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tekhnicheskikh nauk, retsenzent; SAMSONOV, G.V., redaktor; ARKHANGEL'tekhnicheskikh nauk, retsenzent; SAMSONOV, G.V., tekhnicheskiy redaktor
SKAYA, M.S., redaktor izdatel'stva; EKRLOV, A.P., tekhnicheskiy redaktor

[Vacuum in metallurgy] Vakuum v metallurgii. Moskva, Gos. nauchnotekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 520 p. (MLRA 9:12)

(Vacuum) (Metallurgy)

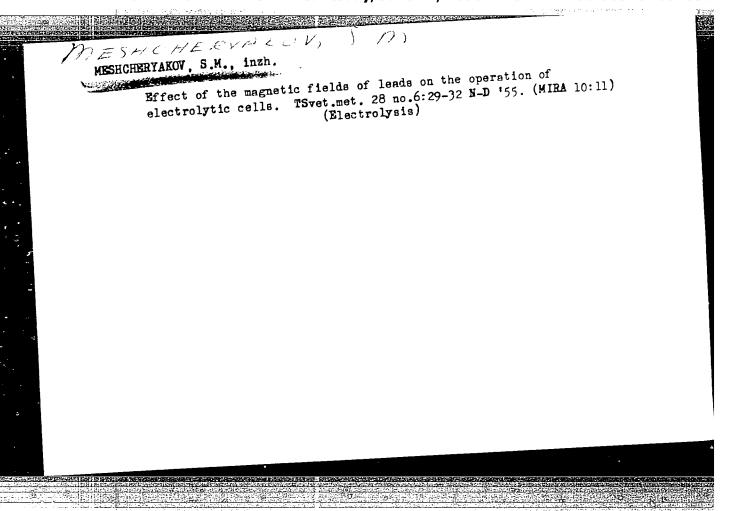
(Eng.) MESHCHERYAKOV, S. M.

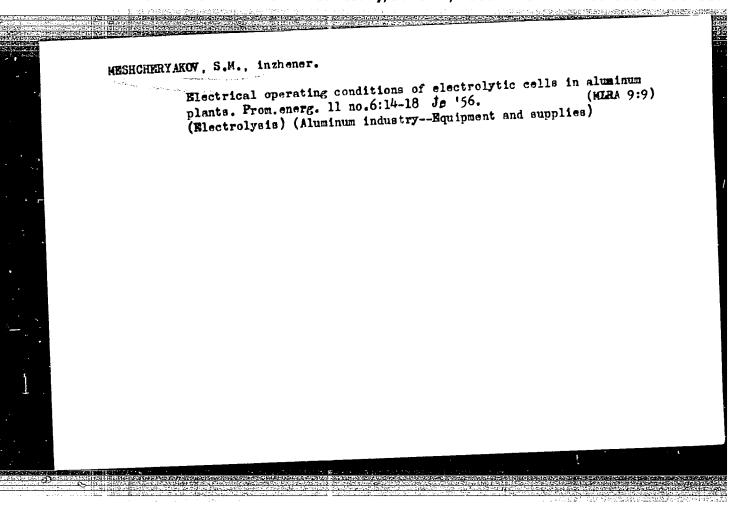
"Experience of Operating Existing Types of Mercury-Arc Rectifiers and Types of Converter Substations for a Large Aluminum Plant," reported in the article "First All-Union er Substations for a Large Aluminum Plant," reported in the article "First All-Union Elektrichestvo, No. 11, 1949. Scienfific and Technical Session on Mercury-Arc Rectifiers," Elektrichestvo, No. 11, 1949.

Deputy Chief power Engineer of an Aluminum plant

W-9395, 10 Apr 1950 Abstract

> CIA-RDP86-00513R001033 APPROVED FOR RELEASE: Wednesday, June 21, 2000





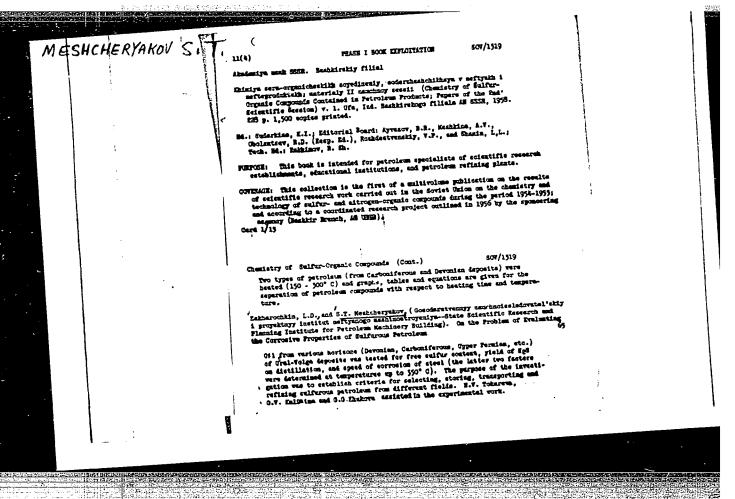
MESHCHERYAKOV, S.S.

Distribution of useful components in tin deposits of the northern Sikhote-Alin' Range. Izv. vys. ucheb. zav.; geol, i razved. 3 (MIRA 13:12) no. 10:60-67 0 '60.

1. Leningradskiy gornyy institut imeni G.V. Plekhanova. (Sikhote-Alin' Range--Tin ores)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033



MESHCHEATAKOV, S. T.

"Calcining Weighed Line From Sie Displan Loulonis." Cand Tech Joi,
Ural-Embensk Scilles Dase, Acad ScilKanakh Bor, Alma-Ata, 175h. (Line Co., 1957)

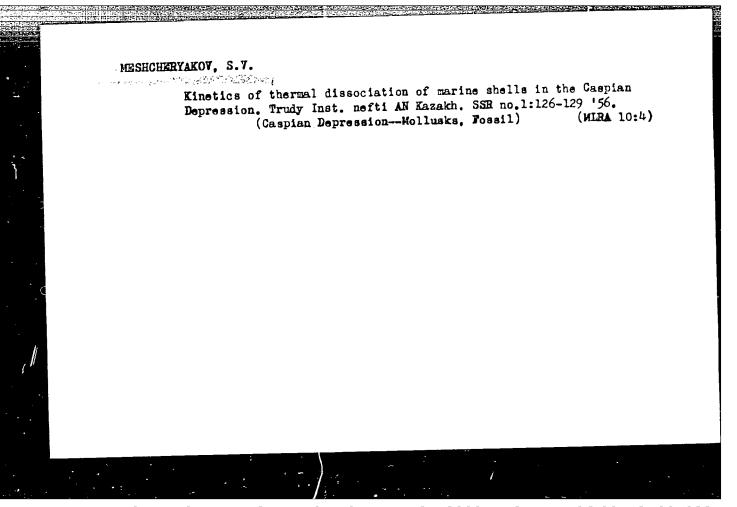
So: Sun. no (10, 29 Sept 5) - Survey of Scill ific and Recharded Dispersions

