On pressure-deformed ...

27850 S/508/60/029/000/006/012 D225/D303

$$\sigma_{(k)}^{ik} = \frac{\Psi(ik)}{\sqrt{g_{ii}g_{kk}}} \sum_{mnp}^{N} \left[A_{mnp}f_{(1)}^{ik} + B_{mnp}f_{(2)}^{ik} + C_{mnp}f_{(3)}^{ik}\right]$$
 (56)

In the system

$$\frac{\partial F_{31}}{\partial z} = \chi_1 \tag{44}$$

coefficients FYB and free terms LB depend on the pressured state of the shell; therefore, to solve it the method of elastic solutions will be used. For the first solution φ it was assumed that $\gamma(\sigma_1) = 0$; then $\alpha_1 = 1$, $\alpha_2 = \frac{2}{1+v}$, and FYB and LB are

constants. For N=1 the system consists of 3 equations; for N=2 Card 12/14

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051871

On pressure-deformed ...

27850 S/508/60/029/000/006/012 D225/D303

it consists of 24 equations which are solved by Cramer's formulae. For N=n the system consists of m equations, solved in computers. There are 2 figures and 2 Soviet-bloc references.

SUBMITTED: August 10, 1959

Card 13/14

30329

10,6000

1327 2607 1103 4512

S/145/61/000/007/003/009

D221/D301

AUTHOR:

Ionov, V.N., Candidate of Technical Sciences

TITLE:

Calculating stresses in an ogive shell during penetration

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyeniye,

no. 7, 1961, 19-26

The stresses of an ogive shell at its penetration into a medium of known properties are analyzed. It is assumed that the deformations of the shell are small, the material is isotropic, and its stress-strain diagram is known; (Hooke's law within the limit of elasticity and the laws of the theory of small elastic and plastic deformations beyond the elastic limit). The problem is quasi-static because the speeds of contact between the shell and the barrier are assumed to be below the critical speed. The system of external forces consists of gravity with the potential φ *; the outside external pressure $p_2^{33} = p_2 + p_2^{33} = p_2 + p_2^{33} = p_2 + p_2^{33} = p_$

at z=h (Fig. 1). Internal pressure $P_1^{33} = P_1 \Theta_1(\Theta) \bigoplus_i (P)$ at z=h;

Card 1/1 2

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051871(

Calculating stresses ...

S/145/61/000/007/003/009 D221/D301

the end pressure for $\mathcal{O} = \mathcal{O}_2$ is defined by Eq. (A),

 $\frac{P(11) = -n}{2} \frac{\text{Gup sin } \theta_2}{47\text{C r}_0 h} \vec{\Phi}(\phi) \mathbf{Z}(z) (A)$

where $P\gamma(\gamma=1,2)$ are the characteristics of the external and internal pressure; n is the coefficient of overloading, and G is the weight of the upper part of the structure. The geometry of the shell is specified by the radii of curvature of the mean surface R_1 and R_2 . The variation limits of the coordinates are (B) $G_1 = G_2 = G_2$, $G_2 = G_2 = G_2$, and $G_1 = G_2 = G_$

30319

Calculating stresses ...

S/145/61/000/007/003/009 D221/D301

after in the form Eq. (5)

$$H_{I}^{(0)} = \frac{1}{2} \left(1 - \cos \bar{\theta} \right) \Phi_{II} + \frac{1}{2} \left(1 + \cos \bar{z} \right) F_{I3} + \frac{1}{2} \left(1 - \cos \bar{z} \right) \Phi_{I3}. \tag{5}$$

Each unknown term of the latter is determined from the boundary conditions on the surface and the ends of the shell. The correcting stress tensor must be obtained by solving an infinite system of algebraic equations.— linear within the elastic limit and non-linear beyond it. In the second case, one must use the method of successive approximations. A previous work of the author is referred to (Ref. 2: "Mashinostroyeniye" no.2, 1959) for calculating the coefficients. These calculations plus the solution of algebraic equations should be made with the aid of electronic computers, or by methods of numerical integration. There are 1 figure, 1 table and 2 Soviet-bloc references.

ASSOCIATION: MVTU im. N.E. Baumana (MVTU im. N.E. Bauman)

SUBMITTED: September 5, 1960 Card 3/4 4

10,6000 1327, 2607 4103 8/145/61/000/004/001/008 D221/D301

AUTHOR:

Ionov, V.N., Candidate of Physico-Mathematical

Sciences, Docent

TITLE:

Calculating stresses in spherical and almost

spherical bodies

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Mashino-

stroyeniye, no. 4, 1961, 90 - 100

TEXT: Nearly spherical bodies are defined as bodies of revolution whose generatrix is a circular arc with a displaced center. The author introduces a system of spherical coordinates $x^1 = \theta$, $x^2 = \varphi$ and $x^3 = r$. The metric tensor has $g_{11} = r^2$, $g_{22} = r^2 \sin^2 \varphi$, and $g_{33} = r^2 \sin^2 \varphi$, and $g_{33} = r^2 \sin^2 \varphi$. = 1. The stress tensor σ is constructed as a sum $(\sigma) = (\sigma_b) + (\sigma_c)$, where (σ_{b}) is the basic stress tensor; (σ_{c}) is the correcting stress tensor. The author obtains

Card 1/3

(6)

Calculating stresses in

32238 S/145/61/000/004/001/008 D221/D301

where

$$B_{1} = -r^{2} \sin^{2} \theta_{1} \left\{ -r^{4} \frac{\partial^{2} Q^{12}(1)}{\partial \varphi^{2}} + \frac{\partial}{\partial r} \left(r^{4} \frac{\partial Q_{(1)}^{13}}{\partial \varphi} \right) + \operatorname{ctg} \theta_{1} \left[r^{4} Q_{(1)}^{11} + \right] \right\}$$

$$+2\sin\theta_{1}\cos\theta_{1}\frac{\partial}{\partial\tau}\left(r^{4}\int_{0}^{\phi}Q_{(1)}^{13}d\phi\right)]\right\}. \tag{7}$$

The above can be solved by the method of eigenfunctions if certain conditions are satisfied. The eigenfunctions are

$$R_{n} = \frac{1}{2\Lambda_{n}} \left[(2 + \Lambda_{n}) \rho^{1 - \Lambda_{n}} - (2 - \Lambda_{n}) \rho^{1 + \Lambda_{n}} \right]. \tag{17}$$

where Λ_n are roots of the transcendental equation

$$\frac{(\rho_1 + 1 - \Lambda)(2 - \Lambda)}{(\rho_1 + 1 + \Lambda)(2 + \Lambda)} = \rho_1 \frac{1}{2\Lambda}.$$
 (16)

p being a dimensionless radius. The final form of F_{11} is derived, and the boundary conditions are met if the generalized surface for-Card 2/3

CIA-RDP86-00513R00051871

Calculating stresses in ...

S/145/61/000/004/001/008 D221/D301

ces, $Q_{(\gamma)}^{ik}$ are self-balanced. F_{12} is determined by the same method. Other functions F_{ik} are obtained as series expansions. The functions ϕ_{ik} are obtained from the same formulae as F_{ik} by change of an index. If $Q_{(\gamma)}^{ik}$ does not meet the conditions of self-balance, it is necessary to separate the self-balancing parts, and apply the above solution. The stress functions of the basic tensor can be found from F_{ik} and ϕ_{ik} with the aid of well-known formulae. The construction of σ_k has been considered in a previous paper. The use of computers is advisable for the calculations. There are 3 Soviet-bloc references.

ASSOCIATION: MVTU im. N.E. Baumana (MVTU im. N.E. Bauman)

SUBMITTED: February 5, 1960

Card 3/3

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051871

IONOV,	, V.N., kand.tekhn.nauk	
	Calculating stresses in an ogive shell during the penetration into the ground. Izv.vys.ucheb.zav.; mashinostr. no.7:19-26 '61.	. ·
	(MIRA 14:9) 1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana. (Elastic plates and shells)	
		i de
	그런 하는 원론가 살아가는 그는 이 하는 그는 물리에 그 것 같은 기를 잃었다.	
• • .		
		٠.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051871

BABULIN, Nikolay Alekseyevich; BAHANOVSKIY, M.A., nauchm. red.; KONCHA, F.F., red.; IONOV, V.N., red.

