24(6) AUTHOR:

Estrin, M.I.

507/57-28-10-24/40

TITLE:

On the Statistical Theory of the Scale Factor (K statisticheskoy teorii masshtabnego faktora)

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, Vol 28, Nr 10, pp 2260-2261 (USSR)

ABSTRACT:

The influence of the dimensions of a body upon its critical rupture stress can satisfactorily be explained only from a statistical viewpoint (Refs 1,2). In this letter to the editor one of the variants of the theory of the scale factor is advanced. This variant-is based upon a utilization of the analysis of random steady functions. Formula (6) for the stress in the cross section is derived. This formula specifies the critical rupture stress versus length of the sample function. The curve obtained by means of this formula differs only insignificantly from that presented in reference 3. There are 1 figure and 3 references,

, 2 of which are Soviet.

SUBMITTED:

April 14, 1958

Card 1/2

On the Statistical Theory of the Scale Factor

sov/57-29-10-24/40

Card 2/2

ESTRIN, M.I., inshener.

Interchangeable equipment of American bulldozers. Stroi. dor.

10 no.7:24-3 of cover. Jl-Ag '47.

(United States-Bulldozers) (Bulldozers-United States)

ESTRIN, N. I.

COLOVIN, P. M. - st. nauchn. sotr. i, ESTRIE, H. I. - inch.

Leningradskiy filial Vseseyuznego nauchno-issledovatel'sko o instituta stroitel'nego i dorozhnego mashinostroyeniya

ISSLETOVANIYE MASHIF DLYA TSEMENTNO-BETONNYKH POKRYTIY

Page 11:3

SO: Collection of Annotations of Scientific Pesearch Work on Construction, completed in 1950. Moscow, 1951

ESTRIN, M. I.

GOLOVIN, P. E., St. Nauchn.Sotrudnik i RABINOVICH, S. S., St. Nauch. Sotrudnik i <u>ESTRIN. N. I.</u>, Inzhener. Leningradskiy filial Vsesoyuznogo nauchno-issledovatel skogo instituta stroitelnogo i dorozhnogo mashinostroyeniya.

POLEVYYE ISPITANTYA GREIDER_ELEVATORA D-192 S TSEL'YU OPREDELENIYA YEGO KON-STRUKTIVNYKH I ESKPLOATATSIONNYKH KACHESTV I PROIZVODSTVENNYKH POKAZATELEY.

page 144

SO: Collection of Annotations of Scientific Research Work on Construction, Completed in 1950, Moscow, 1951

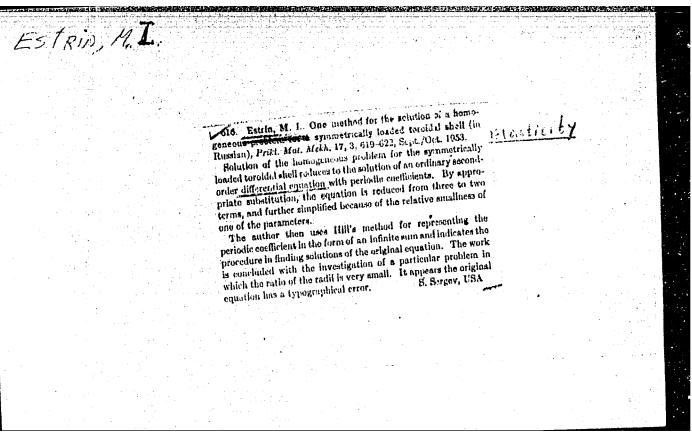
CSTRIN; Mil.

ANOKHIN, A.I., doktor tekhnicheskikh nauk, prof. [deceased]; BORODACHEV, I.P. kand. tekhnicheskikh nauk; BROMBERG, professor; VASIL: YEV, A.A., laureat Stalinskoy premii; PETERS, kandidat tekhnicheskikh nauk; POLOSIN-NIKITIN, S.M., kandidat tekhnicheskikh nauk; PRUSSAK, B.N., inzhener; RITOV, M.H., inshener; FEYNBERG, G.M., inzhener; ESTRIN, M.I., inshener; ALEKSEYEV, A.P., inshener; BIRULYA, A.K., professor, doktor tekhnicheskikh nauk; BOLDAKOV, Ye.V., doktor tekhnicheskikh nauk; BOCHIN, V.A., laureat Stalinskoy premii, inzhener; VOLKOV, M.I., professor; GIBSHMAN, Ye. Ye., professor, doktor, technicheskikh nauk; DONCHENKO, V.G., dotsent, kandidat tekhnicheskikh nauk; ZHURAVLEV, A.Ya., laureat Stalinskoy premii; IVANOV, N.N., laureat Stalinskikh premii, professor, doktor tekhnicheskikh nauk; KUVASOV, A.S., inzhener; MEKRASOV, V.K., kandidat tekhnicheskikh nauk; POLOSIN-NIKITIN, S.M., dotsent, kandidat tekhnicheskikh nauk; KHLEBNIKOV, Ye.L., laureat Stalinskoy premii, professor; ORNATSKIY, N. V., doktor technicheskikh nauk, professor, redaktor; VOSKRESENSKIY, N. N., redaktor; KOVALIKHINA, N.F., tekhnicheskiy redaktor

[Manual for highway engineers; road building machinery] Spravochnik inshenera doroshnika; doroshno-stroitel'nye mashiny. Moskva, Izdvo dorozhno-tekhn. lit-ry. Gushosdora MVD SSSR, 1952. 698 p.
[Microfilm] (MIRA 9:2)

(Road machinery)

Now types of plant and machinery for construction of concrete tond markings. M. J. Estima and vo. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1933, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7, 11-77). M. G. Shannday (McMan. Stroit, 1934, 10. No. 7,



ESTRIN, M. I.

ESTRIN, M. I. -- "A Study of Local Stresses in Intersecting Cylindrical Casings." Min Higher Education USSR. Moscow Order of Labor Red Banner Construction Engineering Institute imeni V. V. Kuybyshev. Moscow, 1955. (Dissertation for the Degree of Candidate in Technical Sciences.)

So; Knizhaya Letopis' No 3, 1956

ESTRIN, I. I.,

"Experimental Study of the Process of Layer by Layer Cutting of Ground by the Blades of a Carryall." (Dissertation for Degree of Candidate for Technical Sciences) Hin Higher Education USSR, Moscow Automobile Roads Inst iment V. H. Holotov, Moscow, 1955

SO: N-1036 28 Mar 56

Relationship between components of the reaction resistance of the reaction

ESTRIN M.I. kandidat tekhnicheskikh nauk.

Investigation of the cutting pattern of elevator-type grader blades. Stroi.i dor.mashinostr. 1 no.10:21-23 0 '56. (MLRA 9:11)

(Earthmoving machinery)

ESTRIN, M.I., kandidat tekhnicheskikh nauk; RABINOVICH, S.S., inzhener.

Concrete pavers with sliding forms. Stroi. i dor. mashinostr. 2 no.4:38-39 Ap '57. (MIBA 10:6) (Pavements, Concrete) (Road machinery)

ESTRIN, M.I., kand. tekhn. nauk.

Investigating soil cutting by flat and disc-shaped blades on grader elevators. Stroi. i dor. mashinostr. 2 no.11:18-21 N '57.

(Excavating machinery)

(MIRA 17:1)

ESTRIN, M.I., kand.tekhn.nauk; KAL' MANOVICH, E.L., kand.tekhn.nauk

Investigating basic parameters of concrete vibrators used in concrete finishing machines. Sbor.trud.VNIIStroidormash.Lenfil. no.16:68-77 '57. (MIRA 12:7) (Road machinery) (Pavements, Concrete)

ESTRIN, MI

25(2)

PHASE I BOOK EXPLOITATION

SOV/2165

- Akademiya stroitel'stva i arkhitektury SSSR. Institut stroitel'nykh konstruktsiy
- Issledovaniya po voprosam teorii plastichnosti i prochnosti stroitel'nykh konstruktsiy; sbornik statey (Investigating of Problems in the
 Theory of Plasticity and Strength of Engineering Structures; Collection of Articles) Moscow, Gosstroyizdat, 1958. 211 p. 2,500
- Ed.: A.R. Rzhanitsyn, Corresponding Member, Academy of Building and Architecture, USSR, Professor, Doctor of Technical Sciences; Ed. of Publishing House: N.O. Yegorova; Tech. Ed.: P.G. Gelenson.
- PURPOSE: This collection of articles is intended for scientific workers concerned with the theory of structural design.
- COVERAGE: The book consists of articles on the theory of plasticity, the dynamics of nonelastic systems, and the theory of elasticity. The articles deal with investigations of these problems in 1956

Card 1/6

Investigating of Problems (Cont.)