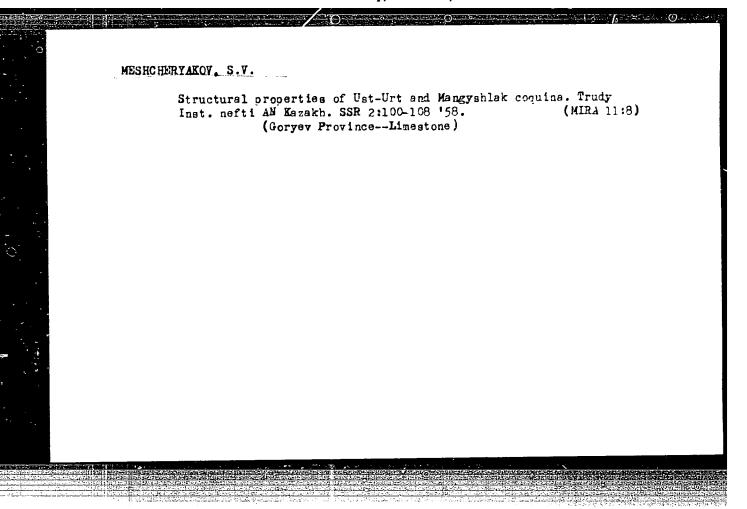
Defended at USSR Higher Educational Institutions (15)

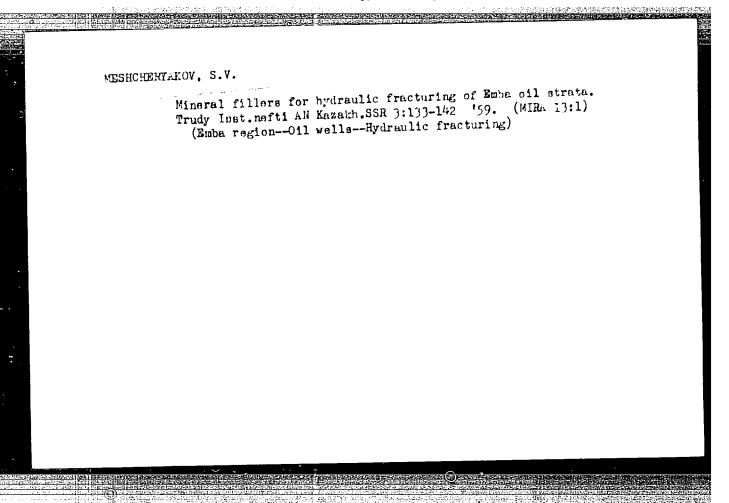
MESHCHERYAKOV, Sergey Vladimirovich, kandidat tekhnicheskikh nauk; GRAHARNIK,
A.Z., redaktor; TURUBATEV, B., tekhnicheskiy redaktor.

[Shell rock limestone of Ust Urt and Mangyshlak as valuable building material] Izvestniak-rakushechnik Ustiurta i Mangyshlaka tsennyi strotel'nyi material. Alma-Ata, Kazakhskoe gos.izd-vo, 1966. 34 p. (MLRA 10:6)

(Kazakhstan--Limestone)



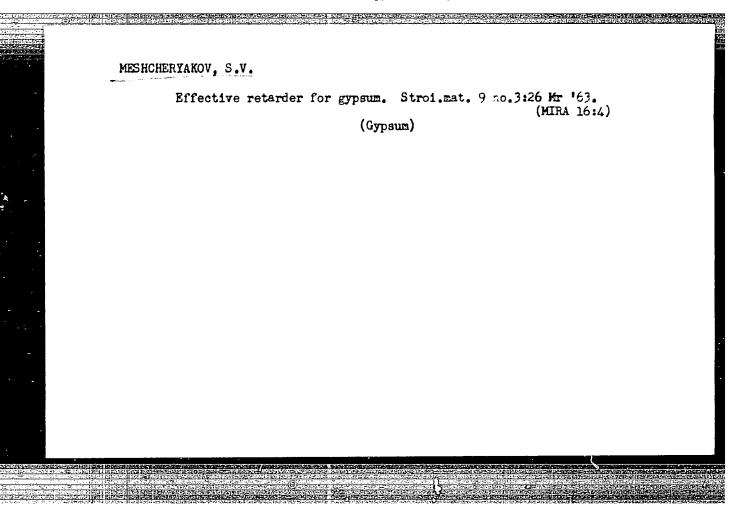




MESHCHERYAKOV, S.V.; NOGERBEKOV, B.Yu.

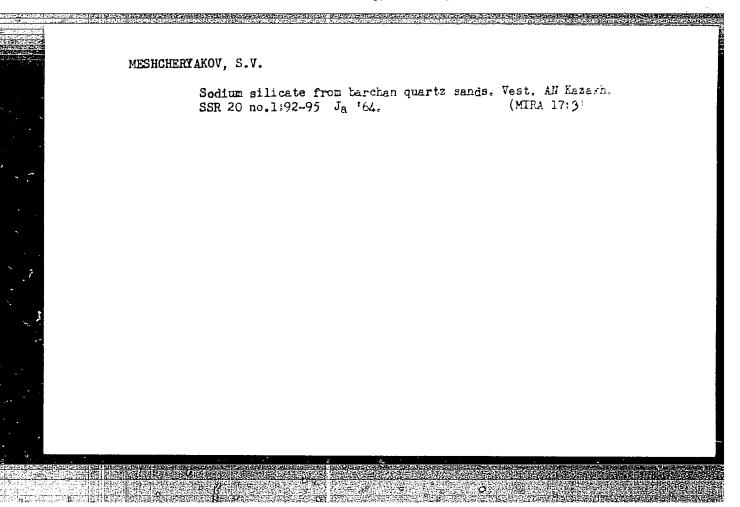
Contraction of plugging cement in contact with highly mineralized formation waters. Trudy Inst. nefti AN Kazakh.SSR 4:187-189 '61.

(Oil well cementing)



KOLPAKOV, V.B.; MESHCHERYAKOV, S.V.

Maltha deposits on the Mangyshlak Peninsula. Trudy Inst. geol. i
geofiz. AN Kazakh. SSR 1:16-25 '63. (MIRA 16:7)
(Mangyshlak Peninsula--Maltha)



ISMAILOV, A.; MESHCHERYAKOV, V.

Taikistan highways during 1C years. Avt. dor. no.1C.
17-19 0 '64. (MURA 17:12)

1. Ministr transporta i dorozhnogo khozyayetva Tadzhikskoy SSR (for Ismailor). 2. Nachal'nik proizvodstvenno-tekhnimcheekogo otdeleniya Upravleniya shosseynykh dorog (for Meshcheryakov).

BARILL, A.V.; MESHCHERYAKOV, V.A.; CHICHEVA, L.I., red.; BELOVA, N.N., tekhn. red. [Wide-range reaping units] Shirokozakhvatnye zhatvennye agregaty. Moskva, Sel'khozizdat, 1963. 190 p. (MIRA 16:9) (Grain-Harvesting) (Mowing machines)

CIA-RDP86-00513R001033

APPROVED FOR RELEASE: Wednesday, June 21, 2000

BARILL, Abram Veniaminovich; MESHCHERYAKOV, Vasiliy Aleksandrovich; BUD'KO, V.A., red.; PROKOF'YEVA, L.N., tekhn. red.

[Using paired reapers in harvesting by stages] Opyt razdel'noi uborki sparennymi zhatkami. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1960.

84 p. (MIRA 14:9)

MESHCHERYAKOV, V., inzh.

Coupling of ZhB-4,6 reapers controlled by the tractor operator.