[Construction and interpretation of working drawings for the manufacture of machinery] Postroenie i chtenie mashinostroitel'nykh rabochikh chertezhei. Izd.2., perer. i dop. Moskva, Vysshaia shkola, 1964. 275 p. (MIRA 18:1)

FRUMIN, Isidor Il'ich; YUZVENKO, Yuriy Arsen'yevich;
LEYNACHUK, Yevgeniy Ivenovich; CHEKANOV, A.A.,
nauchn. red.; GORYUNOVA, L.K., red.; ICHOV, V.N., red.

[Technology of mechanized metal deposition] Tekhnologiia mekhanizirovannoi naplavki. Noskva, Vyssheia shkola, 1964. 303 p. (MIR4 18:1)

L 22581-65 ACCESSION NI: AP5002236 3/0140/64/000/006/0059/0066 AUTHORS: Ionov, V. N. (Moscow); Vvedenskiy, G. A. (Moscow) TIPLE: On possible forms of general solution of equilibrium equations with curvilinear coordinates SOURCE: IVUZ. Matematika, no. 6, 1964, 59-66 TOPIC TAGS: stress tensor, tensor analysis, elasticity theory, curvilinear coordinate ABSTRACT: A generalized solution for the homogeneous equilibrium equations Elitable and our off office of the process of the control of the c #-(##-;##V);-(; &-,+N-,) where R is related to the contravariant components of Binate his tensor and is a Amorton of Ilya Cherastristantismi, Dito.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051871

ACCESSION MR: AP5002236

***Constructions of the second se

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051871

		والمراجع المراجع المراجع المراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع	the state of the s	recording the engaging of
L 22581-65 ACCESSION NR:	AP5002236		O	
ASSOCIATION: 1	10118		14	
	Jun63 ENGL: O) sı	B CODE: 11A, ME	
no ref sovi oc	OTHER: (200		
<u> </u>		12000 22000 2000 1000 1000 January 2000 2000 1000 1000 1000 1000 1000 100	보는 이번 사용하는 이번 불편. 보기 전략 경우 기계	
Cord 3/3				

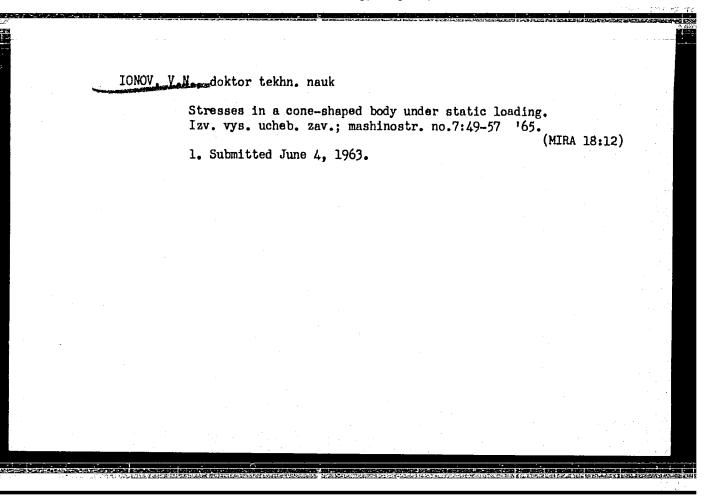
FAYERMAN, Aron Iudovich; ZVEGINTSEVA, K.V., inzh., retsenzent; BREYTMAN, M.M., nauchn. red.; IONOV, V.N., red.

[Economics and the organization of welding production] Ekonomika i organizatsiia svarochnogo proizvodstva. Moskva, Vysshaia shkola, 1965. 98 p. (MIRA 18:7)

BASTOV, Viktor Fedorovich; IVANOV, Rodion Prokof'yevich;
IPPOLITOV, Anatoliy Georgiyevich; MAREM'YANICHEV, S.N.;
MOSOLOV, K.V.; IONOV, V.N., red.

[Teaching of the fundamentals of production mechanisation and automation] Prepodavanie osnov mekhanizatsii i avtomatizatsii proizvodstva. Moskva, Vysshaia shkola, 1965.

157 p. (MIRA 18:7)



YEMEL'YANOV, Leonid Vasil'yevich; ZHIVOTINSKIY, Lev Abramovich;
GITLEVICH, Arlen Davidovich; TYURIN, V.F., nauchnyy red.;
IONOV, V.M., red.; DOROINOVA, L.A., tekhn. red.

[Auxiliary equipment for welding; an album]Vspomogatel'noe oborudovanie dlia svarki; al'bom. Moskva, Proftekhisdat, 1962. 123p.

(Welding-Equipment and supplies)

(Welding-Equipment and supplies)

ZHEBIN, Moisey Isaakovieh; SHAMIRGON, S.A., nauchnyy red.; IONOV, V.N., red.; GLAZKOVA, Ye.I., red.; DORODNOVA, L.A., tekhn. red.

[Molder employed in manual molding]Formovshchik ruchnoi formovki. Moskva, Proftekhizdat, 1962. 294 p. (MIRA 16:1) (Molding (Founding))

IO→O∀, ∀. P.

Name

: IONOV, V. P.

Title

Candidate of Technical Sciences

110

Affiliation : Mamber, Editorial Board, "Problems of Rocket Technology"

Remarks

: N. A. Akkerman, N. I. Biryukov, V. T. Vlasov, V. P. Ionov, Ye. V. Kudryavtsev, B. I. Maxarov, A. A. Orlov, V. A. Popov, and Yu. M. Shanlov are members of the editorial board of the periodical "Problemy Raketnoy Tekhniki" ("Problems of Rocket Technology"), published by the Foreign Literature Publishing House

in Moscow. The periodical is a collection of translations and

abstracts of foreign scientific articles and monographs.

Source

: P: Problemy Raketnoy Tekhniki, No. 1, January 1958, p. 2

6.

KUDRYAVTSEY, Ye.V., doktor tekhn.nsuk, red.; IGNOV, V.P., kand.fiz.-met.
nsuk, red.; OSOKIMA, V.I., red.; RYEKIMA, V.F., tekhn.red.

[Problems of high-speed flights] Problemy poleta s bol'shimi skorostiami; sbornik statei. Moskva. Izd-vo inostr.lit-ry.
1960. 173 p.

(Aerodynamics, Supersonic) (MIRA 14:3)

· lonov, V.T.

PHASE I BOOK EXPLOITATION

SOV/4467

- Predvoditelev, Aleksandr Savvich, Yevgeniy Vladimirovich Stupochenko, Viktor Pavlovich Ionov, Aleksandr Sergeyevich Pleshanov, Igor' Borisovich Rozhdestvenskiy, and Yevgeniy Vasil'yevich Samuylov
- Termodinamicheskiye funktsii vozdukha dlya temperatur ot 1000 do 12,000° K i davleniy ot 0,001 do 1000 atm (grafiki funktsiy) (Thermodynamic Functions of the Air for Temperatures From 1,000 to 12,000° K. and Pressures From 0.001 to 1,000 atm. /Graphs of the Functions/) Moscow, Izd-vo AN SSSR, 1960. 53 p. Errata slip inserted. 2,500 copies printed.
- Sponsoring Agencies: Akademiya nauk SSSR. Knergeticheskiy institut imeni G.M. Krzhizhanovskogo; Ministerstvo vysshego obrazovaniya SSSR; Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. Fizicheskiy fakul'tet.
- Resp. Ed.: A.S. Predvoditelev, Corresponding Member, Academy of Sciences USSR.
- PURPOSE: This book is intended for scientists and engineers concerned with thermodynamic air functions.

Thermodynamic Functions of the Air (Cont.)

SOV/4467

COVERAGE: The publication contains diagrams of thermodynamic air functions plotted as sets of curves in relation to temperature and pressure, where pressure has been taken as parameter. In addition, an approximation method for calculation of the straight shock is described. Universal curves, representing the dependence of the ratio of pressures and enthalpies along the shock on the M number are given. The diagrams have been plotted using exact data computed by means of an electronic computer at the Vychislitel nyy tsentr Akademii nank SSSR (Computing Center, Academy of Sciences USSR). The work presented in this publication was done by scientific workers of the Laboratory of Combustion Physics at the Energeticheskiy institut AN SSSR (Power Engineering Institute, Atademy of Sciences USSR), and the Department of Molecular Physics of the Division of Physics at MGU (Moscow State University) under the general direction of Professor A.S. Predvoditeley, Corresponding Member of the Academy of Sciences USSR. There are 3 references, all Soviet.

TABLE OF CONTENTS:

Introduction

•3

Description

5

Cara PAL

IONOV, V. P., and KON'KOV, A. A.