SOV/2165

and 1957 at the Tsentral'nyy nauchno-issledovatel'skiy intitut stroitel'nykh konstruktsiy, ASIA SSSR (Central Scientific Research Institute of Structures, Academy of Building and Architecture, USSR). This collection of articles is the fourth of a series written by staff members of the Laboratory for Problems of Strength and the Laboratory of Structural Mechanics of TsNIISK. References follow most of the articles.

TABLE OF CONTENTS:

Foreword

3

Rzhanitsyn, A.R. [Corresponding Member, Academy of Building and Architecture, USSR, Doctor of Technical Sciences, Professor]. Design of Shells by the Method of Limit Equilibrium 7 As a base for his investigation, the author uses the simplified kinematic method for analysis of elastoplastic systems, which takes the effect of strain hardening and nonlinear deformation into account. He presents a number of solutions for the state of failure of thin-walled structures, such as thin plates and slightly curved and cylindrical shells. Use of this method for the design of reinforced concrete shells is also explained.

Card 2/6

Investigating of Problems (Cont.)

SOV/2165

Rzhanitsyn, A.R. Problem of Creep From Temperature and Humidity Effect

36

The author discusses a method of calculating creep caused by changes of temperature and humidity. The method includes the use of a variable scale of conditional time. The scale varies with temperature and humidity, while the properties of creep are not affected. This method solves the problem of calculating creep of a stretched bar during periodical wide-range temperature changes and the problem of calculating stresses generated during the drying of a rigidly fastened thin plate or film. This method is also satisfactory for solving creep problems in green concrete during setting time.

Rzhanitsyn, A.R. Limit Equilibrium of a Rectangular Plate Under a Concentrated Load Applied at an Arbitrary Point 50
The author discusses types of plate failure occurring at various positions of concentrated load.

Rzhanitsyn, A.R. The Problem of Movement of Elasto-plastic Beams and Plates Loaded Beyond the Limit of Their Carrying Capacity 62 Card 3/6

a Pushlong (Cont.)	sov/2165
Investigating of Problems (Cont.) The article discusses sudden loading, during which of a beam does not change in time. Also discussed mal principle for determining the true form of move beam or a plate under steady loading exceeding the	ment of a
capacity of the structure.	

the T	iyev, G.A. [Candidate of Technical Sciences]. Some Prob Propagation of Compression Waves in Soil The theory of the propagation of compression shock waves ideally loose compressible soil is discussed. Calculati based on this theory are useful for determining pressure underground structures during surface blast loading.	ons	of · 72 ·
ι	underground bords and		

Genivev, G.A.	Some Problems in the Dynamics of Visco-plastic	123
Media Differential equations for plane steady motion of a visco- plastic medium are derived, and an approximate method for their solution is discussed.		

0.10 = 1		13 ¹
Geniyev, A rel	G.A. Problem of Strength of Concrete atively simple analytical expression for the strength and property of concrete at an armodel of concrete at a presented showing the behavior of concrete at	_

Investigating of Problems (Cont.)

SOV/2165

compression and tension and giving results which agree with experimental data.

Estrin, M.I. [Candidate of Technical Sciences]. Theory of the Unsteady Motion of a Perfectly Plastic Body
Some problems of the dynamics of a perfectly plastic body under conditions of plane deformation are discussed.

Estrin, M.I. Design of Elastic Systems for Stationary Random Ef155
fects

The problem of the effect of occasional

The author analyzes the problem of the effect of occasional stationary loads (wind, temperature) on the elastic and non-linearly elastic systems by using the theory of stationary random functions. Formulas for relatively simple calculation of numerical mean values of displacements and deflections are derived.

Mileykovskiy, I.E. [Candidate of Technical Sciences]. Design of Massive Plates by the Variational Method Using Resolvent Functions for Displacements

card 5/6

Investigating of Problems (Cont.)

sov/2165

The author reduces the three thermoelastic DuHamel-Neumann equations to one equivalent polyharmonic resolvent equation of the sixth order (for each resolvent function) and uses the variational method to reduce the three-dimensional problem to a two-dimensional one. The application of resolvent functions to the problem of designing thick plates is shown.

AVAILABLE: Library of Congress (QA931.A55)

card 6/6

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ESTRIA ACT
ESTRIN, M.I., kand. tekhn. nauk.

A set of machines for mechanizing the construction of concrete pavements. Stroi. i dor. mashinostr. 3 no.1:17-20 Ja '58.

(Road machinery) (Pavements, Concrete) (MIRA 11:1)

Designing vibration bars for concrete finishing machines. Stroi.
i dor. mashinostr. 3 no. 8:16-18 Ag '58. (MIRA 11:8)
(Concrete construction)

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Operations of some foreign rotary and milling snow plows. Stroi. i dor. mashinostr. 3 no.9:33-36 S '58. (MIRA 11:10) (Snow plows)
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ESTRIN, M.I., kand.tekhn.nauk

Efficient conditions for ramming cement concrete by the new D-376 concrete finishing machine. Stroi. i dor. mashinostr. no.4:16-18 Ap 158. (MIRA 11:4)

(Pavements, Concrete) (Road machinery)

SOV/179-59-2-22/40

AUTHOR: Estrin, M. I. (Moscow)

TITIE: Calculation of Cylindrical Shells Clamped on an Inclined Contour (Raschet tsilindricheskoy obolochki, zakreplennoy po kosomu konturu)

PERIODICAL: Izvestiya Akademii nauk SSSR OTN, Mekhanika i mashinostroyeniye, 1959, Nr 2, pp 151-155 (USSR)

ABSTRACT: The paper deals with an approximate method of solving the problem of a cylindrical shell in which the boundary conditions are given along a contour defined by the intersection of the shell with a plane inclined to its axis. Such shells are often encountered as duct elements, gasholders, aerodynamic tubes, etc. Following Vlasov (Ref 1) and Gol'denveyzer (Ref 2), the differential equations for the shell are set up and solved approximately for a clamped

Card 1/2

SOV/179-59-2-22/40

Calculation of Cylindrical Shells Clamped on an Inclined Contour contour and for a supported contour. In the first case, graphs are given showing the bending moments and stresses in the shell. Thanks are expressed to V. Z. Vlasov for advice and help during the course of the work. There are 3 figures and 4 Soviet references.

SUBMITTED: September 27, 1957.

Card 2/2

Determining the manner of soil rising along the working face of blades in cutting. Stroi.i dor.mashinostr. 4 no.9:22-23 (MIRA 12:11)

(Graders (Earthmoving machinery))

ESTRIN, M.I., kand.tekhn.nauk; RITOV, M.N., kand.tekhn.nauk New heavy-duty trailer with 20-ton capacity. Stroi.i dor. mashinostr. 4 no.10:15-16 0 159. (MIRA 13: (Truck trailers) (MIRA 13:2)

Foreign machinery for constructing cement-concrete pavements. Stroi.
i dor.mashinostr. 5 no.3:36-40 Mr '60. (MIRA 13:6)
(Road machinery)

84953

24 4100

1208, 1385

\$/020/60/135/001/009/030 B006/B056

11.2320 AUTHOR:

TITLE:

The Equations of the Dynamics of a Compressible Plastic Medium

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 1, pp.36-39

TEXT: The author of the present paper investigates an approximative variant of equations describing the two-dimensional motion of a plastic medium; other variants were investigated in Refs. 1-3. The system of equations describing the state of the medium consists of: plasticity condition

 $(\sigma_{x} - \sigma_{y})^{2} + 4\tau_{xy}^{2} = 4k^{2}, \text{ coaxiality condition}$ $\frac{2\tau_{xy}}{\sigma_{x}^{-\sigma_{y}}} = \frac{\hat{\gamma}_{xy} - \hat{\tau}_{xy}/G}{\hat{\epsilon}_{x}^{-\hat{\epsilon}_{y}} - (\hat{\sigma}_{x}^{-\hat{\sigma}_{y}})/2G}, \text{ and the incompressibility condition}$

 $\dot{\epsilon}_{x}$ + $\dot{\epsilon}_{y}$ = 0. Instead of the latter it is possible, because a two-dimensional problem is being investigated, to use the condition $\dot{\epsilon}_{\chi}$ + $\dot{\epsilon}_{y}$ $=\frac{1}{2K}(\mathring{\sigma}_{x}+\mathring{\sigma}_{y})$. The motion of the medium is described by the system

