replaced very rapidly (20-30 min) without stopping the tempering process. A.B. 1. Heat treatment -- Equipment 2. Furnaces -- Equipment Card 2/2

APPROVED FOR RELEASE: 07/19/2001



APPROVED FOR RELEASE: 07/19/2001

RYAZANOVA, G.I.

Interrelationship between body weight and wing area in dragonflies. Zool. zhur. 44 no.9:1357-1362 '65. (MIRA 18:10)

1. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta.

The shares of



"A study of the effectiveness of vaccine against influenza", <u>Zhurnal Mikrobiologiv</u>, <u>Enidemiologiy i Immunobiologii</u>, No 10, pp 44-45, 1953.





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网络斜风科

RYAZANOVA, I. N.	Oct 53
USSR/Medicine - Influenza Vaccines	
"Investigation of the Effectiveness of Immunization Against Influenza," I.	N. Ryazanova
Zhur Mikro Epid i Immun, No 10, pp44-46.	
Immunization of the personnel of 2 Moscow industrial plants with 3 polyval	lent anti-
influenza vaccines was without effect by reason of the fact that there was	s no occu nesce
of influenza at the plants in question during 1952-3. The (allantoic) vac	ccine of the
(Moscow) Inst im Mechnikov, the tissue vaccine of the Inst of Virology, e	nd the dry
(powdered) vaccine of the Inst of Exptl Med were used.	
,我们就是我们一个人,我们就是我们的,我们就是我们的,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的。" "我们就是我们的你?""我们就是我们的你?""我们就是我们的你?""我们就是我们的你?""我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们就是我们就是	266T18





8/2789/64/000/052/0060/0066

ACCESSION NR: AT4035465

AUTHOR: Ryazanova, L. A.

TITLE: Characteristics of the temperature regime of the 25-50 km layer

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy*, no. 52, 1964. Rezul'taty* raketny*kh issledovaniy atmosfery* v period MGG i MGS (Results of atmospheric investigations by means of rockets during the period of the International Geophysical Year and International Geophysical Cooperation), 60-66

TOPIC TAGS: meteorology, air temperature, upper atmosphere, stratosphere

ABSTRACT: A study has been made of the characteristics of the temperature regime in the 25-50 km air layer, divided into two parts--25 to 30-35 km and above. The study was further subdivided into these characteristics in the polar zone $(80-60^{\circ})$ and temperate zone $(60-40^{\circ})$. The data used were the results of Soviet and American rocket launchings during the IGY and IGC periods; the total number of launchings analyzed was about 150, approximately evenly distributed between the two zones. It was found that the temperature field of the stratosphere in the latitude range

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ACCESSION NR: AT4035465

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中国政策的建立的新闻的政策和新闻的社会

80-40° in the 25-50 km layer can be divided into the two mentioned sublayers on the basis of the peculiarities in its diurnal and annual variation. The boundary between these sublayers can arbitrarily be considered the lower base of the inversion. Brief changes in temperature are caused for the most part by nonradiation factors. With an increase in elevation above sea level the influence of nonradiation factors decreases. The only exception to this rule is the upper sublayer (35-50 km) of the polar latitudes in the winter season. The cause of the great temperature variability and the presence of a permanent inversion of this layer is unclear. The annual temperature changes in both latitude zones correspond for the most part to the annual variation in the radiation balance. There is a nonconformity in the upper sublayer of both zones: in the polar zone -- a displacement of minimum temperatures from the winter to the autumn months, and in the temperate zone a shift of maximum temperatures from the summer to the spring months. The causes of such displacements are completely unknown. The greatest amplitude of the annual variation in the 30-40 km layer. With an increase

Cord 2/3

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ACCESSION NR: AT4035465 of latitude, that is, from 50 to 80°, the layer of maximum values of the amplitude gradually drops from 40 to 30 km. Orig. art. has: 2 tables. ASSOCIATION: Tsentral'naya aerologicheskaya observatoriya (Central Aerological Observatory)							
				JBMITTED: 00	DATE ACQ: 21May64	ENCL: 00	
				JB CODE: ES	NR REF SOV: 004	OTHER: 000	
			지 않는 것이 같이 있다. 같은 것이 같은 것이 같이 같이 같이 같이 같이 같이 같이 같이 했다. 같은 것이 같은 것이 같이				

s/2789/64/000/052/0067/0074

AUTHOR: Petrov, A. A.; Ryazanova, L. A.