"Spectral Properties of Some Gases at High Temperatures and Pressures."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

KUDRYAVTSEV, Ye.V., doktor tekhn. nauk, red.; IONOV, V.P., kand. fiz.mat. nauk, red.; VISKOVA, M., red.; DOTSENKO, V., tekhn. red.;
IOVLEVA, N., tekhn. red.

[Mobile plasma] Dvizhushchaiasia plasma; sbornik perevodov. Moskva, Izd-vo inostr. lit-ry, 1961. 612 p. (MIRA 15:1)

(Plasma (Ionized gases))

AUTHOR:

Ionov, V. P.

S/262/62/000/004/009/024

1014/1252

TITLE:

Determination of gas flow parameters at the surface of a cone moving at high speed,

with gas dissociation taken into account (approximate methods)

PERIODICAL:

Referativnyy Zhurnal, Silovyye ustanovki, no. 4, 1962, 37, 1 bstract 42.4.237 "Fiz. gazo-

dinamika i teploobmen' M." AN SSSR, 1961, 25-30

TEXT: It is assumed that the flow is isentropic and axially symmetrical. The problem is solved on the basis of equations of motion and continuity, as well as of the energy and the state of the gas. An approximate solution was obtained on the assumption that at high flight speeds the conic shock wave approaches the surface of a cone while flow parameters vary insignificantly inside the gas layer between the shock wave and cone surface. The problem is simplified by using an approximate adiabatic curve equation for a dissociated gas. Comparison of the exact and approximate methods for M = 3.6-8.7 showed good apreement. A method was also studied based on the assumption of non-compressible liquid flow in the zone between the conical shock wave and the cone surface.

[Abstracter's note: Complete translation.]

Card 1/1

S/081/61/000/024/003/086 B138/B102

AUTHORS:

Ionov, V. P., Kon'kov, A. A.

TITLE:

Radiation spectra of diatomic gases under adiabatic compres-

sion

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24, 1961, 15, abstract 24B83 (Sb. "Fiz. gazodinamika i teploobmen". M., AN SSSR,

1961, 46 - 50)

TEXT: Emission spectra have been obtained, on an adiabatic compression apparatus, for air, 0₂, N₂, H₂, Ar, and He. The spectra of air and the diatomic gases are continuous. The radiation of air in the 5500 - 6700 Å range temperatures between 2000 and 3500 K and pressures between 100 and 500 atm can be regarded as gray-body radiation. In these conditions the spectra from single-atomic gases are line spectra with a slight continuous background. [Abstracter's note: Complete translation.]

Card 1/1

23871 8/186/61/003/001/004/020 A051/A129

21,3200

AUTHORS: Sameylov, O.Ya., Tikhomirov, V.I., Ionov, V.P., Kuznetsova, A.A.

TITLE: The relationship between the effectiveness of the salting-out agent and the hydration of the salting-out ion

PERIODICAL: Radiokhimiya, v 3, no 1, 1961, 14-18

TEXT: In the present work the authors have investigated the relationship between the effectiveness of the salting-out agent and the hydration of the salting-out ion, using the qualitative theory developed in Ref 1. It is seen that the stronger the salting-out cation is hydrated, the more effective the given salting-out agent should be in relation to it, i.e., the higher should be the value of its $\triangle E$ salting-out (a decrease in the energy of activation of the water molecule extraction from the closest surroundings of the extracted ion). Thus,

 $\Delta E_{\text{salting-out}} \approx \frac{k}{83}$ (3),

Card 1/6

23871

S/186/61/003/001/004/020 A051/A129

The relationship between the effectiveness ...

where k is a coefficient depending on the cation charge of the salting-out agent, dipole moment of the water molecule and characteristics of the water solution, and S₁— the average (effective) distance between the salting-out cation and the salting out agent. With an increase in the hydration of the salting-out ion, the value of E_{salting-out} related to the action of a certain salting-out agent on it increases: (4)

 $(\Delta E_{salt.-out})_i > (\Delta E_{salt.-out})_j$ or $(\Delta E_{salt.-out})_i - \gamma (\Delta E_{salt.-out})_j$

where the coefficient $\gamma>1$. For various salting-out agents it is assumed that the values of the coefficients are about equal, then:

$$(\Delta E^s_{salt.-out})_i - \gamma (\Delta E^s_{salt.-out})_j$$
 (5)

where s=1,2,3, corresponding to the different salting-out agents. The authors investigate the salting-out ions i and j, whereby the i-ion is characterized by a higher hydration than the j-ion. It is established that the relationship of \triangle Esalt.-out to the hydration of the salting-out ion

Card 2/6

23871

The relationship between the effectiveness...

8/186/61/003/001/004/020 A051/A129

brings about the equations

 $\left(\frac{\mathbf{a}^{1}}{\mathbf{a}^{2}}\right)_{\mathbf{i}} > \left(\frac{\mathbf{a}^{1}}{\mathbf{a}^{2}}\right)_{\mathbf{j}} \qquad (9)$

(where a is the distribution coefficient [Ref 1]). It is confirmed experimentally by investigating the extraction of uranyl and thorium with tributy!—phosphate from water solutions containing magnesium, calcium and strontium nitrates. Equation 9 indicates that with a strengthening of the hydration of the salting-out ion the relative increase in the distribution coefficient grows; determined by the growth of the effectiveness of the salting-out agent. Table 1 lists the determined values of the distribution coefficients of uranyl and thorium, and table 2 lists the ratios of the distribution coefficients for uranyl and thorium in the presence of various salting-out agents from a group of magnesium, calcium and strontium nitrates. The ratios taken are that of the distribution coefficients in the presence of a more effective salting-out agent to the value of the distribution coefficient in the presence of a less effective salting-out agent. The data of table 2 show that these ratios for thorium are greater than for uranyl. Since thorium is

Card 3/6

The relationship between the effectiveness... A051/A129

hydrated more strongly in aqueous solutions than uranyl, it is concluded that the experimental results confirm the validity of equation (9). There are 2 tables, 9 formulae and 6 referencess 4 Soviet-bloc, 2 non-Soviet-bloc.

34331.

S/124/62/000/002/006/014 D234/D302

26.2160

AUTHOR:

Ionov, V.P.

TITLE:

Supersonic flows in profile nozzles in the regime of overexpansion during variations of the Reynolds number

个工作的 医克耳特氏角质膜积积固定环环球的 医胆囊内部外阴极性 医乳球肠 医多种环肠周节 经产品 化分子分类 化苯基苯基苯基苯基 医克克克氏 化甲基甲基甲基甲基甲基甲基甲基

of the stream

PERIODICAL:

Referativnyy zhurnal, Mekhanika, no. 2, 1962, 34, abstract 2B2O4 (V Sb. Gazodinamika i fiz. goreniya. M., AN SSSR,

1959. 84-87)

TEXT: Investigation of the structure of the stream in regimes of over-expansion was carried out in plane supersonic nozzles with transparent walls with the aid of Tepler's instrument. Two nozzles with N=2.03 and N=1.55 were tested. By varying the density of the jæt stream, the number R was changed from 0.25 to 2.5 x 10^5 . It is shown that in the case of laminar boundary layer (small absolute pressures of the stream) the oblique discontinuity of condensations at the wall of the nozzle branches off into a complex system, while in case of a turbulent boundary layer the oblique discontinuity ends at the wall by a λ -shaped

Card 1/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051871

Supersonic flows in	S/124/62/000/002/006/014 D234/D302	
discontinuity with one 'leg'.	Abstracter's note: Complete transla	tion].
		X
Card 2/2		

S/862/62/001/000/011/012 E032/E314

AUTHORS:

Kon kov, A.A. and Ionov, V.P.

TITLE:

Spectral characteristics of some games at high

temperatures and pressures

SOURCE:

Teplo- i massoperenos. t. 1: Teplofizicheskiye kharakteristiki materialov i metody ikh opredelemiya.

Ed. by A. V. Lykov and B. M. Smol'skiy. Minsk,

Izd-vo AN BSSR, 1962. 196 - 204

TEXT: This paper reports a study of the spectral characteristics of pure air and of air containing carbon dust. In addition, a study was made of the properties of nitrogen. oxygen and hydrogen up to 3 500 K and helium and argon above 5 000 K. A special steel chamber in which the gases were adiabatically compressed was used to obtain the above temperatures between 100 and 1 000 atm. The temperatures could be held for about 1 ms. The emission spectra were recorded with the aid of the WCI-51 (ISP-51) spectrograph (both integral and time-resolved spectra were obtained). A determination was made in each case of the temperature, emissivity, degree of blackness, electrical Card 1/2

Spectral characteristics ...