Tekh. v sel'khoz. 20 no.7:42-45 Jl '60. (MIRA 13:9)

(Harvesting machinery)

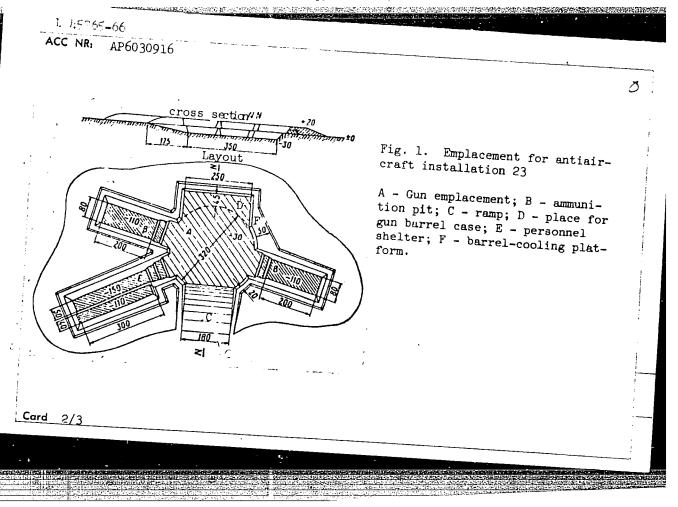
MESHCHERYAKOV, V.A., inwh.

Disposition of the supporting wheels of semimounted machines.

Trakt. i sel'knozmash. no.1:23-25 Ja '64. (MIRA 17:4)

l. Vserossiyakıy nauchno-isəledovateliskiy institut mekhanizatsii i elektrifikatsı: seliskogo khozyaystva.

L 45765-66 EWT(d)/EWT(1)/FSS-2 SOURCE CODE: UR/0018/66/000/009/0073,0075
AUTHOR: Meshcheryakov, V. (Colonel); Koshcheyev, A. (Lieutenant colonel) R
ORG: none
TITLE: Engineering structure of an antiaircraft battery position
SOURCE: Voyennyy vestnik, no. 9, 1966, 73-75
TOPIC TAGS: antiaircraft defense, defense installation, military installation, military engineering, artillery unit, gun emplacement/antiaircraft installation 23
ABSTRACT: After taking its position, an antiaircraft-artillery battery first prepares to open fire should an aerial target suddenly appear. After this is completed, the engineering construction of the firing position and battery command postics undertaken in the following sequence: 1) antiaircraft gun emplacement (see Fig. 1), for which 15 manhours are allotted; 2) trenches for firing-platoon commanders; 3) installation for the battery commander (see Fig. 2), for which 25 manhours are allotted; 4) slit trenches for personnel; and 5) shelter for transport equipment.
Card 1/3



L 45765-66 ACC NR: AP6030916

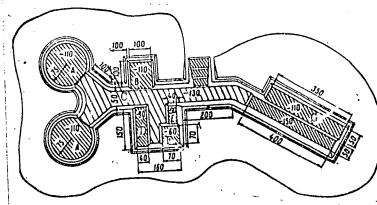


Fig. 2. Installation for the battery commander

0

A - Pits for the scout and range-finder operator; B - pit for the battery commander; C - communication trench; D - seats for the radiotele-phone operator and plotter; E - radio station; F - plotting board; G - personnel shelter.

In case of tank or infantry attack slit trenches and foxholes for riflemen and antitank men are located around the battery. Tank mines are laid in the area most accessible to tank attack. Orig. art. has: 2 figures. [WS]

SUB CODE: 15, 19/ SUBM DATE: none/ ATD PRESS: 5085

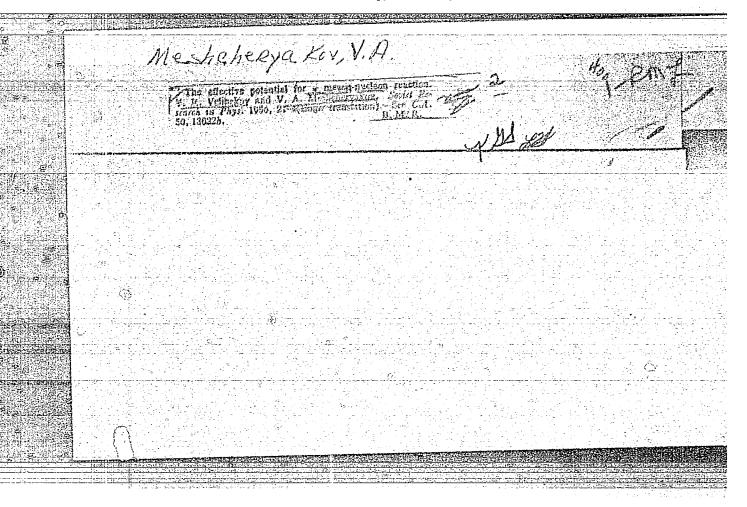
,..

'Card 3/3

VELIBEROV, V.R., KESHCHERYAKOV, V.A.

Refrective potentials of -meson-nucleon interactions. Dokl. AN SSSR 105 no.5:951-954 D '55. (MIRA 9:3)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. Predstavleno akademikom N.N. Bogolyubovym. (Mesons) (Nucleons)



- AUTHOR: Meshcheryakov, V. A.

\$17 37-33-1-2733

TITLE:

The $\pi\text{-}\text{Mesoatom}$ and the Corrections of the $\text{Dis}_{F^{\otimes T}}$ con

Relations (π-Mezoatom i popravki k dispersionnym costnosneni.

PERIODICAL:

Zhurnal eksperimental noy i teoreticheckoy fiziki, 'yyo.

Vol. 35, Nr l, pp. 290 - 290 (USCR)

ABSTRACT:

The dispersion relations for the process $\pi^{-}+\uparrow \rightarrow \pi^{-}+\uparrow$ before and after resonance afree with experimental results if the coupling constant for of mesonnucleon interaction is equal to 0,04 and 0,08 respectively. The paper estimates the corrections caused by the $\pi\text{-mesoatom}_{\scriptscriptstyle{\rm c}}$ the taking into account of one nucleon and one photon in the expansion for the anti-Hermitean (Ermit) part of the scattering

amplitude with respect to a complete system of functions is not a

complete representation of the electromagnetic interaction The $\pi\text{-mesoatom}$ must be investigated in the case of π^{π} , pinteractions. For this purpose the amplitude $f_{\perp}(\omega)$ of the forward scattering for the process π^+ + p $\rightarrow \pi^-$ + p has to be investigated more accurately. It may be represented by

Card 1/3

The π -Mesoatom and the Corrections of the Dispersion

the sum of 3 terms: 1) Rutherford (Rezerford) amplitude 2) a purely nuclear term, 3) a term caused by the interference of these two terms. For the dispersion relations it is important to know the scattering amplitude for low values of $\omega - m_{\pi} > 0$ where the interference term is not low. The interference term has to be investigated as a correction to the usual dispersion relations for the processes $\cdot \pm$ + p \rightarrow π^{\pm} + p; it contains poles which correspond to the bound states of the system π^{\top} , p. The correction to the dispersion relations which is caused by these states is explicitly given. According to numerical computations the correction which takes the $\pi\text{-mesoatom}$ into account is only small and explains only 4% of the difference between the experimental and theoretical values of \mathbf{f}^2 at energies of 120 MeV. The author thanks D.V. Shirkov for his useful discussions and for his interest in this paper. There are 4 references, 2 of which are Soviet

Card 2/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

The π -Mesoatom and the Corrections of the Dispersion and SiVersity in the 3

Relations

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Mossow State Uni

versity)

SUBMITTED: April 3, 1958

Card 3/3

YEFREMOV, A.V.; MESHCHERYAKOV, V.A.; SHIRKOV, D.V.