84658

The Equations of the Dynamics of a Compressible S/020/60/135/001/009/030 Plastic Medium S/020/60/135/001/009/030

$$\frac{\partial \chi}{\partial x} - 2 \sin \varphi \frac{\partial \varphi}{\partial x} + \cos 2\varphi \frac{\partial \varphi}{\partial y} - \frac{\mathbf{Q}}{2k} \frac{\partial \mathbf{u}}{\partial t} = 0; \quad \frac{\partial \chi}{\partial y} + \cos 2\varphi \frac{\partial \varphi}{\partial x} + \sin 2\varphi \frac{\partial \varphi}{\partial y} - \frac{\mathbf{Q}}{2k} \frac{\partial \mathbf{v}}{\partial t}$$

$$= 0; \quad h \frac{\partial \chi}{\partial t} - \frac{\partial \mathbf{u}}{\partial x} - \frac{\partial \mathbf{v}}{\partial y} = 0; \quad h_1 \frac{\partial \varphi}{\partial t} + \sin 2\varphi \left(\frac{\partial \mathbf{u}}{\partial x} - \frac{\partial \mathbf{v}}{\partial y}\right) - \cos 2\varphi \left(\frac{\partial \mathbf{u}}{\partial y} + \frac{\partial \mathbf{v}}{\partial x}\right) = 0;$$

Q - density, h = 2k/K, h₁ = 2k/G; σ_{x} , σ_{y} , τ_{xy} - the components of the stress tensor, \mathcal{E}_{x} , \mathcal{E}_{y} , γ_{xy} - the components of the deformation tensor, u, v - the velocity tomponents. Using these equations, the propagation of a weak discontinuity and the behavior of the wave fronts is investigated. A problem outlined in Fig. 2 is briefly discussed, and finally the special case is investigated, in which h₁ = 0 and therefore, according to equation (5) for the propagation rate of a weak discontinuity it holds that this rate D = $c_1 \cos 2$ ($\phi - \alpha$) ($c_1 = \sqrt{2k/Qk_1}$, $\alpha = \phi - \gamma$). The author

investigated the self-simulating motion of the medium and gives a geometrical interpretation of the result. C. A. Geniyev is mentioned. There are figures and 5 references: 4 Soviet and 1 US.

ASSOCIATION: Tsentral nyy nauchno-issledovatel skiy institut stroitel nykh konstruktsiy (Central Scientific Research Institute

Card 2/3 of Building Constructions)

84658

The Equations of the Dynamics of a Compressible Plastic Medium

S/020/60/135/001/009/030

B006/B056

PRESENTED:

June 8, 1960, by L. I. Sedov, Academician

SUBMITTED:

June 3, 1960



Card 3/3

88769

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s/040/60/024/006/024/024 C 111/ C 333

AUTHOR: Estrin. M. J. (Moscow)

TITLE: On the Application of the Self-Modeling Solutions to Dynamic Problems of a Plastic Medium

PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol. 24, No.6, pp. 1140-1142

TEXT: The author considers the system of equations which describes the instationary motion of an ideal plastic medium under plane deformation. In this system the stresses are expressed by two unknown functions χ and φ according to the formulas

$$\begin{bmatrix} \sigma_x \\ \sigma_y \end{bmatrix} = k(2) + \cos 2\varphi$$
, $\sigma_{xy} = k \sin 2\varphi$.

After introducing nondimensional variables (especially nondimensional time T=t/t) the author obtains a system which passes over into the equations of the self-modeling motions for $t\to\infty$ (see(Ref.6)). In order to obtain approximative solutions corresponding to large t-values, the author sets up the unknown functions χ , φ , u, v as series in τ

88769

S/040/60/024/006/024/024 C 111/ C 333

On the Application of the Self-Modeling Solutions to Dynamic Problems of a Plastic Medium

$$\chi = \chi^{(0)} + \tau \chi^{(1)} + ..., \quad u = u^{(0)} + \tau u^{(1)} + ...$$

$$\varphi = \varphi^{(0)} + \tau \varphi^{(1)} + ..., \quad v = v^{(0)} + \tau v^{(1)} + ...$$

By substituting (4) into the equations of motion, the author obtains systems of equations for determining $\chi^{(1)}$, $\chi^{(1)}$, ... etc.

The zero approximation (χ (0), φ (0), u(0), v(0) corresponds to the self-modeling solution. For the first approximation one obtains a hyperbolic system with the characteristics

(7)
$$\frac{d\mu}{d\lambda} = tg(\varphi^{(0)} + \frac{\pi}{4})$$

where $\lambda = \frac{x}{at}$, $\omega = \frac{y}{at}$ (a = $\frac{2k}{g}$) are the nondimensional spatial coordinates. For the numerical solution of the system the author refers to the difference method (Ref.6).

Card 2/3

88769 s/040/60/024/006/024/024 C 111/ C 333

On the Application of the Self-Modeling Solutions to Dynamic Problems of a Plastic Medium

L. J. Sedov, G. J. Barenblatt and Ya. B. Zel'dovich are mentioned in the paper.

There is 1 figure, and 7 Soviet references.

[Abstracter's note: (Ref.6) is a paper of the author: On the Theory of the Instationary Motion of an Ideal-Plastic Medium. Sbornik "Issledovaniya po voprosam teorii plastichnosti i prochnosti stroitel'nykh konstruktsiy", 1958. (Volume "Investigations on Questions of the Theory of Plasticity and Stability of Constructions)]. SUBMITTED: April 14, 1960

Card 3/3

KIEMENT'YEV, V.G., inzh.; SHAIMAN, D.A., kand.tekhn.nauk; ESTRIN, M.I., kand. tekhn.nauk

Universal slope planers. Stroi. i dor. mash. 6 no.2:8-10 F ¹61. (MIRA 14:5)

ESTRIN, M.I., kand.tekhn.nauk; KLEMENT'YEV, V.G., inzh.

Designing equipment for laying cement-concrete pavements. Stroi.i dor.mash. 6 no.4:15-17 Ap !61. (MIRA 14:3) (Pavements, Concrete)

EVENTOV, I.M.; LAZAROV, V.V.; ESTRIN, M.I., inzh., retsendent [Emalsification machines and plants] Emul'ciorgye mashiny i ustanovki. Moskva, Mashinostroenie, 1962. 123 p. (MIR. 17.9)

KAZAKOV, Aleksandr Aristarkhovich; ZHIL'TSOV, P.N., inzh., retsenzent; ESTRIN, M.Z., inzh., retsenzent; MARENKOVA, G.I., inzh., red.; KHITROVA, N.A., tekhn. red.

[Electric interlocking of switches and singular systems]
Elektricheskaia tsentralizatsiia strelok i signalov. 4., perer.
izd. Moskva, Transsheldorizdat, 1962. 315 p. (MIRA 16:1)
(Railroads—Signaling—Interlocking systems)
(Railroads—Signaling) (Railroads—Switches)

ESTRIN, P.I.

Plenum of the Solar Engineering Section of the Central Administration of the Scientific and Technical Society of Power Engineering. Geliotekhnika no.1:73-74 '65. (MIRA 18:5)

1. Chlen byuro geliotekhnicheskoy sektsii TSentral'nogo pravleniya nauchno-tekhnicheskogo obshchestva energeticheskoy promyshlennosti.

KATSENOVICH, R.A.; KETKO, M.I.; SADYKOV, A.S.; ESTRIN P.I.

Treatment of digestive diseases with mineral waters of Uzbekistan. Izv.AN Uz.SSR.Ser.med. no.4:15-20 '58.

(MIRA 12:5)

1. Uzhekskiy gosudarstvennyy nauchno-issledovatel skiy institut kurortologii i fizioterapii im. Semashko.
(UZBEKISTAN--MINERAL WATERS) (DIGESTIVE ORGANS--DISEASES)

	1	
L 24816-66 EWP(*)/EWT(m) WW/WH SOURCE CODE: UR/0413/66/000/003/0072/0072		
AUTHORS: Veynberg, V. B.; Estrin, P. I.; Calant, Ye. I.; Afon'kin, A. L.		
ORG: none		
TITLE: Method for fusing fiber packets. Class 42, No. 178521		
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 72	1	
TOPIC TAGS: fiberglass, charactiles, light scattering glass, vacuum.		
ABSTRACT: This Author Certificate presents a method for fusing fiber packets by compressing the packet (situated in a softened glass sheath) in vacuum. To obtain light-transmitting packets of high resolution and large dimensions, the external pressure on the packets is produced by compressed air via a heated glass sheath softened by application of heat. To obtain phocons of axial symmetry, the circular uniform pressure is realized by means of a gas, while those regions where the specimen is not to be compressed are protected by high-melting glass rings.		Ĺ
SUB CODE: 11/ SUBM DATE: 240ot64		
Card 1/1 6 666.1.036.9		

ESTRIN, P.L.

Treatment of some diseases of the digestive system with Tashkent mineral water. Trudy Uz. gos. nauch.-issl. inst. kur. i fizioter. no.15:115-120 '59. (MIRA 14:9)

(MINERAL WATERS) (DIGESTIVE ORGANS_DISEASES)

ESTRIN, P.L.; SHATALIN, A.S.