S/862/62/001/000/011/012 E032/E314

conductivity and compression of the gas. It was found that the emission spectra of adiabatically compressed air and the diatomic gases mentioned above were continuous in the absence of artificially introduced impurities. Under these conditions, the emission of air between 5 500 and 6 700 Å at 2 000 - 3 500 K and 100 - 500 atm may be looked upon as the emission of a grey body. Under these conditions the emission spectra of monoatomic gases exhibit spectral lines, superimposed on a low continuous background. The spectrum contains lines due to Fe, Cr, Na and K impurities. The emission spectra of air with suspended unactivated carbon dust are similar to the spectrum of ordinary air under the above conditions except that the intensity is higher by a factor of 60 - 70. The introduction of 0.5% (by wt.) of carbon dust into air gives rise to an increase in its electrical conductivity by a factor of 100 - 500. There are 7 figures and 1 table.

ASSOCIATION:

Energeticheskiy institut im. G. M. Krzhizhanovskogo (Power Engineering Institute im. G.M. Krzhizhanovskiy)

Card 2/2

MOTULEVICH, V.P., kand.tekhn.nauk, red.; IONOV, V.P., kand.fiz.-matem.

nauk, red.; SHEMANINA, V.N., red.; REZOUKHOVA, A.G., tekhn.red.

[Clas dynamics and heat exchange in commettion with chemical reactions] Clazodinamika i teploobmen pri milichii khimicheskikh reaktsi; sbornik statei. Noskva, Izd-vo inostr.lit-ry, 1962.

552 p. Translated from the English. (MIRA 15:5)

(Clas dynamics) (Heat--Transmission)

S/885/62/000/000/033/035 D234/D308

AUTHORS:

Kon kov, A. A. and Ionov, V. P.

TITLE:

Investigation of radiation and electrical conductivity of adiabatically compressed air with admixtures of coal

particles and CO

SOURCE:

Akademiya nauk SSSR. Energeticheskiy institut. Fiziches-kaya gazodinamika, teploobmen i termodinamika gazov vy-sokikh temperatur. Moscow, Izd-vo AN SSSR, 1962, 290-299

TEXT: The experimental installation and methods of measurement are described in detail. The author investigated the spectral composition of the radiation, the degree of blackness and electrical conductivity up to 3500°K and at 100 - 1000 atm. Maximum size of coal particles was 100 microns. The emission spectrum of air containing particles was 100 microns. The emission spectrum of air containing non-activated coal particles is continuous and similar to that of coal burning on oxygen atmosphere, for 5500 - 6700 Å wavelengths, with T = 2000 - 3500°K, p = 100 - 500 ata it can be regarded as a with T = 2000 - 3500°K, p = 100 - 500 ata it can be regarded as a grey body radiation. The admixture of coal powder to air (0.5% by

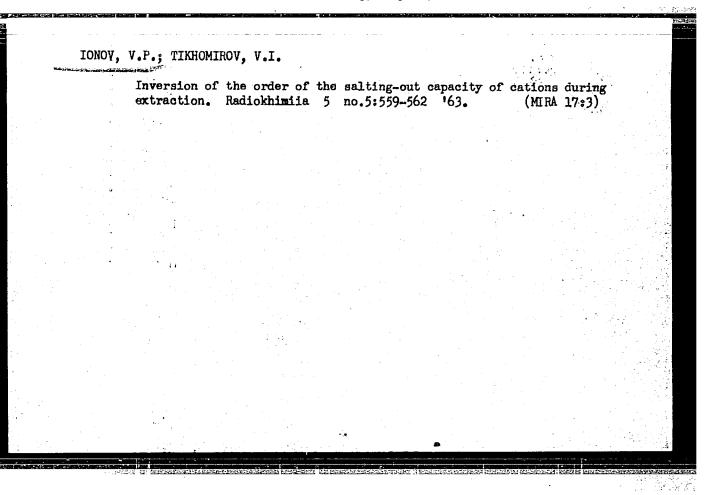
Card 1/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051871

Investigation of radiation ... S/885/62/000/000/033/035 D234/D308

weight) increases the emission capacity of the latter by 60-70 times and its electrical conductivity by 100-500 times. The authors also give an oscillogram of the conductivity of adiabatically compressed $C0+0_2$ mixture, pointing out that it is asymmetrical. There are 9 figures and 1 table.

Card 2/2



SPITSYN, V.I.; GLAZUNOV, M.P.; KODOCHIGOV, P.N.; IONOV, V.P.

Determination of sodium in metallic tungsten by the radioactivation method. Zhur.anal.khim. 18 no.10:1272-1273 0 '63. (MIRA 16:12)

1. Institute of Physical Chemistry, Academy of Sciences, U.S.S.R., Moscow.

L 12364-65 EWT(1)/EWP(m)/EMG(v)/FGS(k)/EWA(h)/EWA(l) Pd-1/Pe-5/Pi-4 $\overline{AFTC(a)}/\overline{AFTT/AEDC(b)}/\overline{ASD(d)}/\overline{SSD}/\overline{ASD(f)}-2/\overline{ASD(p)}-3/\overline{AFWL/BSD}/\overline{AEDC(a)}/\overline{SSD(b)}$ MIK

ACCESSION NIL: AT4048016

\$/0000/64/000/000/0127/0137

AUTHOR: Lonov, V. P.; Nikolayev, G. N.; Gusev, M. V.; Luneva, C. I.

TITLE: Investigation of shock-tube flows using the Tepler method and high-speed photography

SOURCE: AN SSSR. Energeticheskiy institut. Fizicheskaya gazodinamika i svoystva gazov pri vy*sokikh temperaturakh (Physical gas dynamics and properties of gases at high temperatures). Moscow, Izd-vo Nauka, 1964, 127-137

TOPIC TAGE: shock tube, shock wave, shock wave reflection, supersonic flow, shock tube flow

ABSTRACT: An experimental study of shock-tube flows using the Tepler method and high-speed photography is presented. Detailed descriptions of the optical apparatus, shock tube, and the experimental procedure are given. The photographic records used to illustrate the various flow patterns and shock wave reflections in the range from Mach 6.7 to 7.2 are presented and discussed. The method is applied to the study of shock wave reflections from a wall with a slit and also to supersonic flow around obstacles of various shapes in oxygen and nitrogen.

Card 1/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051871

L 12364-65

ACCESSION NR: AT4048016

The results show the existence of a period of quasi-steady flow which follows the formation of the reflected shock wave and the establishment of the flow. The region behind the reflected shock wave seems to be a reservoir of high-temperature gas acquiring a supersonic velocity by flowing through the slit into the expanding channel. Orig. art. has: 8 figures and 1 table.

ASSOCIATION: \ none

SUBMITTED: 06Mar64 ENCL: 00 SUB CODE: ME

NO REF SOV: 002 OTHER: 001 ATD PRESS: 3125

Card 2/2

WAYNERMAN, K.Ye.; VESELKOV, V.D.; IONOV, V.P.; VASIL'YEVA, L.A.

Mechanisation of welding operations on building ways. Avtom.
svar. 18 no.8:58-59 Ag '65.