ACCESSION NR: AT4035466

TITLE: Three cases of sudden warming of the Arctic stratosphere

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy*, no. 52, 1964. Rezul'taty* raketny*kh issledovani7 atmosfery* v period MGG i MGS (Results of atmospheric investigations by means of rockets during the period of the Interatmospheric investigations by means of rockets during the period of the International Geophysical Year and International Geophysical Cooperation), 67-74

TOPIC TAGS: meteorology, stratosphere, stratospheric warming, upper atmosphere

ABSTRACT: Three cases of stratospheric warming in the Arctic are discussed in detail (February 1958, January 1960 and January 1961). The phenomenon of sudden warming can be traced to heights not less than 40 km. In January 1960 and February 1958 it was apparently limited to this height, but in 1961 and January 1958 the warming apparently took place at great heights. January 1958 observations at warming apparently took place at great heights. January 1958 observations at fort Churchill revealed that the warming was limited to a height of 65 km. Various data indicate that the process of temperature change begins at great heights and then extends to lower-lying layers. Sudden warmings of the stratosphere are not associated with processes occurring in the troposphere, with the active layer in

Card 1/3

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ACCESSION NR: AT4035466

certain cases at about 40 km and in other cases still higher. These cases of stratospheric warming were associated directly with horizontal movements of stratospheric air masses, but presumably other factors are involved (vertical movements, ozone and solar activity). In 1958 the warming extended over an immense area, more than half the northern hemisphere, which for the most part became considerably warmer than usual and this persisted over a long period. Advectivedynamic processes alone cannot explain all these phenomena. The warming of 1958 differs from the other two in its time and space characteristics and may be exceptional. Exceptionally strong stratospheric warmings in different years all fall in the second half of January or in February, although sudden warmings may occur at any season of the year. Presumably strong sudden warmings must be considered a climatic peculiarity of the stratosphere. It is not excluded that the warming of 1958 is somehow associated with the turbulent solar activity of that period, manifested in strong magnetic storms and auroras. Study of such warmings requires regular rocket launchings in the polar regions, with particularly frequent observations in the second half of January and in February. Orig. art.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320013-7 RYAZANOVA, L.A.; KHVOSTIKOV, I.A. Processes in the stratosphere according to rocket sounding data. Meteor. issl. no.9:58-63 '65. (MIRA 19:1)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320013-7"

AVERKIYEV, M.S., kand. fiz.-matem. nauk; RYAZANOVA L.A., kand. geograf. nauk

> Coefficients of transparency of an ideal atmosphere at different heights and their use for the estimation of the turbidity of a real atmosphere. Meteor. i gidrol. no.3: (MIRA 17:3) 24-26 Mr 164.

> 1. Moskovskiy gosudarstvennyy universitet i TSentral'naya aerologicheskaya observatoriya.

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	48
UTHOR: Kudryavtsev, N. T.; Plaskeyev,	Ye. V.; Ryazanova, L. M
	C Bt
ORG: none	v1 $v1$ v'
TITLE: Electrolytic preparation of fin	ely divided lead and zinc powders
SOURCE: AN SSSR. Otdeleniye obshchey	i tekhnicheskoy khimii. Zashchitnyye metalli- ya metallov i issledovaniya v oblasti elektro- oatings, corrosion of metals, and studies in
TOPIC TAGS: electrodeposition, zinc, 1	ead, metal powder
ABSTRACT: Finely divided lead and zinc alkaline <u>electrolytes</u> . The effect of m current density, cathode material, and the metal and the dispersity of the cat ious inhibitors on the degree of oxidat The experiments showed that as the zinc current densities being the same, the c inhomogeneity in the size distribution	e powders were prepared electrolytically from netal concentration in the electrolyte, cathodic organic admixtures on the current efficiency of chodic deposits was studied. The effect of var- tion of the finished products was determined. concentration increases from 0.1 to 0.3 N, the current efficiency of the powder rises, but the of the powder particles increases. The zinc s than the lead powder in particle size; its part dendritic shape. A certain increase in the