Influence of Tashkent mineral water on the blood sugar content. Trudy Uz. gos. nauch.-issl. inst. kur. i fizioter. no.15:163-174 '59. (MIRA 14:9)

(BLOOD SUGAR)

(MINERAL WATERS)

, **, .** ,

SULTANOV, D. (g.Baku); ESTRIN, R. (g.Baku)

Improve working conditions for oil-field workers. NTO 3 nc.6:48-49 Je *61. (MIRA 14:6)

1. Predsedatel sektsii tekhniki bezopasnosti Azerbaydzhanskogo respublikanskogo pravleniya nauchno-tekhnicheskogo obshchestva neftyanoy i gazovoy promyshlennosti (for Sultanov). 2. Uchenyy sekretar sektsii tekhniki bezopasnosti Azerbaydzhanskogo respublikanskogo pravleniya nauchno-tekhnicheskogo obshchestva neftyanoy i gazovoy promyshlennosti (for Estrin).

(Azerbaijan—Oil fields—Safety measures)

SADOVNIKOV, V.; YASINOVSKIY, M.; ESTRIN, R.; ABRAMOV, G.; FRIDMAN, Ye.

Technical information. Okhr. truda i sots. strakh. 6 no.8:41-44
Ag '63. (MIRA 16:10)

MANVELYAN, B.G., inshener; SKORNYAKOV, M.V., inshener; ESTRIN, R.Ya., inshener.

Double-seat supports used in repairing. Besep. truda v prem. 1 ne.2:
27-28 F '57.

(011 fields--Equipment and supply)

MANVELYAN, B.G., inzh.; ESTRIN, R.Ya., inzh.

Submarine geophysical prospecting. Bezop.truda v prom. 3 no.1:14-15 Ja '59. (MIRA 12:3)

1. Vsesoyuznyy nauchno-issledovatel skiy institut po tekhnike bezopasnosti v neftyanoy promyshlennosti. (Prospecting--Geophysical methods) (Petroleum in submerged lands)

ESTRIN, R. Ya., insh.; MANVELYAN, E.G. insh.; ARZUMANOV, A.A., insh.

Safety measures in completing oil wells. Bezop.truda v prom 4 no.6:14-17 Je *60. (MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po tekhnike bezopasnosti v neftyanoy promyshlennosti. (Oil well drilling-Safety measures)

ESTRIN, R.Ya.; ARZUMANOV, A.A.; MANVELYAN, E.G.

Safety measures in the testing of gas wells. Gas. prom. 5 no. 12:12-14 D :60. (MIRA 1 (MIRA 14:1) (Gas wells-Safety measures)

HAGIYEV, A.M., insh.; ESTRIM, R.Ya., insh., ARZUMANOV, A.A. (Baku)

Safety engineering in coating pipelines with bituminous mastics.

Stroi. truboprov. 5 no.12:24 D '60. (MIRA 13:12)

(Pipelines) (Protective coatings)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041222

ESTRIN, R.Ya., inzh.; ARZUMANCV, A A.

Safety measures in oil well completion by air injection. Bezop. truda v prom. 5 no.6:12-13 Je '61. (MIRA 14:6)

 Vsesoyuznyy nauchno-issledovatel*skiy institut po tekhnike bezopasnosti v neftyanoy promyshlennosti.
 (Oil fields--Production methods)

ZAYCHENKO, V.; ESTRIN, R.

Checking for leakage of underground gas pipelines. Nov.neft.tekh:
Nefteprom.delo no.6:35-38 154. (MIRA 14:10)
(Gas, Natural—Pipelines)

ESTRIN, R.Ya.; MANVELYAN, E.G.

Safety methods and equipment in performing complicated repair work from double pole masts. Trudy VNIITB no.10:33-39 '58. (MIRA 15:5)

(Oil wells-- Safety measures)

Safety problems in completing oil and gas wells. Trudy VNIITB no.13:5-20 160. (MIRA 14:12)

ESTRIN, R.; ARZUMANOV, A.

Security measures in well drilling. Okhr. truda i sots. strakh. 5 no.7:36 Jl '62. (MIRA 15:7) (Oil fields—Safety measures)

ESTRIN, R.Ya., inzh.; KHACHATUROVA, N.S., inzh.; MEDVEDEVA, T.M., inzh.

Safety problems in collecting and storing oil and gas. Bezop.
truda v prom. 6 no.12:8-10 D '62. (MIRA 15:12)
(Petroleum-Storage) (Gas-Storage)

ESTRIN, Rakhil! Yakovlevna; KAYESHKOVA, S.M., ved. red.; STAROSTINA, L.D., tekhn. red.

[Safety measures in the production of gas fields] Tekhnika bezopasnosti v gazovom khoziaistve na promyslakh. Moskva, Gostoptekhizdat, 1963. 140 p. (MIRA 16:8) (Oil fields--Safety measures) (Gas, Natural--Transportation)

ESTRIN, R. Ya.; KHACHATUROVA, N. S.

Safety requirements for the UB mobile units. Stroi. truboprov. 8 no.4:29 Ap *163. (MIRA 16:4)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel † skiy institut po tekhnike bezopasnosti, Baku.

(Bitumen)

ESTRIN, R.Ya.; FOLOCKOVA, V.V., ved. red.

[Safety technique when welding and cutting gas pipolines in operation] Tekhnika bezopasnosti pri egnevykh rabetakh na deistvuiushchikh gazoprovodskh. Moskva, Nedra, 1964. 44 p. (MIRA 17:8)

L 10692-63

ACCESSION NR: AP3001612

S/0064/63/000/004/0032/0036

AUTHOR: Brodyanskiy, V. M.; Leytes, I. L.; Marty*nov, A. V.; Semenov, V. P.; Estrin, S. M.

TITLE: Application of vortex effect in chemical engineering

SOURCE: Khimicheskaya promyshlennost, no. 4, 1963, 32-36

TOPIC TAGS: vortex effect, vortex tube

ABSTRACT: A survey of what has been done up to now with respect to the application of the vortex effect in chemical engineering. Authors define vortex effect as the division of gas into cold end hot flows during its expansion in the vortex tube. Various types of vortex tubes are discussed. Authors made a number of tests wherein they checked the characteristics of a vortex tube at different pressures under production-line conditions. This tube had a 40 mm diameter, two right-angled nozzles with spiral inlets. Interchangeable diaphragms of 18, 20, and 22 mm were used. The gas temperature at the inlet was 34-40C. Gas expenditure was 840-460 normal cubic meters per hour. The results are summarized in graphs which are discussed in detail. Treatment:

BRODYANSKIY, V.M.; LEYTES, I.L.; MARTYNOV, A.V.; SEMENOV, V.P.; ESTRIN, S.M.

Use of the vortex effect in chemical technology. Khim. prom. no.4:272-276 Ap '63. (MIRA 16:8)

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STRIZHEVSKIY, I.I. [Stryzhevs'kyi. I.I.]; KORDYSH, Ye.I. [Kordysh, IE.I.]; VORCNOVA, L.Ya.; MOKHOVA, V.S.; SOBODYR', S.G. [Sobodyr, S.H.]; SHLYAKHOVER, I.V.; ESTRIN, S.M.

Balloon filling with pyrolysis acetylene. Khim. prom.[Ukr] no.1: 69-71 Ja-Mr '65. (MIRA 18:4)
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25

EIF(c)/EWP(J)/EWA(c)/EWT(m) Pc-li/Pr-li RH L 35439-65 8/0063/65/010/001/0108/0108 ACCESSION NR: AP5006845 AUTHOR: Stringevekiy, I. I.; Kordysh, Ye. I.; Voronova, L. Ya; Mokhova, V. S.; Shlyakhover, I. V.; Sobodyr', S. C.; Letrin, S. M. TITLE: Filling of cylinders with acetylene hade by pyrolysis SOURCE: Vsesoyuznoye khimicheskoye obshchestvo. Zhurnal, v. 10, no.1, 1965, 108 TOPIC TAGS: acetylene pyrolysis, carbide based acetylene, propadiene, methyl acetylene, diacetylene, divinyl, chromatographic column, acetylene cylinder, organic solvent ABSTRACT: Unlike acetylene made from carbide, acetylene made by pyrolysis contains the following impurities: methyl acetylene, propadiene, divinyl, diacetylene, etc. The authors experimented with filling 40-liter cylinders with acetylene made by pyrolysis in order to determine the nature of the distribution acetylene made by pyrolysis in order to determine the nature of the distribution of these impurities during the emptying of the cylinders. The acetylene used had the following composition in %: C2H2 98-99.2; CO2 0.1-0.2; O2 0.05-0.1; propediene 0.2-0.3; methyl acetylene 0.2-0.3; divinyl 0.01-0.03; vinyl acetylene 0.03-0.05; discetylene 0.03-0.05. Prior to the experiments this acetylene was Cord 1/2