1. Submitted February 26, 1965.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

Card 1/2

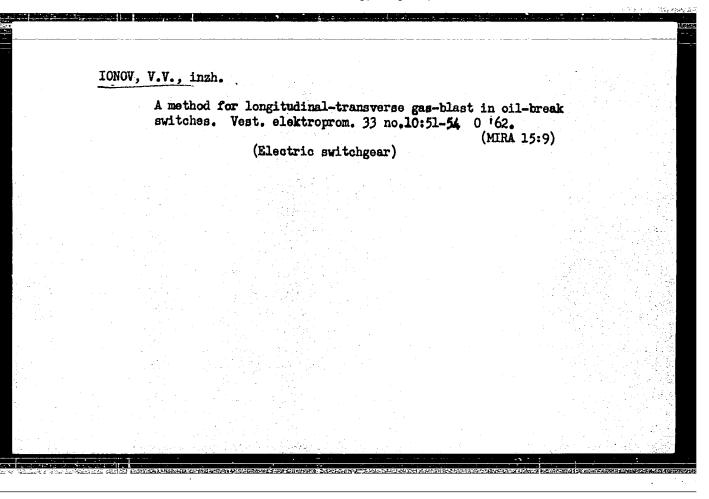
CIA-RDP86-00513R00051871

ACC NR: AT6022657 SOURCE CODE: UR/0000/66/000/000/0158/0164 AUTHOR: Ionov, V. P.; Nikolayev, G. N. ORG: none TITLE: Experimental study of a flow of dissociated gases through a supersonic nozzle SOURCE: AN SSSR. Energeticheskiy institut. Issledovaniya po fizicheskoy gazodinamie (Studies of physical gas dynamics). Moscow, Izd-vo Nauka, 1966, 158-164. TOPIC TAGS: gas flow, supersonic flow, equilibrium flow, propulsion nozzle, supersonic nozzle ABSTRACT: The supersonic flow of various gases (oxygen, nitrogen, and carbon dioxide) through two supersonic nozzles was investigated experimentally. The nozzles were placed in a shock tube so that the heated and dissociated gas discharged through the nozzles after reflecting from the tube end. Two nozzles were used: one with two flat straight walls and two flat diverging walls, and the other, an axisymmetrical nozzle with a hyperbolic contour. The gas parameters at the nozzle outlet were determined by photographing the flow patterns of the gas flowing around a semi-wedge. Mach numbers at the nozzle outlet were obtained for various nozzle-area ratios, and then compared with data calculated under the assumption that the flow is in equilibrium and isentropic. The errors caused by disregarding the heat transfer and friction at the walls were estimated. A considerable deviation from the isentropic data was

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051871

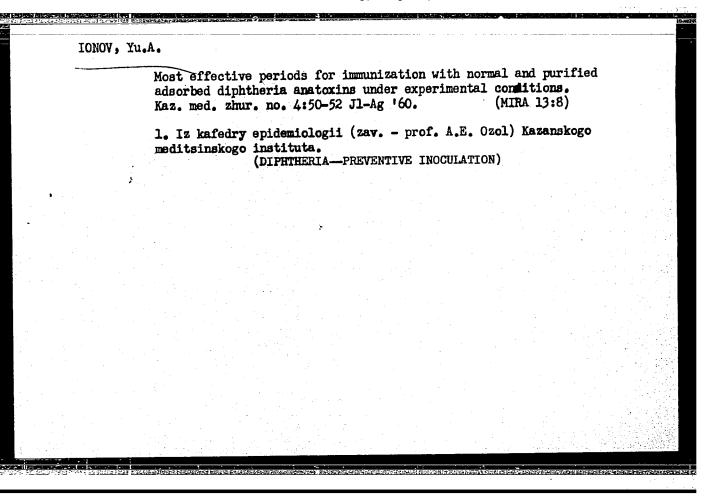
not	in equ	ullibr	ium.	Orig.	This dis	us: 5	figur	es.							[PV]
SUB	CODE:	21/	SUBM	DATE:	31Feb	66/	ORIG R	EF: 00	08/ 0	TH RE	F: 0	03/	ATD	PRE	38:
														2	<i>303</i>
												• 7	· .	. *	
													•		
								* . *							
										,					
		.*													
	٠.	•				7 7 3	•		•						
					•									•	•
					. •	1.5				• •		٠.			
			<u>.</u>	•											
					. 6			:					•		
												•	٠		
						11 × 1						-			

ZAKHAROV, S.N., kand.tekhn.nauk; KAPIAN, V.V., inzh.; IONOV, V.V., inzh.; OSIPOVA, T.V., inzh.; SHERMAN, Ya.N., inzh.; SHESHIN, B.A., inzh. New MG-10 and MG-20 generator switches. Vest. elektroprom. 32 no.3: 73-76 Mr 161. (MIRA 15:6) (Electric switchgear)



RUNOV, V.K., kand.tekhn.nauk, dotsent; SEDOV, M.G., dotsent; IONOV, V.Ye., inzh.

Some defects in the introduction of large silica blocks in the city of Gorkiy. Trudy GISI no.43:16-24 '63. (MIRA 17:4)



Importance of the interval between the vaccination with purified adsorbed diphtheria anatoxin and the revaccination with native anatoxin. Nauch. trudy Kaz. gos. med. inst. 14: 187-188 '64. (MIRA 18:9) 1. Kafedra epidemiologii (zav. - prof. A.E.Ozol) Kazanskogo meditsinskogo instituta.

IONOV, Yu.A.

Immunological effectiveness of purified adsorbed diphtheria anatoxin and native anatoxin in an experiment. Nauch. trudy Kaz. gos. med. inst. 14:189-191 '64. (MIRA 18:9)

1. Kafedra epidemiologii (zav. - prof. A.E.Ozol) Kazanskogo meditsinskogo instituta.

IONOVA, Ye.A.; GOLOVNYA, V.A.

Titenium tetrachloride compounds with carbamide.
Zhur.neorg.khim. 11 no.1:138-143 Ja '66.
(MIRA 19:1)

1. Institut obshchey i neorganicheskoy khimii imeni
N.S.Kurnakova AN SSSR. Submitted April 6, 1965.

IONOVA, Ye.A.

Interaction of titanium tetrachloride with pyridine and ethyl alochol. Izv. AN SSSR. Neorg. mat. 1 no.11:1853-1857 N '65. (MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR. Submitted April 27, 1965.

IONOV, Yu. K., kand.tekhn.nauk

Relation between the peening and the wearing of band steel.

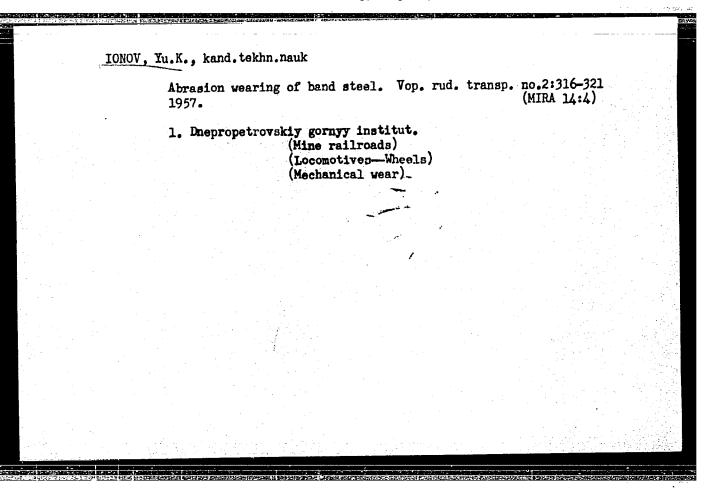
Vop. rud. transp. no.2:312-315 1957. (MIRA 14:4)

1. Dnepropetrovskiy gornyy institut.

(Mine railroads)

(Locomotives—Wheels)

(Mechanical wear)

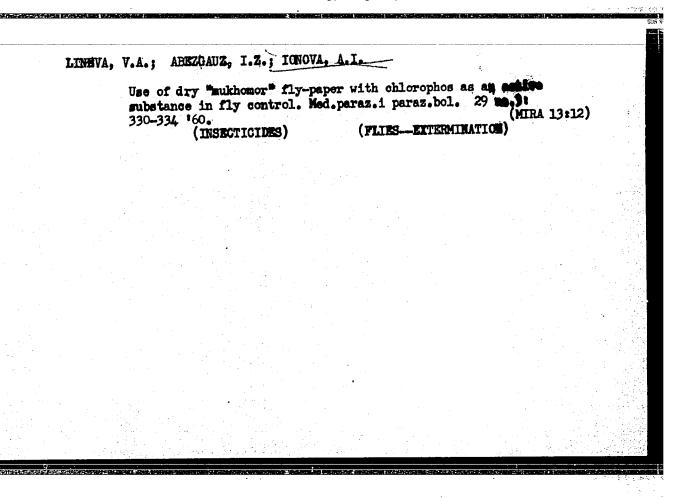


ICROV, Yu.K., kand.tekhm.nauk; GVAY, P.I., otv. 2a vypusk

[Design and wear resistance of pins of a sectional pull chain]
O reschete i iznose pal'tsev tiagovoi razbornoi tsepi. Daepropetrovsk, 1959. 17 p. (Daepropetrovsk. Inzhenerno-stroitel'nyi institut. Kauchnee soobshchenie, no.52).