Pion-nucleon scattering at low energies. Part 1. Zhur. eksp. i teor. fiz. 39 no.2:438-449 Ag '60. (MIRA 13:9)

1. Ob"yedinennyy institut yadernykh issledovaniy. (Nucleons--Scattering)

5/056/60/039/004/037/048 2006/8056

24.6900

Yefremov, A. V., Meshcheryakov, V A., Shirkov, D. V.

TITLE:

Pion-Nucleon Scattering at Low Energies. II

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,

Vol. 39, No. 4(10), pp. 1099 - 1105

TEXT: Following part I (Ref. 1) of the paper, an integral equation for the phase shift α_{33} is here derived, and, besides, expressions for other phase shifts which involve $\pi\pi$ -scattering phase shifts δ_0 and δ_1 are obtained. It is found that the dispersion relations in pion-nucleon backward scattering play an essential part, and that the phase shift δ_0 influences considerably the πN -scattering. The scattering length and the phase shift δ_0 are estimated by considering small phase shifts near the πN -scattering threshold. Proceeding from the double spectral representation by Mandelstam, the system of integral equations for the partial waves of pion-nucleon scattering is obtained in spaces derivation the dispersion Card 1/2

Pion-Nucleon Scattering at Low Energies. II

84419 s/056/60/039/004/037/048 B006/B056

relations play an important part. As there are no prospects of being able to give a rigorous proof of Mandelstam's representation, an investigation of the possibility of a rigorous proof of dispersion relations for backward scattering is of interest. It is shown that into the expression for the partial waves of $\pi N\text{-scattering},$ the s-phase shift δ_{Ω} of $\pi\pi\text{-scattering}$

enters with a large factor. Therefore, it is possible, in spite of the approximative character of the calculations and the considerable experimental errors, to determine sign and order of magnitude of the scattering length only on the basis of an investigation of the small p-waves of AN-scattering near the threshold. The authors assume that a more exact calculation of the s- and p-waves in the energy range from 100 to 200 Mev might also furnish data on the p-wave of $\pi\pi\text{-scattering}$. The results obtained agree with those of Ref. 9, but not with those of Ref. 10. These contradictions are finally briefly discussed. The authors thank Professor Chzhu Khun-yuan' for discussions. There are I figure and 10 references: 4 Soviet, 4 US, and 1 CERN.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED:

May 31, 1960

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

HYRNEV, P.Kh.; MESHCHERYAKOV, V.A.; NEDYALKOV, I.P.; SARANTSEVA, V.R., tekhn. red.

[A boundary value problem of dispersion relations] Ob odnoi kraevoi zadache dispersionnykh sootnoshenii. Dubna, Ob*edinennyy in-tiadernykh issledovanii, 1962. 9 p. (MIRA 15:6)

(Boundary value problems) (Mesons—Scattering)

ISAYEV, P.S.; MESHCHERY AKOV, V.A.; SARANTSEVA, V.R., tekhn. red.

[Effect of \(\textit{TIT}\)-interaction on the S and p-waves of \(\textit{IT}\)- N scattering Vliianie \(\textit{JII}\) -vzaimode istviia na 3-1 i-volny \(\textit{IT}\)- N rasseianiia. Dubna, Ob edinemyi in-t iadernykh issl., (MIRA 15:6)

(Nuclear reactions) (Mesons)

MESHCHERYAKOV, V.A.

ISAYEV, P. S., and MESECHERYAROV, V. A.

"Effect of the WWInteraction on $\mathcal S$ and $\mathcal P$ Waves of SWScattering"

report presented at the Intl. Conference or High Energy Postes, Teneva, 4-11 July 1962

Joint Institute for Nuclear Research Lab. of Theoretical Physics, Dubna, 1962

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

LOCUNOV, A. A., MESHCHENVARIV, V. A., and TAVKHELIBZE, A. N.

"On the approximate invariance in strong interaction theory"

report presented at the Intl. Conference on High Energy Faysica, Geneva,
1-11 July 1062

Joint Inst. for Nuclear Research
Lab. of Theoretical Physics, Dubna, 1962

S/020/62/142/002/012/029 B104/B138

AUTHORS: Logunov, A. A., Meshcheryakov, V. A., and Tavkhelidze, A. N.

TITLE: Approximate y invariance of the theory of strong interaction

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 2, 1962, 317-318

TEXT: The hypothesis is verified, that the matrix elements of all physical processes are invariant with respect to γ_5 transformation of

spinor particles at high energies and great momentum transfers. For scattering processes of the type $0+1/2 \longrightarrow 0+1/2$, the requirement of invariance has the consequence that a Fermi ion polarized longitudinally before the scattering process is also longitudinally polarized after it. The same is true for a nonpolarized Fermi ion. In particular, a similar result is obtained for nucleon-nucleon scattering. From an examination of the terms of lowest order in the perturbation theory it is shown that the mass terms are of no significance at high energies and considerable momentum transfers. Thus a γ_5 invariant interaction leads to γ_5 invariant momentum transfers.

matrix elements. N. N. Bogolyubov, S. M. Bilen'k.y, S. S. Gershteyn, Card 1/2

Approximate γ_5 invariance ...

S/020/62/142/002/012/029 B104/B138

M. M. Meshcheryakov, A. M. Baldin, R. M. Ryndin, and Ya. S. Smorodinskiy are thanked for advice and discussions. There are 4 references: 1 Soviet and 3-non-Soviet. The four references to English-language publications read as follows: M. Gell-Mann, Preprint, 1961; Y. Fujui, Progr. Theor. Phys., 21, 232 (1959); I. I. Sakurai, Ann. of Phys., 11, 1 (1960); Y. Namby, J. Ionn - Lasinio, Phys. Rev. 122, no. 1, 345 (1961).

ASSOCIATION: Ob"yedinennyy institut yadernykh issledevaniy (Joint Insti-

tute of Nuclear Research)

PRESENTED: August 14, 1961, by N. N. Bogolyubov, Academician

SUBMITTED: July 20, 1961

Card 2/2

S/056/62/043/004/029/061 B108/B102

AUTHORS:

Isayev, P. 3., meshcheryakov, V. A.

TITLE:

Effect of $\pi\pi\text{-interaction}$ on the s and p-waves in $\pi N\text{-scattering}$

PERIODI CAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,

no. 4(10), 1962, 1339-1348

TEXT: Using the Mandelstam representation, $\pi\pi$ -interaction is taken into account in the equations for πN -scattering. The partial wave amplitudes are considered by combining the dispersion relations for forward and back scattering. States with the isotopic index (-), i.e., the functions

$$\alpha = \tilde{\rho}e^{i\delta} + \frac{g^2}{4\tilde{\rho}_3^2}M(\Delta + \Delta_1), \qquad B^{(-)} = \rho e^{i\delta} + g^2(\Delta - \Delta_0), \qquad (1.4)$$

$$\Delta_0 = \frac{1}{2} \int_{-1}^{+1} \Delta d \cos \theta_3, \qquad \Delta_1 = \frac{3}{2} \int_{-1}^{+1} \cos^2 \theta_3 \cdot \Delta d \cos \theta_3.$$

following from the unitarity condition are considered (A. V. Yefremov et al.

Card 1/3

S/056/62/043/004/029/061 B108/B102

Effect of $\pi\pi$ -interaction on the...