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RYAZANOVA, M. Ya .: Master Phys-Math Sci (diss) -- "On oscillations of a flexible beam under the action of a movable load". Kiev, 1959. 10 pp (Min Higher Educ Ukr SSR, Klev State U im T. G. Shevchenko, Chair of Theoretical Mech), 150 copies (KL, No 14, 1959, 118)





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新日子科学

RYAZANOVA, M.Ya. (Kiyev); FILONENKO, G.G. (Kiyev)

Vibrations of an infinite elastically supported beam subjected to movable loading taking into consideration energy dissipation. Prikl. mekh. 1 no.8:128-130 '65. (MIRA 18:9)

1. Kiyevskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 07/19/2001



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SPECIAL SPECIA



建筑中体征

A UTHOR:	Ryazanova, M.Ya. SOV/21-58-2-10/28
TITLE:	On the Vibrations of a Beam Under the Effect of a Load Moving Along It (O kolebaniyakh balki pod deystviyem dvizhushche- gosya vdol' neyë gruza)
PERIODICAL:	Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 2, pp 157-161 (USSR)
ABSTRACT:	The problem of the vibrations of a beam under the effect of a moving load has been considered by many scientists but solved only for cases containing certain simplifying con- ditions concerning the law of motion of the load or the ra- tio of the masses of the load and the beam, etc. The pre- sent paper treats this problem in a general case without any restricting conditions. It is reduced to a system of two Volterra integral equations of the first kinds $\mathcal{Y} = \int_{0}^{t} (t-t_{,})\varphi(t_{,})dt_{,}; F(t) = \int_{0}^{t} L(t,t_{,})\varphi(t)dt_{,}$ This system is solved approximately by the substitution of a system of algebraic equations. As an example the author
Card $1/2$	discusses the case of uniformly accelerated motion of a

119 Plan

117

SOV/21-58-2-10/28 On the Vibrations of a Beam Under the Effect of a Load Moving Along It load along the beam freely supported at the ends. There are: 1 schematic diagram, 2 tables and 5 references, 3 of which are Soviet and 2 German. ASSOCIATION: Kiyevskiy gosudarstvennyy universitet (Kiyev State University) By Member of the AS UkrSSR, A.Yu. Ishlinskiy PRESENTED: SUBMITTED: May 6, 1957 Russian title and Russian names of individuals and institu-NOTE: tions appearing in this article have been used in the transliteration. Card 2/2

CIA-RDP86-00513R001446320013-7

MAINOVA, N. F. -- "Investigation of the Process of Cutting Large-Modulus Spur Gears with Work Malling Cutters." *(Discertations for Degrees in Science and Engineering Sefered at USSR Migher Educational Institutions) Min of Migher Education USSR, Hiev Order of Lenin Polytochnic Inst, Chair of Fechnology of Machine Construction, Miev, 1955

SC: An'zhnava Letonis!, No. 25, 18 Jun 55

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* For Degree of Doctor of Technical Sciences

APPROVED FOR RELEASE: 07/19/2001

SOURCE CODE: UR/0240/66/000/010/0025/0029 ACC NR: AP6034201 (A,N)AUTHOR: Ryazanova, Bankow Surfill Moscow Hygiene^vResearch Institute im. F. F. Erisman (Moskovskiy A STATEMENT ORG: nauchno-issledovatel'skiy institut gigiyeny) Toxicity of zineb pesticide TITLE : 0 Gigiyena i sanitariya, no. 10, 1966, 25-29 SOURCE: TOPIC TAGS: pesticide, toxicity, toxicology, plant disease controlz cumulat incertife of ripebenatictive ABSTRACT: Zineb, the zinc salt of ethylene-bis-dithiocarbamic acid used for control of plant pests, shows no cumulative effects in chronic toxicity studies. The average lethal dose ranges between 1700 and 2000 mg/kg when administered orally in single doses. Such effects as decreased cholinesterase activity, total acidity of gastric juice, hemoglobin and differential blood count produced in long term administration of the compound in daily doses of 100 mg/kg were reversible after ceasing to give the compound. Orig. art. has: 2 figures. [W.A. 50] SUB CODE: 06/ SUBM DATE: 10Jun65/ ORIG REF: 007/ OTH REF: 002 613.63:632.952+615.777.932-099 UDC: Card 1/1