1. Zamestitel' direktora Daepropetrovskogo inzhenerno-stroitel'nogo instituta (for Gvay).

(Chains)



IONOVA, A. M.: Master Agric Sci (diss) -- "Keeping potatoes in holes and trenches under the conditions of western Siberia". Omsk, 1959. 23 pp (Abstracts of dissertations presented at the Omsk Agric Inst im S. M. Kirov), 170 copies (KL, No 14, 1959, 121)

IONOVA, I. A.: Master Med Sci (diss) -- "The problem of reactivity in dysentery of children". Moscow, 1958. 15 pp (Second Moscow State Med Inst im N. I. Pirogov), 220 copies (KL, No 5, 1959, 156)

IONOVA, G.V., DYATKINA, M.Ye.

Molecular orbits of tetrahedral hydroxyanions of transition elements. Report No.1: Chromate and permanganate. Zhur. strukt. khim. 6 no.1:128-136 Ja-F *65.

(MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimli imeni N.S. Kurnakova AN SSSR. Submitted January 10, 1964.

IONOVA, G.V.; DYATKINA, M.Ye. Molecular orbitals of tetrahedral transition metal oxyanions, Report No.3: Orthovanadate ion, Zhur. strukt. khim. 6 no.2:283-285 Mr-Ap '65. (MIRA 18:7) 1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

IONOVA, G.V.; DYATKINA, M.Ye.

Molecular orbits of MnO₂F. Zhur. neprg. khim. 10 no.9:2036-2040 S
'65.

(MIRA 18:10)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

IONOVA, G.V., DYATKINA, M. Io.

Molecular orbitals of tetrahedral exyanions of transition metals. Report No.4: FeO, molecule. Thur.strukt.khim. 6 no.5:796-797 S=0 165. (MIRA 18:12)

1. Institut obshehay i neorganicheskoy khimit imeri N.S.Kurnakova, M. SSSR. Submitted March 1, 1965.

IONOVA, I.A.

Problem of reactivity in dysentery in children. Vop.okh.
mat. i det. 4 no.3:45-49 My-Je 59. (MIRA 12:8)

1. Iz kafedry propedevtiki detskikh bolezney (zav. - prof. V.A. Vlasov) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova (dir. - dotsent M.G. Sirotkina) na baze Detskoy klinicheskoy bol'nitsy imeni N.F. Filatova (glavnyy vrach M.W. Kalugina).

(DYSENTERY)

IONOVA, I.V.

Brythrocyte sedimentation rate and curves of erythrocyte sedimentation in children in nurseries, kindergertens, and schools [with summary in English]. Pediatriia 36 no.9:62-66 D'58 (MIRA 11:11)

1. Is kafedry propedevtiki detskikh bolezney (sav. - prof. V.A. Vlasov) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova na baze detskoy bol'nitsy imeni N.F. Filatova (glavnyy vrach M.F. Kalugina).
(BLOOD SEDIMENTATION

in child in Russia (Rus))

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051871

Synthesis of glycyl-leucine and glycyl-phonylalanine to Vest. Mosk.un. Ser. 2: Khim. 19 no. 4:85-89 Jl-Ag '64.	te trapeptides.		
1. Kafedra organicheskov khimii Moskovskogo universite	(NIRA 18:8)		
그 이 얼룩됐다. 그런데 현유 스네트스트 아름다.			
살아 있는 사람이 하를 통해야 하면 있는 것이다. 사람들은 사람들은 사람들이 되었다. 나는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들이 되었다.			
경기에 들어 되는 이 회에 들어 없는 물로 가장하게 되었다. 그런 그 이 이 그는 것 같다. 이 것이 되어 된 이 두 것 같은 것을 했다. 이 글로 이 것이 되었다.			
: 사용 : : : : : : : : : : : : : : : : : :			
호텔 시마하는 하는 사람들이라는 생각하는 하는 문에 마디지에는 말하는데 하는 것. 이렇게 이 하는 사람들에게 하는 것 같아. 그렇게 하는 것이 하는 것 같아.			
선생님 이 화학생활 하는 것이 되는 것이다.			
[발문화] : '인경 홍네종육왕 4. (21. 19 4 .) - (- 1. 19 4 .) 12.			

LYSOVA, A.I., kand. tekhn. nauk; DANDEEKOV, S.D., kand. tekhn. nauk; SMIRNOVA, L.Z., inzh.; KALISTRATOVA, M.V.; GANEERG, M.M.; IONOVA, K.I.; SHISTER, G.M., red.

[Album of prestressed reinforced concrete roof constructions for the general repair of apartment houses] Al'bom predvaritel'no napriashennykh zhelezobetonnykh konstruktsii krysh dlia kapital'nogo remonta zhilykh domov. Leningrad, 1962. 8, 58 p. diagrs. (MIRA 16:11)

l. Akademiya kommunal'nogo khosyaystva. Leningradskiy nauchno-issledovatel'skiy institut.
(Roofing, Concrete)

2322. Role of diffusion in processes taking place on electrodes during spectrographic analysis with source discharge. V. V. Nalimov and R. J. Lonova U. Anal. Casm. U.S.S.R., 1954. 9 (2):rt6-34)—You minimise the effect of third elements in spectrographic analysis, it is necessary to destroy the crystal lattice, i.e., to work with the liquid state, and at the same time retain spark excitation. The sample must remain completely oxidised; no oxidation reduction processes should occur on the surface of the sample.

G. S. Setter

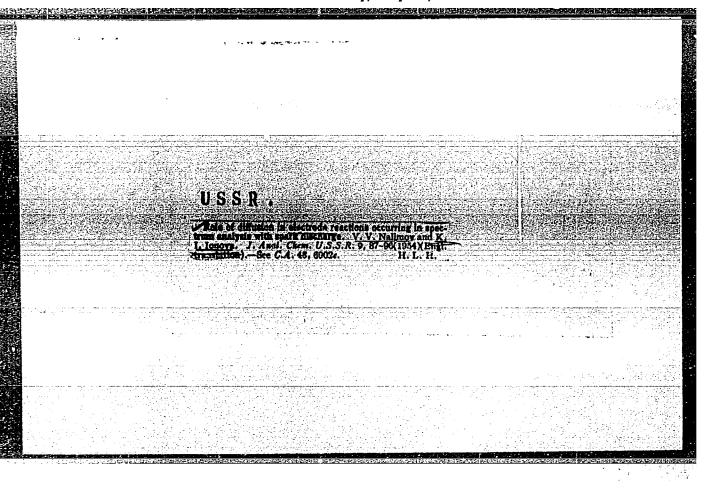
Al-

LYSOVA, A.I., kend. tekhn. nauk; VINER, B.M., inzh.; GANBERG, M.M., inzh.; IONOVA, K.I., inzh.; KALISTRATOVA, M.V., inzh.; RABINOVICH, G.M., inzh.; SHISTER, G.M., red.

APPROVED TO BE RELEASER THOUSE A CONTROL OF APPROVED TO BE STRUCTURED FOR MAJOR TO THE PROPOSE OF APPROVED TO THE PROPOSE OF APPROPOSE OF APPROVED TO THE PROPOSE OF APPROPOSE OF APPROVED TO THE PROPOSE OF APPROPOSE OF APPROPOS

1. Akademiya kommunal'nogo khozyaystva. Leningradskiy nauchno-issledovatel'skiy institut.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051871



"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051871

LONOVA, K.I.

USSR/ Chemistry - Spectral analysis

Card

1/1 Pub. 43 - 71/97

Authors

Nalimov, V. V., and Ionova, K. I.

Title

The effect of "third elements" during spectral analysis of slag with

spark excitation

Periodical: Izv. AN SSSR. Ser. fiz. 18/2, 286-287, Mar-Apr 1954

Abstract

Experiments were conducted for the purpose of observing the phenomenon of displacement of calibration curves under the effect of third elements during spectral analysis of slag and to explain whether or not it is possible to eliminate or at least reduce this effect without changing the analysis method. Brief summary of the results is presented.

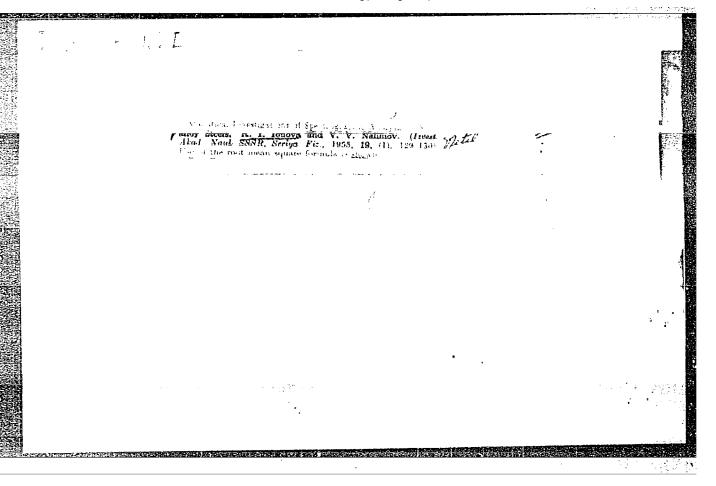
Institution : The Kazakh Metallurgical Plant

Submitted

IONOVA, K. I.; NALIMOV, V.V.