ZhETF, 39, 439, 1960). In first approximation, the pion form factor is $F_{\pi}(v) = (k_{\mathbf{r}}^2 + 1)/(k_{\mathbf{r}}^2 + V + 1)$. The equations for the s and p partial amplitudes allowing for the cross symmetry have the form

$$\operatorname{Re} f_{s}^{(-)} = a^{-}\omega F_{\pi}(v),$$

$$\operatorname{3} \operatorname{Re} f_{p_{1/2}}^{(-)} = v \left\{ a_{1}^{-} \left\{ \omega + 1 + F_{\pi}(v) \right\} + a_{3}^{-} \left[2 \frac{v}{\omega + 1} + 1 - F_{\pi}(v) \right] + \frac{v}{2} \frac{v}{\omega} f^{2} + \frac{a^{-}\omega}{v} \left[1 - F_{\pi}(v) + v F_{\pi}(v) \right]_{v=0} \right\} - \frac{2v}{\pi} \int_{0}^{\infty} \operatorname{Im} f_{p_{1/2}}^{(-)}(v') \frac{dv'}{v'^{2}\omega'(\omega' + \omega)} - \frac{v}{\pi} \int_{0}^{\infty} \operatorname{Im} f_{p_{2/2}}^{(-)}(v') \frac{1}{v'^{2}(v' - v)} \left[\frac{F_{\pi}(v)}{F_{\pi}(v')} - 1 \right] dv', \qquad (6.1)$$

$$\operatorname{3Re} f_{p_{2/2}}^{(-)} = v \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + a_{1}^{-} \left(\frac{v}{\omega + 1} - \frac{1 - F_{\pi}(v)}{2} \right) + \frac{v}{2} \frac{v}{\omega} f^{2} + \frac{a^{-}\omega}{v} \left[1 - F_{\pi}(v) + v F_{\pi}'(v) \right]_{v=0} \right] + \frac{v}{2} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a_{3}^{-} \left[2\omega + \frac{1 + F_{\pi}(v)}{2} \right] + v \right\} \left\{ a$$

Card 2/3

Effect of an-interaction on the ...

5/056/62/043/004/029/061

$$+ \frac{v}{\pi} \int_{0}^{\infty} \operatorname{Im} f_{\rho_{1/2}}^{(-)}(v') \frac{1}{v'^{2}(v'-v)} \left[1 + 2\frac{\omega}{\omega'}\right] dv' +$$

$$+ \frac{v}{2\pi} \int_{0}^{\infty} \operatorname{Im} f_{\rho_{1/2}}^{(-)}(v') \frac{1}{v'^{2}(v'-v)} \left[\frac{F_{\pi}(v)}{F_{\pi}(v')} \div 1\right] dv'.$$

The s wave is satisfactorily described when a = 0.88, $t_r = 22$. With $a_1 = -0.004$, $a_3 = -0.17$ $f^2 = 0.087$. The $f_p^{(-)}$ wave is a good rendering of the energy dependence up to $\eta \sim 3$. For $f_s^{(-)1/2}$ the dependence on η is qualitatively correct. Up to 1.s. energies of ~ 400 MeV the effect of $\pi\pi$ -interaction on the $f_{p_{3/2}}^{(-)}$ wave is only small. There are 3 figures.

AUSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: March 31, 1962

Card 3/3

16504-63	EWT(m)/EDS AFFTC/	S/0056/63/045/002/0294/0302
CCESSION NR:	AP3005282	
ιπημοκ: Isaye	v, P. S.; Lend'yel	v. I.; Meshcheryakov, V. A. 53
rITLE: Partia	1 <u>Pi-N scattering</u> 19	waves with account of Pi-Pi Inter-
	f teoret.	fiz., v. 45, no. 2, 1963, 294-302
SOURCE: Zhur.	exeber ceorga	
wave dispers	TOU LETTCTO!	ring, pion pion interaction, partial
ABSTRACT: The N scattering tions method; authors (ZhET)	effect of TV into partial waves is in this study is a converse v. 43, 1339, 1962 and for taking into	eraction in the $T=J=0$ state on the investigated by the dispersion relationation of previous work by the 2 and OIYaN preprint R-938, 1962). account the $\pi\pi$ interaction makes it ous forms for the energy dependence of obtained prove the self-consistency.
Card 1/3		

L 16504-63

ACCESSION NR: AP3005282

of the method when used to describe phenomena in the low-energy region. It is shown that the s-wave dominant solution of Chew, Mandelstam, and Noyes (Phys. Rev. v. 119, 478, 1960) does not describe the energy dependence of the partial waves in N scattering. The approximations for the scattering length and the resonant behavior of the phase shift on the solution of the set of equations for scattering phase shift is also discussed. The most probable form of the long partial waves is also discussed. Relations between the contributions of the RG interaction to the s and p R scattering waves are obtained and their implications for the static limit are considered. The static limit is taken in the final expressions and is compared with the experimental data. Satisfactory description of

considered. The static limit is taken in the final expressions and is compared with the experimental data. Satisfactory description of the experimental data on IN scattering is obtained if the IN interaction is taken into account, and satisfy certain conditions, and if it is assumed that the phase shifts have a resonant character. "The authors are grateful to D. V. Shirkov for useful advice. One of us

Card 2/3

16504-63 ACCESSION NR: AP3005282		
and an arms of the l	the management of the Labo coint Institute for the hosp as: 5 figures and 24 formu	CCGTTC3 CICCOTT
ASSOCIATION: Ob!'yediner Enstitute of Nuclear Rese	my*y institut yadernykh iss arch)	ledovaniy (<u>Joint</u>
SUBMITTED: 01Feb63	DATE ACQ: 06Sep63	ENCL: 00
SUB CODE: PH	NO REF SOV: 004	OTHER: 012
Card 3/3		

	64-65 ENT(m) DTAAF/BABM(a)/FAEM(t) ESSION NR: AP4046417 S/0056/64/047/003/0970/0974	
	HORS: Isayev, P. S.; Meshcheryakov, V. A.; Radutskiy, G. M.; 42	
TIT	LE: Relativistic corrections to s- and p-waves of pi-N scatter-	
SOI	RCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, 3, 1964, 970-974	
pic	IC TAGS: pion nucleon scattering, relativistic correction, n pion interaction, elementary particle scattering, phase shift rection, s wave, p wave	
the	TRACT: The authors calculate the relativistic corrections to s and p waves of pion nucleon scattering, which were treated by se of the authors in earlier papers (Isayev and Meshcheryakov, TF v. 43, 1339, 1963; Isayev, V. I. Lend'yel, and Meshcheryakov,	
Cord		

L 6764-65 ACCESSION NR: AP4046417

Zhetf v. 45, 294, 1963). The calculation shows that the relativistic corrections are small in the entire energy range under consideration. The s wave of the pion-nucleon scattering is considered, with allowance for the relativistic corrections and with additional inclusion of the s-wave in the unitarity conditions. The p-wave correction is obtained from symmetry considerations, and that for a correct description of the s and $p_1/2$ phase shifts of the pion nucleon scattering it is essential to take account of the pion pion interaction. If the small phase shifts of pion-nucleon scattering are determined experimentally in the energy region up to 300-400 MeV with increased accuracy, it will become possible to separate reliably the pion pion scattering and to determine its parameters (scattering length and position of the resonance). Orig. art. has: 1 figure and 7 formulas.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