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ACCESSION NR: AP5006845		•	
subjected to a chromatographi In the course of experiments the rate of 0.5-0.6m3/hr in t it was found that, as the pre	with discharging of acety he presence of an ambient	lene from the cylinder at air temperature of 23°C	
acetylene emerging from the comount of the residual impurization of the diacetylene in sulting polymers are non-explorous mass is a distinctive ASSOCIATION: Gosudarstvennyy cheskogo sintema (State Instiguthersis)	ylinder increased, With ities in the cylinder dec organic solvents is extrosive. The acetylene cylchromatographic column. institut akotnoy promysh tute of Nitrogen Industry	increasing temperature the reases markedly. Polymer- emely slow, and the re- inder filled with the Orig. art. has: 2 figures. lennosti i produktow organ.	
acetylene emerging from the commount of the residual impurization of the diacetylene in sulting polymers are non-expl porous mass is a distinctive ASSOCIATION: Gosudarstvennyy cheskogo sintess (State Insti	ylinder increased, With ities in the cylinder dec organic solvents is extr osive. The acetylene cyl chromatographic column.	increasing temperature the reases markedly. Polymer- emely slow, and the re- inder filled with the Orig. art. has: 2 figures. lennosti i produktow organ.	
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acetylene emerging from the commount of the residual impurization of the discetylene in sulting polymers are non-expl porous mass is a distinctive ASSOCIATION: Gosudarstvennyy cheskogo sintesa (State Insti Synthesis) SUEMITTED: 20Hay64	ylinder increased, With ities in the cylinder dec organic solvents is extrosive. The acetylene cylchromatographic column. institut akotnoy promysh tute of Nitrogen Industry ENCL: 00	increasing temperature the reases markedly. Polymer- emely slow, and the re- inder filled with the Orig. art. has: 2 figures. lennosti i produktov organ and Products of Organic	

YEFIMOV, L.I.; KOROLENKO, T.F.; KHALIF, A.L.; ESTRIN, V.N.

Adsorption of heavier hydrocarbons from natural gases by means of free-falling particles of activated carbon. Trudy VNIIGAZ no.6:137-148 | 159. (MIRA 12:10) (Hydrocarbons) (Carbon, Activated)

VALEYEV, A.M.; GOLEV,Yu.D.; GOLEVA, Z.N.; GOLOVKO, R.Ye.; ZAVIYALOVA, B.A.;
ZARETSKIY, B.A.; ZVEREV, Ye.A., LIPINSKIY, F.A.; MANGUSHEV, I.Kh.;
MEYZLER, M.Kh.; MUTOVKIN, V.A.; RUDAKOV, Ya.D.; RUKOVANOV, B.P.;
KHASANOV, G.M.; ESTRIN, Z.I.; ZUDIN, B.A., red.; BORUNOV, N.I., tekhn. red.

[Adjustment and operation of equipment in the Novo-Ufimskii Heat and Electric Power Plant] Naladka i ekspluatatsiia oborudovaniia na Novo-Ufimskoi TETs. Moskva, Gos. energ. izd-vo, 1961. 175 p. (MIRA 14:9)
(Bashkiria—Electric power plants)
(Bashkiria—Heating from central stations)

ESTRINA, A.

Problems in selling agricultural machinery to collective farms.

(MIRA 16:9)

Vop. ekon. no.9:96-102 S '63.

(Farm mechanization)

BROKSH, M.M.; GVOZDEV, B.P.; ZAYTSEV, V.I.; ESTRINA, A.A.; SALTYKOV, A.L. Investigating a full-scale model of aspherical scrubber, a ball-shaped dust collector. Trudy VNIIGAZ no.21/29:172-182 '64. (MIRA 17:9)

BROKSH, M.M.; YERMOSHINA, M.S.; SALTYKOV, A.L.; ESTRINA, A.A.

Checking the liquid content in gas flow. Trudy VNIIGAZ no.21/29:183-195 '64. (MIRA 17:9)

ESTRINA, E. Ye.

BASA/Hedicine - Infecticus Diseases

Nov. 51

"Effectiveness of Penicillia Therapy in Jeundice-Free Leptospirosis," A. A. Varfolomeyeva, M. T. Ventsen, E. Ye. Estrina, Poscov Chinat Inst of Spidenicl, Midrobiol, and Infectious Diseases issui I. I. Machnikov; Sychovsk Rayon Rosp.

"Sow Hed" Wel MV, No 11, pp 29-32

Penicillin was found to be very effective in the therapy of jaundice-free leptospirosis.

PA 204T57

Card 1/2

EPF(c)/EMP(j)/EMP(k)/EMP(z)/EMT(m)/T/EMP(b)/EMP(e)/EMP(t)Pc-4/Pf-4/ L 58961-65 ACCESSION NR: AP5016375 Pr-4 IJP(c) RM/JD UR/0064/65/000/006/0468/0470 661.718.5: 66.096.5.084 AUTHOR: Trofimova, I.V.; Andrianov, K.A.; Estrina, M.A.; Zil'berg, G.A. TITLE: Synthesis of methylchlorosilanes/in a fluidized bed with the use of vibration SOURCE: Khimicheskaya promyshlennost, no. 6, 1965, 468-470 TOPIC TAGS: organosilicon compound, vibration, fluidized bed, chlorosilane synthesis, silicon powder, copper powder ABSTRACT: Experiments involving powdered silicon-copper alloys and also mixtures of silicon and copper powder were carried out in order to determine the hydrodynamic characteristics of a fluidized bed with the use of vibration. The latter reduces the critical rate of fluidization wk by a factor of 1.5-2, and the critical rate in the presence of vibration, w, decreases with the diameter of the tube in which the process takes place. Optimum conditions of the process were determined (lowest critical rate of fluidization, $w_k = 0.35$ cm/sec, for 75-100 μ particles and a tube diameter of 40 mm). On the basis of the data obtained, a synthesis of methylchlorosilanes was carried out with various silicon-copper contact masses, using methyl chloride. The composition of

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ACCESSION NR: AP5016375

the mixture of methylchlorosilanes produced was determined by gas-liquid chromatography with a KhL-3 instrument. The process was very reproducible when vibration was employed. The conversion of methyl chloride reached 35-55%, as compared to 5-10% in synthesis with a fluidized bed without vibration. Owing to a good mass and heat exchange, even at low linear gas flow rates, the reproducibility and content of dimethylchlorosilane are very satisfactory. Orig. art. has: 5 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: OC

NO REF BOV: 007

OTHER: 000

Card 2/2

IN 8.70877

ESTRINOV, YA. K.

USSR/Electronics - Cathode Decay

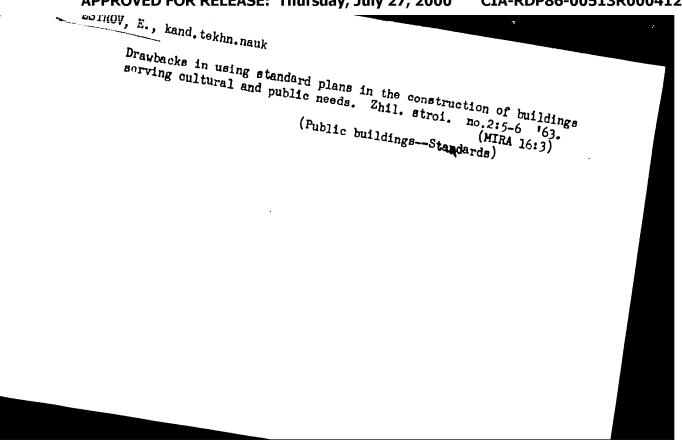
Oct 52

"Cathode Sputtering and Electron Emission of Iron and Graphite Under Action of Mercury Ions," M. A. Yeremeyev and Ya. K. Estrinov

"Zhur Tekh Fir" Vol 22, No 10, pp 1552-1555

Cathode decay and emission of electrons under action of a beam of Hg ions was measured for graphite and iron. The ion energy was varied from 1,000 to 30,000 eV.

236**T**53



ESTROV, Z. I., Engineer

"Questions of the Economics of School Fuilding." Sub 30 Nov 51, Sci Res Inst of Construction Engineering, Academy of Architecture USSR

Dissertations presented for science and engineering degrees in

SO: Sum. No. 480, 9 May 55

FSTROW, E. I.

Skyscrapers

Technical and economic peculiarities of the solutions of volumetric and planning problems of the tall administration buildings at the Smolensk Square and Red Cate. Streitelystvo

Monthly List of Russian Accessions, Library of Congress June 1953. UNCL.

RUZIN, B.V., kandidat ekonomicheskikh nauk; ESTROV, Z.I., kandidat tekhnicheskikh nauk, redaktor; MASLOV, N.A., reliktor; SMOL'YAKOVA, M.V., tekhnicheskiy redaktor; TOKER, A.M., tekhnicheskiy redaktor

[Technical and economic appraisal of plans for rural homes] Tekhniko-ekonomicheskaia otsenka proektov sel'skikh shilykh domov. Moskva.