Statistical study of the precision of spectrum analysis of unalloyed steel. Isv. AN SSSR. Ser. fiz. 19 no.1:129-130 Ja-F 155. (MLPA 8:9)

1. Kasakhskiy metallurgicheskiy savod (Spectrum analysis) (Spectrometer)



JONOVA, K.I.; MALIMOV, V.V.

Statistical study of the exactitude of unalloyed steel spectrographic analysis. Zav. lab. 23 no.5:586-591 '57. (MIRA 10:8)

1. Kasakhskiy metallurgicheskiy savod. (Steel--Spectra) (Correlation (Statistics))

NALIMOV, V.V.; IONOVA, K.I.

Statistical consideration of the fluctuation of parameters of calibration curves. Fis.sbor. no.4:528-532 '58.(MIRA 12:5)

1. Kazakhskiy metallurgicheskiy savod.
(Spectrum analysis)

AUTHORS:

Ionova, K.I., Genshaft, S.A.

32-24-4-34/67

TITLE:

A Method for the Spectral Analysis of Cast Iron Graphite on Magnesium (Metod spektral nogo analiza chuguna i grafita na

magniy)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 4, pp. 459-460 (USSR)

ABSTRACT:

In the course of the determination of magnesium in cast iron the fine metal chips on the sand bath are dissolved in hydrochloricand nitric acid (1:1) and the dissolved magnesium is examined on a ISP-28 spectrograph. A IG-2 generator with carbon electrodes is used as a light source. Standard samples made from synthetic standard magnesite Nr 82 are used, the preparation of which is described. The error limit of this method is given as being + 5.8%; magnesium can be determined within a concentration interval of 0.02-0.45% in cast iron. Analysis of six samples takes 41/2 hours. In the case of the determination of magnesium in graphite powder, the latter is annealed for 2 hours at 1000° C; there follows a treatment with hydrofluoric acid, melting in soda at 1000° C for 5 minutes, and dissolution in hydrochloric acid (1:2). Standard samples of magnesite, the production of

Card 1/2

A Method for the Spectral Analysis of Cast Iron Graphite on Magnesium

32-24-4-34/67

which is described, are again used. The employment of an "inner standard" in form of a chromous chloride solution is also necessary. The other conditions are similar to those applying in the case of the determination of magnesium in cast iron. The square deviation is mentioned as being + 2.53% (relative). Magnesium can be determined in quantities of from 0.5 - 11% in graphite powder, in which case 6 hours are needed for the investigation of five samples. Investigations were carried out in cooperation with N.R. Laletina. There are 4 references, 4 of which are Soviet.

ASSOCIATION:

Kazakhskiy metallurgicheskiy zavod (Kazakh Metallurgical Plant)

- 1. Graphite powders--Spectra 2. Magnesium--Determination
- 3. Spectrum analyzers--Performance 4. Hydrofluoric acid --Chemical effects

Card 2/2

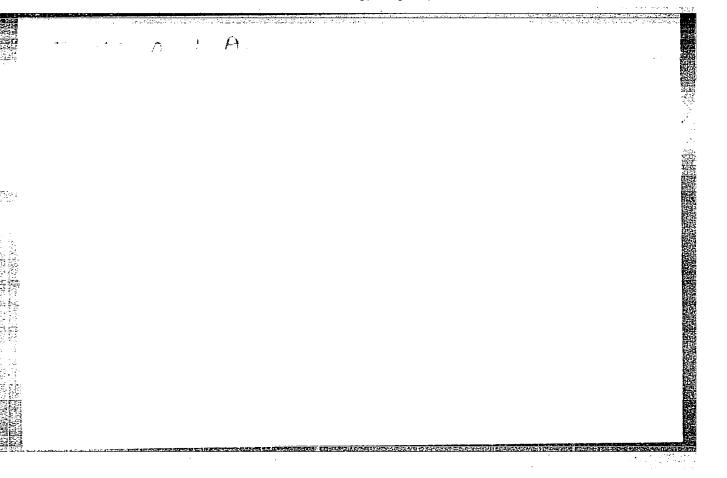
IONOVA, K. I.

Cand Phys-Math Sci - (diss) "Investigation of the effect of tertiary elements in the spark spectral analysis of open-hearth slags." Alma-Ata, 1960. 16 pp; (Ministry of Higher and Secondary Specialist Education Kazakh. SSR, Kazakhstan State Univ imeni S. M. Kirov); 150 copies; price not given; (KL, 5-61 sup, 172)

IOPOVA, K.I.

Accuracy of the spectrographic method of analysis of open hearth slags. Zav.lab. 26 no.5:581-587 160. (MIRA 13:7)

l. Karagandinskiy politekhnicheskiy institut. (Slag--Spectra)



SOV/75-13-4-11/29

AUTHORS:

Karanovich, G. G., Ionova, L. A., Podol'skaya, B. L.

TITLE:

The Photometric Determination of Gallium by Means of Gallion (Fotometricheskoye opredeleniye galliya pri pomoshchi galliona)

PERIODICAL:

Zhurnal analiticheskoy khimii, 1958, Vol. 13, Nr 4, pp. 439-

444 (USSR)

ABSTRACT:

Several organic compounds are used for the photometric determination of gallium. These compounds react with gallium in forming deeply colored compounds (Refs 1-4). "Gallion", a reaction product from H-acid and diazotized 2-amino-4-nitro-6-chloro-phenol, is an interesting reagent to gallium (Ref 6). It is water-soluble; its 0,01% aqueous solution has a dark-redand the alkaline solution a blue-violet color. The reagent is easily soluble in alcohol and acetone, whereas it is difficult to solve in chloroform and ethylene-chloride. The solutions of gallion form colored compounds with several elements. A compound of blue color is formed with gallium. Gallion changes its color between $p_{\rm H}$ 3,8 and 5,8 from red to blue-violet. Be-

Card 1/4

tween $p_{\rm H}$ 5,8 and 13 the blue-violet color does not change.

SOV/75-13-4-11/29 The Photometric Determination of Gallium by Means of Gallion

With a further increase of the $p_{\overline{H}}$ -value the color changes to pink and attains the same shade at p_{H} about 14 as at p_{H} 4. The optimum $\mathbf{p}_{\mathbf{H}}$ -value for the determination of gallium is at $P_{\rm H}$ 2,4 - 3,4. The maximum of light-absorption is at 600 m μ . A biphthalate buffer solution is useful for standardization, though it depends in a high degree on temperature. The crystals separate if temperature drops to $+16^{\circ}$. At optimum conditions $(p_{_{
m H}}$ about 3,2) the susceptibility of the determination amounts to 0,2 μ gallium in 5 ml solution. If the solution is heated, the final color is reached after 1 1/2 to 2 minutes, but at room temperature only after 10 to 15 minutes. Determination can be carried out by means of colorimetric microtitration. The maximal tolerable quantities of foreign ions which do not yield colored compounds with gallion (Ge, Pr, La, Mn, Co, Zn, Li, In, Rh, Tl, Re, Pb, Mg, Ca, Be, Al) were found and are mentioned. Aluminum and indium form colored compounds with gallion at p_H about 3,2. Gallium, however, can be determined in stronger acid compounds if there is a 50-fold excess of

Card 2/4

SOV/75-13-4-11/29

The Photometric Determination of Gallium by Means of Gallion

these two elements. The influence of iron, which is disturbing to a high degree, can be removed by a hydrochloric acid solution of hydroxylamine. Copper likewise exercises a disturbing influence and has to be reduced by means of a solution of sodium sulfate before its determination. After adding the hydroxylamine solution, the $p_{\rm H}$ -value of the solution has to be brought to 2,4 - 3,2 by sodium acetate. Prior to its determination in alumosilicates, aluminum alloy, zinc

mination in alumosilicates, aluminum alloy, zinc blende, and other materials containing only traces of gallium, the latter has to be separated. This is usually done by extraction by means of organic solvents from hydrochloric acid solution (Refs 3, 5, 7). The extraction with isoamylalcohol and ethyl acetate from 6n hydrochloric acid solution proved to be the most useful. The conditions for the separation and the determination of gallium in various objects are mentioned in detail. There are 4 figures, 7 tables, and 7 references, 2 of which are Soviet.