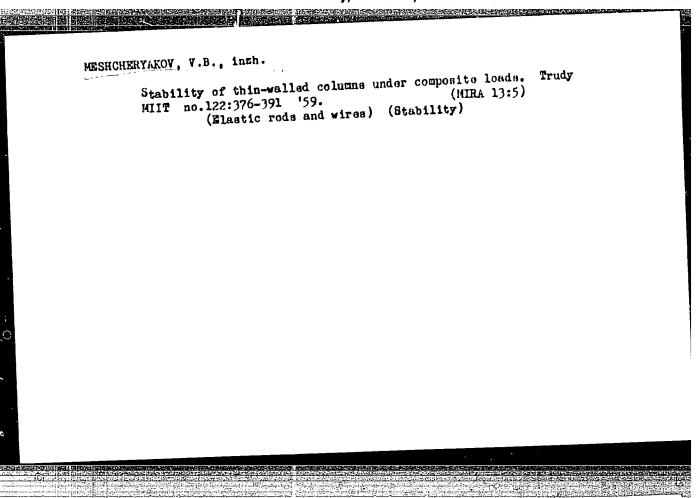
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

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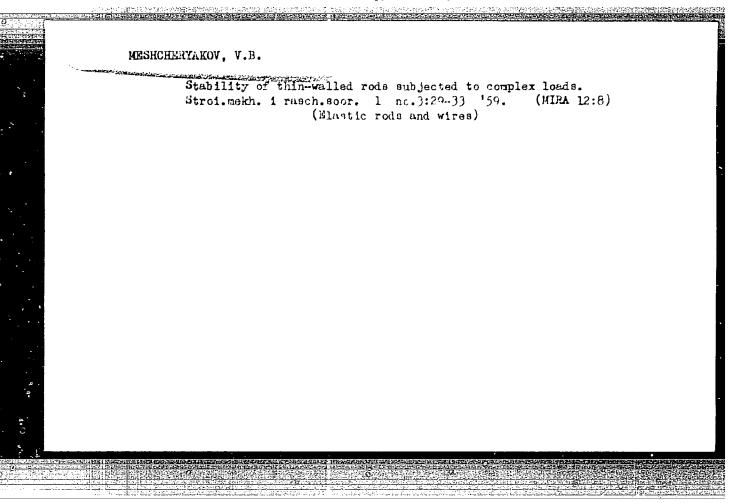
L 1996-66 EVT(m)/EVA(h)	o 10
UR/0367/65/002/001/0124/013 ACCESSION NR: AP5020263 AUTHOR: Meshcheryakov, V. A.; Nemenov, L. L.; Solov'yev, L. D.; Strohach, P.; Tkebuchava, F. G. 44.55	30B
TITIE: Mechanism of emission of hard γ quanta in the reaction $x + n \rightarrow x + \gamma + N$	1944,55
SCHREE: Yadernaya fizika, v. 2, no. 1, 1965, 124-150	
TOPIC TAGS: photon emission, pion proton interaction, nuclear interaction, pion interaction	
ABSTRACT: The authors analyze the mechanism of hard-photon emission when pions teract with nucleons. The contributions of different Feynman diagrams to the er section of this process are first analyzed, and it is shown by comparison with e perimental data that various contributions and interferences of the high-order d grams can be neglected. From the experimental data on the reaction $\kappa + p \rightarrow \kappa$	x- ia-
$+ \gamma + p$ the authors determine the interaction constant to the single-meson diagrams $+ \alpha$, and find it to be equal to $C^2 = 0.9 \pm 0.5$. Only the single-meson diagrams are taken into account, and the contribution of diagrams with rescattering are are taken into account, and the contribution of diagrams with rescattering are	
neglected. Diagrams in which 7 quanta are throaten for the amplitude of the process lected. The solution of the dispersion equation for the amplitude of the process in question is obtained in this paper as a function of only a single constant,	
Card 1/2	

L 1996-66 ACCESSION N	R: AP50202	:63			e produce de la composition d		9
corve for 1 has: 3 fig	the determination of the deter	nation of t the work an formulas.	wo const d L. I.	ental data, ants. "The Lapidus for 1,5 rnykh issled	valuable h	ints." Ori	g. art.
Nuclear Res	earch)	14:35		00	SUB CO		
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PRATUSEVICH, Ya.A., doktor tekhn. nauk, prof.; MESHCHERYAKOV, V.B., kand. tekh. nauk

Reduction of two-dimensional and three-dimensional problems in the theory of elasticity to one-dimensional and two-dimensional problems. Trudy MIIT no.164:5-15 163. (MIRA 18:3)



MESHCHERYAKOV, V. B., Cand Tech Sci -- (diss) "Research into the stability of straight thin-walled rods under the action of complex loadings." Moscow, 1960. 8 pp; (Ministry of Railroads, USSR, Moscow Order of Lenin and Order of Labor Red Banner Inst of Railroad Transport Engineers im I. V. Stalin); 170 copies; price not given; (KL, 17-60, 156)

MESHCHERYAKOV, V.B., kand. tekhn. nauk

Using boundary curves in calculating straight thin-walled rods for stability. Trudy MIIT no.164:50-58 '63.

Stability of straight thin-walled rods under the action of three-parameter loads. Ibid.:59-63

Stability of a strip of variable cross section under the action of longitudinal and lateral loads. Ibid.:64-78 (MTRA 18:3)

ACCESSION AR 4027697

S/0124/64/000/002/VC49/VC49

SOURCE: RZh. Mekhanika, Abs. 2V362

AUTHOR: Meshcheryakov, V. B.

TITLE: The stability of a strip of variable section under lengthwise and crosswise loads

CITED SOURCE: Tr. Mosk. in-ta inzh. zh.-d. transp., vy*p. 164, 1963. 64-78

TOPIC TAGS: stability, variable section, flexure, linear law, second-degree law, contrally compressing force, end moment, rigidity, critical force, coefficient graph, transverse loading, longitudinal loading

TRANSLATION: The paper considers the stability of a flat form of flexure of a strip with rigidity varying according to the linear law and the law of the second degree, under the action of a centrally compressing force or equal end moments, and also with joint action of equal end moments and an evenly distributed load acting in the plane of greatest rigidity of the pivot along the line of the

Card 1/2

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CIA-RDP86-00513R001033

ACCESSION NR: AR4027697

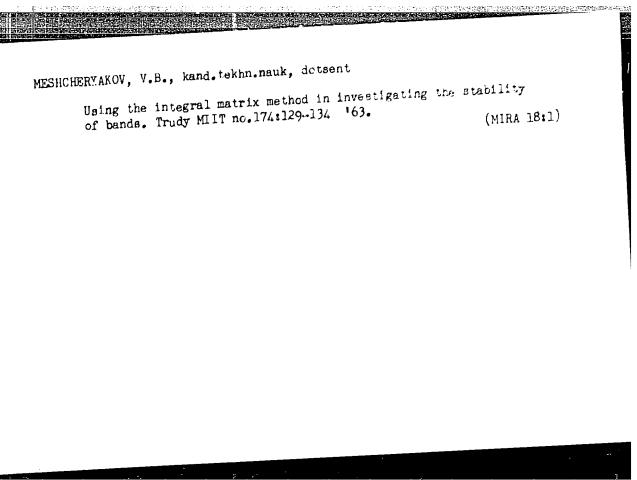
centers of gravity. Calculation formulas for the critical forces are obtained . and graphs of the coefficients are constructed.