CC NRI AP6034201	(A,N) SOURCE CODET	UR/0240/66/000/010/002	
AUTHOR: Ryasanova	, R. A.		
RG: Moscow Hygie	Surfue ne ^v Research Institute el'skiy institut gigiy	im. F. F. Erisman (Mosko eny)	vekiy
TITLE: Toxicity o	f zineb pesticide		
	i sanitariya, no. 10,	1966, 25-29	
TOPIC TAGS: pesti	cide, toxicity, toxico	logy, plant disease cont	rol z ;
ABSTRACT: Zineb, used for control of toxicity studies. 2000 mg/kg when an decreased choline hemoglobin and di tration of the con after ceasing to	the zinc salt of ethyl of plant pests, shows m The average lethal do iministered orally in e sterase activity, total fferential blood count apound in daily doses of give the compound. Or:		and cts AB ce, dminis- ible A. 50]
SUB CODE: 06/ S	UBM DATE: 10Jun65/ 0	RIG REF: 007/ OTH REF:	002
<u>~</u> 1/1	UDC: 613.6	3:632.952+615.777.932-09	7
Cord 1/1			مربع مستسمين م

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27500 S/063/61/006/003/004/004 A051/A129

AUTHORS: Ryazanova, R.M., Dolgopol'skiy, I.M., Klebanskiy, A.L. TITLE: Perfluorobutadiene in the reaction of diene synthesis

PERIODICAL: Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva im.D.I.Mendeleyeva, v.6, no. 3, 1961, 356 - 357

TEXT: The authors have studied the behavior of hexafluorobutadiene in diene synthesis reactions, characteristic for a conjugated system of double bonds. They investigated the reaction of hexafluorobutadiene with maleic anhydride, 1,4naphthaquinone, acrylonitrils styrene, methylmethacrylate, divinyl and isoprene. Hexafluorobutadiene was synthesized according to Ref. 4: Ch. Slesser, S.R. Schram, Preparation, properties and technology of fluorine and organic fluorocompounds, N.Y. - Toronto - London, 1951. It was established that hexafluorobutadiene does not react with maleic anhydride nor with 1,4-naphthaquinone, both without a solvent as well as with a solution of toluene. The reactions with acrylonitrile, styrene and methylmethacrylate resulted in the production of addition products with satisfactory yields, boiling within a narrow temperature range. Theoretically it was expected that as a result of the interaction bet-

Card 1/4

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RYAZANOVA-SOLNTSEVA, M.S.

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1. Rekomendovana kafedroy farmakologii 1-go Moskovskogo meditsinskogo instituta im. I.M. Sechenova. (BRAIN) (ELE CTROPHYSIOLOGY) (SULFAN ILAN IDE)

KALININ, V.I., prof., doktor fiziko-matem. nauk [deceased];
AKINDINOV, V.V.; GERSHTEYN, G.M.; DASHENKOV, V.M.; YEVSEYEV,
V.I.; IL'IN, V.S.; KOROSTELEV, G.N.; LUCHININ, V.D.; NAUMENKO,
Yu.P.;RYAZANOVA, T.P.; SEDIN, V.A.; TOLSTIKOV, V.A.; SHTYROV,
A.I.; AVILOV, B.I., red.; ZENIN, V.V., tekhn. red.

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1. Saratov. Universitet. 2. Kafedra radiofiziki Saratovskogo universiteta im. N.G.Chernyshevskogo (for all except Avilov, Zenin).

(Radio)

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