Gos. izd-vo lit-ry po stroit. i arkhitekture. 1954. 39 p. (MLRA 8:3)

(Architecture. Domestic-Designs and plans)

ESTKOV, ZII

ALEXSANDROV, P.A.; ESTROV, Z.I.; GRADOV, G.A., kandidat arkhitektury. redaktor; PALLADINA, G.A., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Hospital buildings; proposals for planning standard designs of hospital buildings for industrial construction] Bol'nichnye sdaniia; predlosheniia po tipovomu proektirovaniiu bol'nichnykh sdanii industrial'nogo stroitel'stva. Moskva, Gos. isd-vo lit-ry po stroit. i arkhitekture, 1954. 51 p.

(Hospitals--Construction)

RUZIN, B.V., kandidat ekonomicheskikh nauk; ESTROV, Z.I., kandidat tekhnicheskikh nauk, nauchnyy redaktor; MASLOV, N.A., redaktor izdatelistva; GUSEVA, S.S., tekhnicheskiy redaktor

[Technical and economic evaluation of rural dwellings] Tekhnikoekonomicheskaia otsenka proektov sel'skikh zhilykh domov. Izd.
2-oe. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956.
57 p.

(MIRA 9:11)

ESTROV, Z.I., kand.tekhn.nauk

Estimating the efficiency of standard plans for public buildings.

Trudy MIEI no.9:133-141 '58. (MIRA 11:6)

(Building--Estimates)

MESOV, V.D., inzh., red.; SMIRNOV, V.P., inzh., red.; ESTROV, Z.I., kand. tekhn. nauk, red.; STRASHNYKH V.P., red. 1zd-va; RODIONOVA, V.M., tekhn. red.

[Construction specifications and regulations]Stroitel'nye normy i pravila. Moskva, Gosstroiizdat. Pt.2. Sec.L, ch.2. [Public buildings and structures; basic principles of design] Obshchestvennye zdaniia i sooruzheniia; osnovnye polozheniia proektirovaniia. (SNiP II-L. 2-62). 1962. 7 p.

1. Russia (1923- U.S.S.R.)Cosudarstvennyy komitet po delam stroitel'stva. 2. Gosudarstvennyy komitet Soveta Ministrov SSSR po delam stroitel'stva (for Nesov, Smirnov). 3. Nauchno-issledovatel'skiy institut obshchestvennykh zdaniy i sooruzheniy Akademii stroitel'stva i arkhitek ury SSSR (for Estrov). (Construction industry-Standards)

NESOV, V.D., inzh., red.; SMIRNOV, V.P., inzh., red.; ESTROV, Z.I., kand. tekhn. nauk, red.; STRASHNYKH, V.P., red.12d-va; RODIONOVA, V.M., tekhn. red.

[Construction specifications and regulations] Stroitel'nye normy i pravila. Moskwa, Cosstroiizdat. Pt.2. Sec.L. ch.2.
[Public buildings and structures; basic regulations for design (SNiP II-L. 2-62)] Obshchestvennye zdaniia i soorusheniia; osnovnye polozheniia proektirovaniia (SNiP II-L. 2-62). 1962.
7 p. (MIRA 16:5)
1. Russia (1923— U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosudarstvennyy komitet Soveta Ministrov SSSR po delam stroitel'stva (for Nesov, Smirnov).

(Public buildings—Standards)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041222

ESTULIN, G. V.