DATE ACQ: 06Mer64

SUB CODE: PH

ENCL:

Card 2/2



L 40757-65 EPR/EVA(h)/EWP(k)/EVT(d)/EWT(m)/EWA	(d)/EMP(w)/EMP(v) Pf-1/Peb EM
1,10151-05	B/0258/65/005/001/0121/0128
CCESSION NR: AP5006162	28
AUTHOR: Kashcheryakov, V. B.	
THE Effect of shear on the operation of this	n-wall rods 26
no. 1, 1905	Participated and the second of
TOPIC TAGS: thin shell, thin walled rad, shell	structure, stress calculation
TOPIC TAGS: thin shell, thin walls	Answine approximate limits beyond
ABSTRACT: The purpose of the article was to de which the elementary theory of thin-wall hollow which the elementary theory of thin-wall elementary theory of thin-wall elementary theory of thin-wall elementary theory of thin-wall elementary theory of the strength of the	w rods, developed by V. Z. Vlasov
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the basis of a qualitative analyzes the stresses in a example, the author analyzes the stresses in a cample, the author analyzes the stresses in a cample and the author analyzes the stresses in a cample and the author analyzes the stresses in a cample and the author analyzes the stresses in a cample and the author analyzes the stresses in a cample and the author analyzes the stresses in a cample and the author analyzes the stresses in a cample and the author analyzes the stresses in a cample and the author analyzes are a cample and the author analyzes are a cample and a cample analyze and a cample and a	ion angles of the
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L 40757-65 ACCESSION WR: AP5006162				0
sections. Allowance for the of short rods leads to correctith theoretical data obtains formulas.	ctions emounting	s to 30-40%.	The results are	compared
SSOCIATION: None				
SUBMITIED: 17Jun63	ENCL:	00	SUB CODE: A	8
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Card 2/2 111/5				

ORLOV, V.P., kend.sel'skokhoz.nauk. Prinimali uchastiye: AVROV, N.N.;

BASEMKO, P.V.; VARLAMOV, D.A.; VASIL'YEV, I.I.; YLASOV, V.H.;

VYLEGZHANINA, V.A.; ZHIVET'IZV, V.G.; ZAVADSKIY, I.S.; ZALESSKIY.

Yo.Yo.; ZAKORYUKIN, D.S.; ISHCHEUKO, I.N.; KACHIBAYA, I.D.; KISELEV, Ye.S.; KOZHENNIKOV, I.Z.; LISITSYN, V.I.; MUSSHCHERTAKOV, V.F.;

NYURIN-VERTSBERG, R.L.; PERZPELITSA, V.M.; RYABKOV, A.D.; SKURIKHIN,

I.P.; SOLOV'IZV, N.A.; YAS'KO, N.G.. GREBTSOV, P.P., red.; ZUBRILINA,

Z.P., tekhn.red.

[Our farma in 1965] Nashi khoziaistva v 1965 godu. Moskva, Gos.

(Agriculture)

(Agriculture)

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CHIZHOV, D.G.: KNOTEV.G.I.; LAVREMENIKO, K.D.; SPIRIN, S.A.; NEKRASOV, A.M.; IVANOV, M.I.; UFAYEV, M.Ya.; GRISHIN, I.K.; KOSTIH, M.F.; POPOV, V.A.; ZAGGRODNIKOV, M.I.; PERDOTOV, P.H.; KAZ'MIH, A.V.; FOMICHEV, G.I.; YERSHOV, P.I.; PERSHOV, V.I.; YEFFEMOV, S.G.; LEVIN, I.S.; LETUCHEV, L.I.; KOZOREV, S.V.

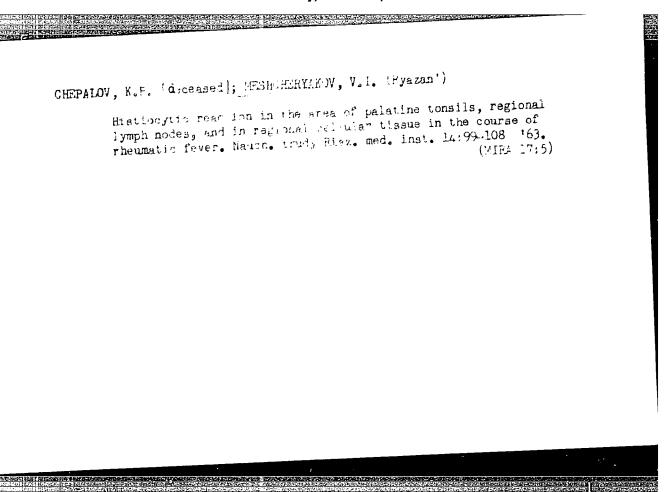
Nikolai Alekseevich Andreev. Energetik 4 no.9:40 S '56. (MLRA 9:10)

(Andreev, Nikolai Alekseevich, 1896-1956)
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CHIZHOV, D.G.: KOCTEV, G.I.; LAVRENENKO, K.D.; SPIRIN, S.A.; NEKRASOV, A.M.; IVAHOV, M.I.; UFAYEV, M.Ya.; GRISHIN, I.K.; KOSTIN, M.F.; POPOV, V.A.; ZAGORODNIKOV, P.I.; FEDOTOV, P.H.; KAZ'MIN, A.V.; POMICHEV, G.I.; YERSHOV, P.I.; MESHCHERYAKOV, V.I.; YEFREMOV, S.G.; LEVIN, I.S.; LETUCHEV, L.I.; BELKIN, M.N.; OBOLONKOV, M.I.; BATENIN, B.A.; BUR'YANOV, B.P.: KANATOV, P.I.: KOKORKV, S.V. Nikolai Alekseevich Andreev. Elek. sta. 27 no.10:62 0 '56. (Andreev, Nikolai Alekseevich, 1897-1956) (MLRA 9:12)

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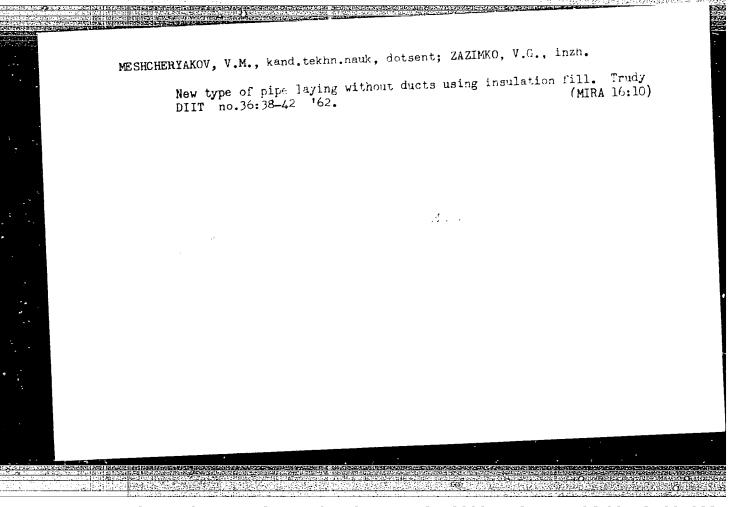
APPROVED FOR RELEASE: Wednesday, June 21, 2000



BERSON, Garri Zalmanovich, kand. sel'knoz. nauk. Frinimal uchastiye MESHCHERYAKOV, V I.; SAZONIVA. L.V., spets. red.