ASSOCIATION: Card 3/4

Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh

The Photometric Determination of Gallium by Means of Gallion

reaktivov, Moskva (All-Union Scientific Research Institute of Chemical Reagents, Moscow)

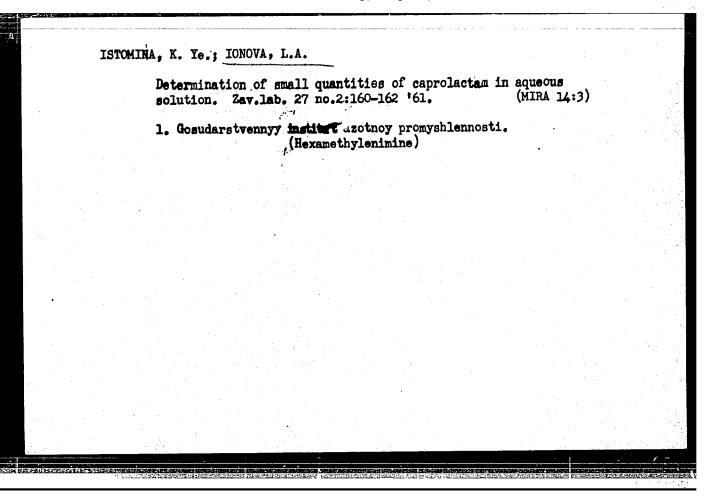
SUBMITTED:

September 20, 1956

1. Gallium--Determination 2. Gallion--Properties 3. Reagents

--Synthesis 4. Photometry

Card 4/4



IONOVA, L.V.; MOROZOVA, Ye.A.

Use of formyl protection in the synthesis of lysine peptides. Zhur.ob. khim. 34 no.2:403-407 F '64. (MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

IONOVA, L.V.; MOZZINUKHIN, D.D.; MOROZOVA, Ye.A.

Synthesis of tetrapeptides. Zhur. ob. khim. 34 no. 3:769-772 Mr '64. (MIRA 17:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

MOROZOVA, Ye.A.; ICNOVA, L.V.; PLINER, S.A.

Cyclization of tetrapeptides by using ethoxyacetylene as a condensation agent. Dokl. AN SSSR 157 no.1:203-206 J1 '64 (MIRA 17:8)

1. Predstavleno akademikom A.N. Belozerskim.

MOROZOVA, Ye.A.; ZHENODAROVA, S.M.; IONOVA, L.V.; GULYAYEV, N.N.

Cyclization of peptides with the use of ethoxyacetylene as a condensing agent. Zhur. ob. khim. 34 no.9:2859-2863 S '64.

(MIRA 17:11)

1. Moskovskiy gosudarstvennyy universitet.

MOROZOVA, Ye.A.; ICHOVA, L.V.; DROBINSKAYA, N.A.

Synthes' of cyclization of glycylphenylalanine tetrapeptides.
Zhur. ob. khim. 34 no.12:3888-3890 D'64 (MIRA 18:1)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova.

IONOVA, L.Ye.

Leptospirosis infection at a Leningrad meat combine, according to data of 1957. Trudy Len.inst.epid. i microbiol. 18:193-201 158. (MIRA 16:7)

1. Iz kafedry epidemiologii Leningradskogo ordena Lenina instituta usovershenstvovaniya vrachey imeni S.M.Kirova i laboratorii osoboopasnykh infektsiy i rikketsiozov Leningradskogo instituta epidemiologii, mikrobiologii i gigiyeny imeni Pastera (nauchny rukovoditel³ - prof. K.N.Tokarevich).

(LENINGRAD—LEPTOSPIROSIS)

(LENINGRAD PACKING-HOUSE WORKERS DISEASES AND HYGIENE)

IONOVA, L. Ye. Cand Med Sci -- (diss) "Leptospirosis infection under conditions of a large city (Epidemiological and laboratory data)." Len, 1959. 15 pp (State Order of Lenin Inst for the Advanced Training of Physicians im S. M. Kirov). (KL, 41-59, 106)

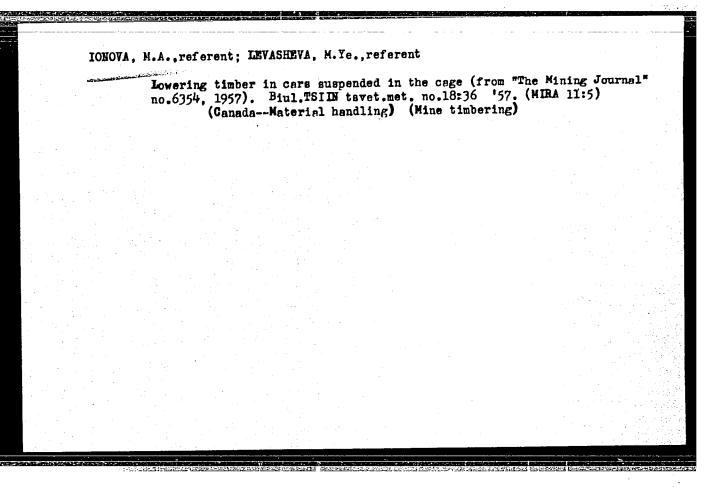
-42-

POPOVA, Ye.M.; IONOVA, L.Ye.

Cases of water fever disease caused by Leptospira of the Tarasov type. Trudy Len.inst.epid.i mikrobiol. 20:146-156 '59.

(MIRA 16:1)

l. Is laboratorii osobo opasnykh infektsiy i rikketsiosov Leningradskogo instituta imeni Pastera i kafedry epidemiologii Gosudarstvennogo instituta dlya usovershemstvovaniya vrachey. (LEPTOSPIROSIS)



UDALKINA, H.B., referent; IONOVA, M.A., referent.

Shaft sinking in Roan Antilon and Pen Stock mines. Biul. TSIIN tsvet. met. no.22:32-36 57.

(Southern Enodesia—Copper mines and mining)

Case of heart surgery. Knirurgiia 35 no.10:116-117 0 '59. 1. Iz knirurgicheskogo otdeleniya (zav. M.A. Ionova) bol'nitsy imeni M.K. Krupskoy Krivogo Roga Dnepropetrovskoy oblasti (glavnyy vrach G.P. Pidpalyy). (HEART--SURGERY)

IONOVA, M.A., Cand Agr Sci — (diss) "Study of the paculiarities of the development of the biological particularities of the development of the apricot with relation to its selection for winter resistance." Michurinsk, 1958, 27 pp with illustrations (Min of Agr USSR. Fruit and Vegetable Inst im I.V. Michurin) 100 copies (KL, 50-58, 126)

- 92 -

IONOVA, M.A.

Duration of the dormant stage of apricots in the central fruit growing zone. Dokl.Akad.sel'khos. 21 [i.e.23] no.12:19-22 | 158. (MIRA 12:1)

1. Krymskiy pomologicheskiy rassadnik Vsesoyuznogo instituta rasteniyevodstva. Predstavleno akademikom P.M.Zhukovskim.

(Apricot)

SHURAKOV, F.V., kand. sel'khoz. nauk; MOSKALENKO, K.M., tekhnik;
MOSTOLOVITSA, K.Yu., tekhnik; IONOVA, M.A., kand. sel'khoz.
nauk; TOLKACHEV, V.P., nauchn. sotr.; ORLOV, G.K., tekhnik;
SOLOV'YEVA, T.F., tekhnik; ZHILYAKOVA, O., red.izd-va;
GLIKMAN, N., red. izd-va; ISUPOVA, N., tekhn. red.

[Catalog of fruit crop varieties of the All-Union Scientific Research Institute of Plant Growing in the Crimea] Katalog sortov plodovykh kul'tur Vsesoiuznogo nauchno-issledovatel'-skogo instituta rastenievodstva v Krymu. Simferopol', Krymizdat, 1960. 230 p. (MIRA 17:1)

1. Leningrad. Vsesoyuznyy institut rasteniyevodstva. Krymskiy pomologicheskiy rassadnik.

(Crimea--Fruit--Varieties)

IONOVA, N. I., Candidate Med Sci (diss) -- "Intraduodenal novocaine irrigation in the treatment of dyskinesia of the gall ducts and noncomplicated cholecystitis".

Kazan', 1959. 12 pp (Kazan' State Med Inst), 200 copies (KL, No 25, 1959, 140)