NICKEL ALLOYS

DECEAS

1964

L 4177-66 EWT(m)/EWP(e)/EWP(i)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) ACC NR. AP50244051D/EMP(H)/JG MJW(CL)/ SOURCE CODE: UR/0286/65/000/915/0063/0083 INVENTOR: Estulin, G. V.: Zimina, L."N.: Kosheleva, G. F.: Topilin, V. V.: Boyarinova, A. P. Tavetkova, V. K. Khatalakh, R. F. Shnyakin, N. S.: Polyakov, K. M.: Mol'nikov, M. V. Belyakova, K. A."; Il'in, A. A.: Morozov, B. S.: Bogdanovskiy, S. F. Khrakovskaya, P. S. W.: CRG: none TITLE: Wrought, heat-resistant, nickel-base alloy. Class ho, No. 173418 [announced by nauchno-issledovatel'skiy institute of Ferrous Metallurgy im. Bardin (Tsentral'ny) Tevosyan Tevosyan SOUNCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 83 TOPIC TAGS: alloy, nickel alloy, chromium containing alloy, aluminum containing alloy, tungsten containing alloy, titanium containing alloy, aluminum containing alloy, beryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a wrought, heat-resistant, nickel-base 20% chromium, 8—12% molybdenum, 0—6% tungsten, 2—3% titanium, 1—2% aluminum, alloy ontains 17 to 0.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man— SUB CODE: MM/ SUBM DATE: O5Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS://26 Cord 1/1 //L.4 Cord 1/1 //L.4	The state of the s	
INVENTOR: Estulin, G. V.; Zimina, L. N.; Kosheleva, G. F.; Topilin, V. V.; Boyarinova, A. P.; Tsvetkova, V. K.; Zimina, L. N.; Kosheleva, G. F.; Topilin, V. V.; Boyarinova, M. V.; Belyakova, K. A.; Il'in, A. A.; Morozov, B. S.; Dogdanovskiy, S. J.; Mel'nikov, Khrakovskaya, P. S. V.; Ji'in, A. A.; Morozov, B. S.; Dogdanovskiy, S. J.; Mel'nikov, ORG: none TV.; Title: Wrought, heat-resistant, nickel-base alloy. Class 40, No. 173418 [announced by nauchno-issledovatal skiy institute of Ferrous Metallurgy im. Bardin Tsentral ny, Tevosyan] Tevosyan Tevosyan Title: Wrought Title	L 4177-66 EWT(m)/EWP(e)/EWP(4)/EWA(A) Amm(-) Art Amm (-)
INVENTOR: Estulin, G. V.; Zimina, L. N.; Kosheleva, G. F.; Topilin, V. V.; Boyarinova, A. P.; Tsvetkova, V. K.; Zimina, L. N.; Kosheleva, G. F.; Topilin, V. V.; Boyarinova, M. V.; Belyakova, K. A.; Il'in, A. A.; Morozov, B. S.; Dogdanovskiy, S. J.; Mel'nikov, Khrakovskaya, P. S. V.; Ji'in, A. A.; Morozov, B. S.; Dogdanovskiy, S. J.; Mel'nikov, ORG: none TV.; Title: Wrought, heat-resistant, nickel-base alloy. Class 40, No. 173418 [announced by nauchno-issledovatal skiy institute of Ferrous Metallurgy im. Bardin Tsentral ny, Tevosyan] Tevosyan Tevosyan Title: Wrought Title	ACC AIR AREAGING TIPLE	d)/EMP(V)/T/EWP(t)/EWP(k)/EWP(z)/EWP(h)/EWA/at
A. P.; Tavetkova, V. K.; Khatalakh, R. F.; Shnyakin, N. S.; Polyakov, K. M.; Mel'nikov, M. V.; Belyakova, K. A.; Il'in, A. A.; Morozov, B. S.; Bogdanovskiy, S. P.; ORG: none Tille: Wrought, heat-resistant, nickel-base alloy. Class 40, No. 173418 [announced by nauchno-issledovatel'skiy institute of Ferrous Metallurgy im. Bardin (Tsentral'ny) Tevosyan] Tevosyan] SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 83 TOPIC TAGS: alloy, nickel alloy, chromium containing alloy, molybdenum containing alloy, tungsten containing alloy, titanium containing alloy, aluminum containing alloy, beryllium containing alloy, cerium containing alloy, beryllium containing alloy, cerium containing alloy with improved mechanical properties and weldablity. The alloy contains 17 to 0.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man-carbon containing, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man-carbon containing, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man-carbon containing, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man-carbon containing, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man-carbon containing, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man-carbon containing, 0.01% max boron, and 0.02% max cerium. SUB CODE: MM/ SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS. 4/19 P.	//411/04	DUINCE CODE: Im (0007/2"
A. P.; Tavetkova, V. K.; Khatalakh, R. F.; Shnyakin, N. S.; Polyakov, K. M.; Mel'nikov, M. V.; Belyakova, K. A.; Il'in, A. A.; Morozov, B. S.; Bogdanovskiy, S. P.; ORG: none Tille: Wrought, heat-resistant, nickel-base alloy. Class 40, No. 173418 [announced by nauchno-issledovatel'skiy institute of Ferrous Metallurgy im. Bardin (Tsentral'ny) Tevosyan] Tevosyan] SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 83 TOPIC TAGS: alloy, nickel alloy, chromium containing alloy, molybdenum containing alloy, tungsten containing alloy, titanium containing alloy, aluminum containing alloy, beryllium containing alloy, cerium containing alloy, beryllium containing alloy, cerium containing alloy with improved mechanical properties and weldablity. The alloy contains 17 to 0.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man-carbon containing, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man-carbon containing, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man-carbon containing, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man-carbon containing, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man-carbon containing, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man-carbon containing, 0.01% max boron, and 0.02% max cerium. SUB CODE: MM/ SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS. 4/19 P.	THURSDAM	UN/0286/65/000/015/0083/0083
ORGI none TITLE: Wrought, heat-resistant, nickel-base alloy. Class 40, No. 173418 [announced by Central Scientific Research Institute of Ferrous Metallurgy im. Bardin Tennounced by nauchno-issledovatal skiy institut chernoy metallurgii); z-d "Elektrostal'" im. I. F. SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 83 TOPIC TAGS: alloy, nickel alloy, chromium containing alloy, molybdenum containing alloy, tungsten containing alloy, titanium containing alloy, pluminum containing alloy, titanium containing alloy, pluminum containing alloy carbon containing alloy, beryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a wrought, heat-resistant, nickel-base alloy with improved mechanical properties and weldability. The alloy contains 17 to 0.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man. O.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man. [AZ] SUB CODE: MM/ SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS: 4/9 P	INVENTOR: Estulin, G. V.: Ziming, 1,476	44.55
ORGI none TITLE: Wrought, heat-resistant, nickel-base alloy. Class 40, No. 173418 [announced by Central Scientific Research Institute of Ferrous Metallurgy im. Bardin Tennounced by nauchno-issledovatal skiy institut chernoy metallurgii); z-d "Elektrostal'" im. I. F. SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 83 TOPIC TAGS: alloy, nickel alloy, chromium containing alloy, molybdenum containing alloy, tungsten containing alloy, titanium containing alloy, pluminum containing alloy, titanium containing alloy, pluminum containing alloy carbon containing alloy, beryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a wrought, heat-resistant, nickel-base alloy with improved mechanical properties and weldability. The alloy contains 17 to 0.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man. O.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man. [AZ] SUB CODE: MM/ SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS: 4/9 P	A. P. Tsvetkova, V. K. Khatalakh P.	Nosneleva, G. F.; Topilin, V. V.; Boyarinova
ORGI none TITLE: Wrought, heat-resistant, nickel-base alloy. Class 40, No. 173418 [announced by Central Scientific Research Institute of Ferrous Metallurgy im. Bardin Tennounced by nauchno-issledovatal skiy institut chernoy metallurgii); z-d "Elektrostal'" im. I. F. SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 83 TOPIC TAGS: alloy, nickel alloy, chromium containing alloy, molybdenum containing alloy, tungsten containing alloy, titanium containing alloy, pluminum containing alloy, titanium containing alloy, pluminum containing alloy carbon containing alloy, beryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a wrought, heat-resistant, nickel-base alloy with improved mechanical properties and weldability. The alloy contains 17 to 0.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man. O.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man. [AZ] SUB CODE: MM/ SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS: 4/9 P	M. Vai Belyakova K. A"." Tilla A. A. W.	Sonnyakin, N. G.; Polyakov, K. M.; Molinikov
Central Scientific Research Institute of Ferrous Metallurgy im. Bardin' (Tentral'ny) nauchno-issiedovatal'skiy institut chernoy metallurgii); z-d "Elektrostal'" im. I. F. SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 83 TOPIC TAGS: alloy, nickel alloy, chromium containing alloy, molybdenum containing alloy, tungsten containing alloy, titanium containing alloy, aluminum containing alloy, carbon containing alloy, beryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a wrought, heat-resistant, nickel-base alloy with improved mechanical properties and weldability. The alloy contains 17 to 20% chromium, 8—12% molybdenum, 0—6% tungsten, 2—3% titenium, 1—2% aluminum, ganese, 0.6% max silicon, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man— ganese, 0.6% max silicon, 0.01% max boron, and 0.02% max cerium. [AZ] SUB CODE: MM/ SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS: /// P.	The state of the s	
Central Scientific Research Institute of Ferrous Metallurgy im. Bardin' (Tentral'ny) nauchno-issiedovatal'skiy institut chernoy metallurgii); z-d "Elektrostal'" im. I. F. SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 83 TOPIC TAGS: alloy, nickel alloy, chromium containing alloy, molybdenum containing alloy, tungsten containing alloy, titanium containing alloy, aluminum containing alloy, carbon containing alloy, beryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a wrought, heat-resistant, nickel-base alloy with improved mechanical properties and weldability. The alloy contains 17 to 20% chromium, 8—12% molybdenum, 0—6% tungsten, 2—3% titenium, 1—2% aluminum, ganese, 0.6% max silicon, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man— ganese, 0.6% max silicon, 0.01% max boron, and 0.02% max cerium. [AZ] SUB CODE: MM/ SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS: /// P.	ORG: none YY	77.55
Tevosyan] SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 83 TOPIC TAGS: alloy, nickel alloy, chromium containing alloy, molybdenum containing alloy, tungsten containing alloy, titanium containing alloy, aluminum containing alloy, carbon containing alloy, beryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a wrought, heat-resistant, nickel-base alloy with improved mechanical properties and weldability. The alloy contains 17 to 0.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max mangenese, 0.6% max silicon, 0.01% max boron, and 0.02% max cerium. SUB CODE: MM/ SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS: 4/9.P		
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ABSTRACT: This Author Certificate introduces a wrought, heat-resistant, nickel-base alloy with improved mechanical properties and weldability. The alloy contains 17 to 0.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man ganese, 0.6% max silicon, 0.01% max boron, and 0.02% max cerium. [AZ]	allow the alloy, nickel alloy, chromit	um containing all and a 27
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alloy with improved mechanical properties and weldability. The alloy contains 17 to 20% chromium, 8—12% molybdenum, 0—6% tungsten, 2—3% titanium, 1—2% aluminum, 0.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man—. ganese, 0.6% max silicon, 0.01% max boron, and 0.02% max cerium. [AZ] SUB CODE: MM/ SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS:4/9P	Anoma	cerium containing alloy
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ganese, 0.6% max silicon, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max man SUB CODE: MM/ SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS:4/9.	20% chronium. 8-124 mainhair properties	and weldability. The allow contains 13
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SUB CODE: MM/ SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS:4/9.P	genese. 0.64 may odd iron, 0.01% max s	ulfur, 0.015 mar phosphanus, 0.55
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- 1. ESTULIN, I. V.
- 2. USSR (600)
- 4. Physics and Mathematics
- 7. Desimetry of Ionising Radiation, K. K. Aglintsev. (Radiometry and Rentgenometry. Mescow-Leningrad, 1950). Reviewed by I. V. Estulin, Sov. Kniga, No. 11, 1951.

9. Report U-3081, 16 Jan. 1953, Unclassified.

ESULIN, I.

O, pmi

Emission of delayed neutrons by the isotope nitrogenii.

I. Esulin. Uspekhi Fiz. Nauk 41, 221-4(10:0); Chem.

Zenir. 1931, I. 3452.—A review of 9 recent papers with the work of Alvarez (cf. C.A. 43, 4:62c) given special attention.

M. G. Moore

11-23.54 pmg

ESTULIN, I. V.

USSR/Huclear Physics - Gamma Rays

Dec 51

"Slit Ionization Camera for Gamma-Ray Measurement,"
I. V. Estulin, Moscow State U

"Zhur Eksper i Teoret Fiz" Vol XXI No 12, pp 1412-1415

Performed measurements of ionization by gamma-rays in an air-filled ionization camera of 400 cm³ with walls of C. Al, Fe, Cu, Sn and Pb. Obtained relations of balanced intensity of electrons, generated by gamma-rays in various materials. Author thanks Prof I. M. Frank for advice. Submitted 23 Feb 51.

198193

ESTULIN, I.

Estulin, I. The scheme for decomposition of ionium and radiothorium. P. 269. SO: Progress in the Physical Sciences, Vol. XLIV, No. 2, June 1951 (Uspekhi)

Influence of the spectrum of y-radiation on the transition affect of y-tays. I. Y. Estulin. Zhur. Zhript. 1 Town.

Fig. 22, 85-94(1093). Some of hists. Monthly that the property of the standard chambers whose from surveys the standard chambers whose from surveys the standard chambers whose from man. or Ph folia was exposed to 0.1-2.02-me.v. y-rays from Ra or RdTh sources and the difference of the currents was measured as a function of the n. of Ph folis inserted between the Al foll and plate of one of the chambers. Associ. with the transition of the n y's from an element with low Z to one with high Z there is at first a first with the current followed by a fall when the core of the creat with approx. 0.1 g./eq. cm. The influence of Ph shields over the new standard of the nature of the real wall were investigated.

[K. L. C.]

USSE/Electricity - Ionization Current Produced by "Components of Ionization Current Produced by Gamma-Rays," I. V. Estulin, Moscow State U Gamma-Rays," I. V. Estulin, Moscow State U Harman Eksper 1 Teoret Fiz" Vol XXII, No h, yp hit-had Ionization current produced by gamma-rays in a flat Ionization current produced by gamma-rays in a flat Inslity of electrons in various materials is separated in the chamber walls, and In produced gamerated in the chamber walls, and In produced by mitual effect of the chamber walls (effect of by mitual effection"). Expits were performed in electron "reflection"). Expits were performed in electron "reflection"). Expits were performed in Profits and RaTh. Indebted to Profit Frank. Received 17 May 51.
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USSR/Nuclear Physics - Ionization

Card 1/1 : Pub. 146-10/18

FD-493

Author

: Estulin, I. V.

Title

: Dependence of ionization current on energy of gamma-radiation

Periodical

: Zhur. eksp. i teor. fiz., 24, 221-228, Feb 1952

Abstract

: Studies the ionization currents from gamma-rays in air filled chambers with walls of lead and carbon as a function of gamma-ray energy. Found the sensitivity of slit ionization chambers of carbon and lead to gamma rays within the energy range of 0.3 to 3 MeV. Indebted to Prof. I. M. Frank and M. V. Klimentovskaya. 24 references, including 18 foreign.

Institution : Moscow State University

Submitted

: June 30, 1952

USSR/ Nuclear Physics

Title

Card 1/1 Pub. 43 - 5/11

Authors & Antonova

Antonova, I. A., and Estulin, I. V.

Isomeric conversions of Inll5*, Inll3* ard Sr87*

Periodical : Izv. AN SSSR. ser. fiz. 18/1, 79-87, Jan-Feb 1954

Abstract : The isomeric conversions of Tull5* Tull3* and cus

The isomeric conversions of In^{115*}, In^{113*} and Sr^{87*} were investigated by the ionization method and the relative conversion energies and semi-decomposition period of these isotopes were established. A comparison of experimental and theoretical data made it possible to determine the multi-polarity of these isomeric conversions. It was established that all such radiation (gamma-radiation) conversions are electrical 25-polar conversions. The coefficients of internal conversion of gamma rays in In^{113*}, In^{115*} and Sr^{87*} were determined with an accuracy of 10-15%. Data regarding the odd numbers of neutrons or protons in the nuclei of Sr⁸⁷, In¹¹³ and In¹¹⁵ are included. Twenty-four references: 15-USA; 8-USSR and 1-English (1949-1953). Tables; graphs;

drawing; diagram.

Institution: The M. V. Lomonosov State University, Moscov

Submitted : November 30, 1953

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041222

USSR/Physic - Internal conversion electrons

FD-2199

Card 1/1

Pub. 146-4/25

Author

: Estulin, I. V., and Moiseyeva, Ye. M.

Title

Measurement of the coefficients of internal conversion by gamma rays of

Sr-87*, In-113*, and V-51* in electrons of atoms

Periodical:

Zhur. eksp. i teor. fiz. 28, 541-546, May 1955

Abstract

The authors determine the complete coefficients of internal conversion by gamma rays of Sr-87*, In-113*, In-115* and V-51* in electrons of atoms by way of direct measurements of the number of electrons and gamma quanta radiated by the source. The corresponding values found 0.26±0.03, 0.39±0.04, 0.9±0.6, and (3.1±0.2)*10⁻³ lead to a conclusion concerning the energy 25-pole radiational transition of Sr-87*, In-113* and In-115* and the electric quadrupole transition of V-51*. The authors thank Z. V. Pastukhova, N. I. Mertts, and Ya. A. Kleyman. Eleven references: e.g.

L. K. Peker, L. A. Sliv, L. V. Zolotavin, 1953.

Institution:

Moscow Staté University

Submitted

: April 24, 1954

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041222

Category : USSR/Nuclear Physics - Elementary Particles

C-3

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 438

Author : Shapiro, I.S., and Estulin, I. V. : Moscow State University, USSR Inst Title : On the Electric Charge of a Neutron.

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 30, No 3, 579-580

Abstract : A narrow beam of thermal neutrons, filtered by graphite, with an average kinetic energy of 0.026 ev, was collimated by two foils of cadmium with slit apertures 2 mm wide, placed 50 cm apart. Two aluminum plates were placed in parallel with the planes of the slits. The plates were 50 cm long, and the distance between them was 7.5 mm. The difference of potential between the plates was 10 kv. If the neutron charge is qe, where e is the electron charge, then the electric field of the capacitor should deflect the beam by $\Delta x = \text{qeEl}^2/4w$, where E is the electric field intensity and W the kinetic energy of the neutrons. The experimentally observed displacement of the beam was less than 0.02 mm, corresponding to q less than 6 x 10-12.

: 1/1 Card

ESTULIN, IN

Category: USSR/Nuclear Physics - Structure and Properties of Nuclei C-4

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3191

Author : Estulin, I.V., Popov, V.S., Chukregev, F.Ye.

Inst : Moscow State University?

Title : Polarization - Direction Correlation of Successive Gamma Quanta

From Co60 and Na24.

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 30, No 6, 1052-1057

Abstract : Description of apparatus for measuring the polarization-direction

correlation of gamma quanta emitted in cascade. This apparatus, the polarization sensitivity of which was first determined experimentally, was used to perform measurements on gamma quanta from ${\rm Co^{60}}$ and ${\rm Na^{24}}$. The even parity of the first two excited states of ${\rm Ni^{60}}$ and ${\rm Mg^{24}}$ was

proven.

Card : 1/1

Estulin, I.Y.

SUBJECT

USSR / PHYSICS

CARD 1 / 2

FA - 1786

AUTHOR

ESTULIN, I.V., KALINKIN, L.F., MELIORANSKIJ, A.S.

TITLE

PERIODICAL

The Gamma Quanta emitted by the Nuclei of J, Rh amd Co on the

occasion of the Capture of Thermal Neutrons. Zurn.eksp.i teor.fis,31,fasc.5, 886-887 (1956)

Issued: 1 / 1957

The present work determines the energies and absolute intensities of the / -quanta mentioned in the title with from 50 to 600 keV. Fer this purpose a luminescence spectrometer with a cylinder-shaped NAJ(T1)-crystal (height 9 mm, diameter 28 mm) was used. As a source of thermal neutrons a physical test reactor with heavy water was used. From the horizontal channel in the shield of the reactor a well-collimated neutron bundle emerged, and in the center of the bundle the target made of the substance to be investigated was located. Under the target there was a NaJ(Tl)-crystal with a photoelectric amplifier. On the occasion of the measuring of the f-rays produced on the occasion of neutron capture, the measuring results obtained in the case of an opened bundle of thermal neutrons (N) were compared with those obtained when the output of the neutron collimator was covered by means of a lid of $B_4C(N_1)$. The effect (N) produced by the thermal neutrons on the target is equal 4 to the difference of these two results: N = No-N1. In the spectra of the investigated targets the photopeaks of soft &-quanta (emitted by the nuclei on the occasion of the capture of thermal neutrons) rise above the background of the momenta originating from harder / -gamma quanta.

Zurn.eksp.i teor.fis, 31, fasc.5, 886-887 (1956) CARD 2 / 2 PA - 1786 On the occasion of the capture of thermal neutrons by iodide nuclei, f -quanta with E = 135 + 4 keV were noticed which had escaped the attention of other authors. The results of such a test are shown in form of a diagram in which the photopeak caused by γ -quanta with 135 keV is distinctly visible. The intensity of these gamma quanta is n = 30 per 100 captures of thermal neutrons. Other much smaller peaks are due to the apparatus. On the occasion of the capture of thermal neutrons by Rh nuclei 4 discrete lines with the energies $E_1 = 217 \pm 4$; $E_2 = 176 \pm 4$; $E_3 = 133 \pm 4$ and $E_4 = 96 \pm 4$ keV were observed. Their intensities per 100 acts of capture of thermal neutrons are $n_1 = 9.3$; $n_2 = 18$; $n_3 = 8$ and $n_4 = 16$. The latter values have an accuracy of 15-20%. The lines found can not be connected with the activation of the target because they differ as to the energy of the J-quanta of the Rh¹⁰⁴ isomeres. The J-lines found here correspond to the transitions between these levels. On the occasion of capture of thermal neutrons by Co-nuclei, J-quanta with the energies $E_1 = 276 \text{ keV}$ and $E_2 = 226 \text{ keV}$ and with the same intensity of about 20 / -quanta per 100 captures of neutrons were noticed.

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ABSTRACT: The quality of a gamma spectrum is usually evaluated in a differential ionization chamber which consists of 2 coaxial cylinders. The chamber walls are made from aluminum and lead layers in such a way that the inside wall of one of the cylinders is coated with lead and that of the other cylinder with aluminum. Secondary electrons are set up in aluminum under the effect of gamma rays, chiefly by the Compton effect; in the lead, in addition, a photoelectric effect is very pronounced. Therefore, the interactions between the gamma rays and the walls of both cylinders are different, and the currents of both halves of the chamber are varied in different ways with variation of

Card 1/2