[Hydroponics in the Far Nor n] Gidroponika na Krainem Severe. Murmansk Marmanskoe knizmine izu vo, 1964. 126 p. (MIRA 1815)

1. Zamestitel' direktora humanakoy / lenevodoheakoy opytnoy stantsii (for Mesacheryakov).



I. 38556-66 EWT(m)/T/EWP(w)/EWP(t)/ETI IJP(c) GD/JD SOURCE CODE: UR/0000/65/000/000/0278/0288
L 38556-66 EWT(m)/T/EWP(w)/EWP(t)/ETI IJP(c) GD/JD SOURCE CODE: UR/0000/65/000/000/0278/0288 ACC NR: AT6012403 AUTHORS: Shorshorov, M. Kh.; Meshcheryakov, V. N.
ORG: none V TITLE: Delayed failure of titanium alloys TITLE: Soveshchaniye po metallokhimii, metallovedeniyu i primeneniyu titana i yego COURCE: Soveshchaniye po metallokhimii, metallovedeniyu i primeneniyu titana i yego 1045 278-288
splavov, 6th. Novyye issledovaniya. Moscow, Izd-vo Nauka, 1909, 270 alloys); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1909, 270 alloys); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1909, 270 metal stress, elongation, material failure,
Card 1/2

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the IMYeT	n the different all -4 experiments) the delayed failure	ized in a comprehe eventual failure a lloys is discussed ne titanium alloys resistance: VT6S, ables and 6 figure	in detail. It we can be placed in	e mechanism of de	layed
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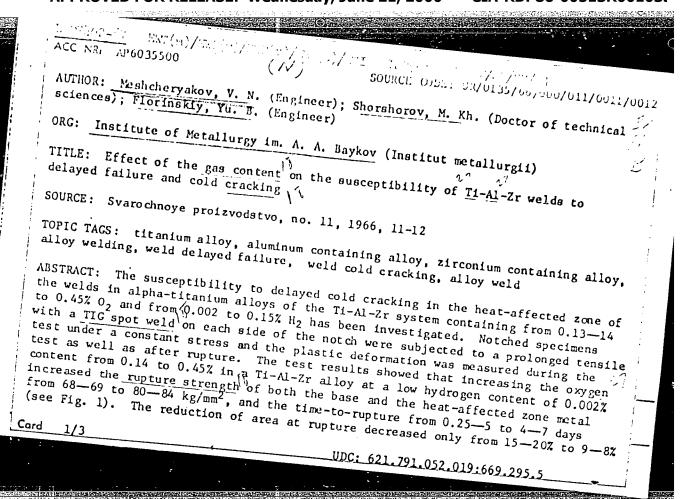
L 38557-66 EWI(m)/EWP(k)/T/EnP(w)/EWP(v)/EWP(t)/ETIACC NR. AT6012404 AUTHORS: Shorshorov, M. Kh.; Kainova, G. Ye.; Smirnov, B. A.; Meshcheryakov, V. N. UR/0000/65/000/000/0289/0294 ORG: none TITLE: Rational regimes of mechanical-thermal treatment of titanium alloy VII5 and its welded joints SOURCE: Soveshchaniye po metallokhimii, metallovedeniyu i primeneniyu titana i yego splavov, 6th. Novyye issledovaniya titanovykh splavov (New research on titanium alloys); TOPI: TAGS: NIPCHANICAL PROPERTY titanium alloy, metal property. metal welding, weld heat treatment/ VI15 ABSTRACT: The effects of quenching temperature and subsequent mechanical-thermal treatment regimes on the structure and mechanical properties of titanium alloy 77:5 and its welded joints were experimentally investigated on 2-mm thick specimens at the 1 and 1 and 1 and 1 and 2 and 2 and 2 and the specimens at the 1 and 2 and 2 and 2 and 3 Metallurgy Institute im. A. A. Baykov (institut metallurgii). After argon-are welding (single pass), the specimens were quenched from 800, 1000, and 12000 in water, followed. by agring (480c) for 18 hrs. 560c for 15 min.) Dilatometric and microstructural chearvations of the binetics of phase transitions were made and some received. tions of the kinetics of phase transitions were made, and some results are presented tions of the kinetics of phase transitions were made, and some results are presented the atremath and place of molded sooms were attended for increasing properties of welded sooms were attended for increasing and discussed. Based on these observations, several rational methods for increasing the strength and plastic properties of welded seams were attempted with the following

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results: 1) to obtain the highest measured properties ($\sigma_b = 175-179 \text{ kg/mm}^2$, $\psi = 6-100$) planting differential of the 6-10%), plastic deformation of the β -mase must be performed at 400-4500; 2) if the β -mase is deformed at room temperature, satisfactory properties (162 172 10 200) β -phase is deformed at room temperature, satisfactory properties (162--172, 10--20%) are β -phase is deformed at room temperature, satisfactory properties (162--172, 10--20%) are the obtained by subsequent heating to 600--6500 (for a short time): 3) increasing p-phase is deformed at room temperature, satisfactory properties (162-1/2, 10-203) increasing can be obtained by subsequent heating to 600-6500 (for a short time); 3) increasing the quenching temperature from AOO to 1100-42000 decreases chemical nonlinearing from AOO to 1100-42000 decreases can be obtained by subsequent heating to 000-6500 (for a short time); 3) increasing the quenching temperature from 800 to 1100-42000 decreases chemical nonuniformities and regults in more uniform mechanical appropriate after mechanical thermal transfer. one quenching temperature from out to flourer decreases chemical nonuniformities and results in more uniform mechanical properties after mechanical-thermal treatment. SUB CODE: 11, 13/ SUBM DATE: O2Dec65/ ORIG REF: O02 Orig. art. has: 7 figures.

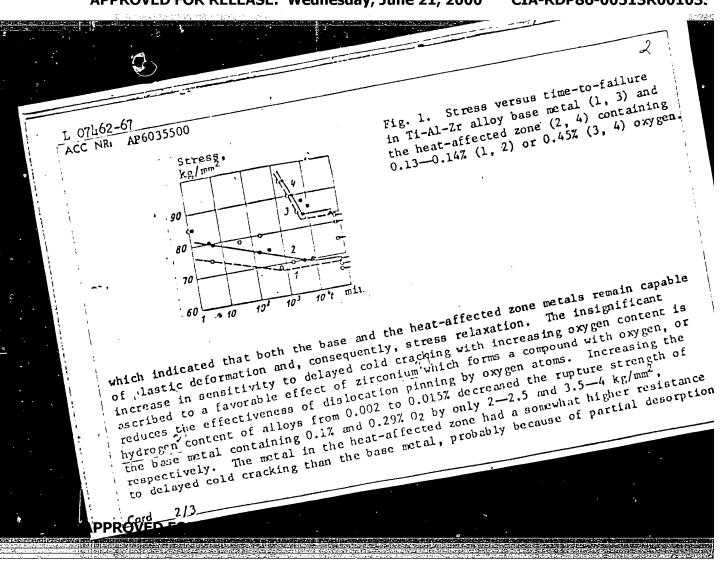
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CIA-RDP86-00513R001033



L 07462-67 ACC NR. AP6035500 of hydrogen in welding. However, the obtained data should not be used as a basis for increasing the presently specified limits (<0.005-0.008%) for the hydrogen content of transium alloys with a tensile strength of 60—70 kg/mm² since, in welded structures subjected to multiaxial stresses in the presence of stress concentrators, higher hydrogen contents, which are possible in the welds in hard-to-reach spots, may result in delayed failures. Orig. art. has: 4 figures. SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 002/ ATD PRESS: 5104 Card APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

26366 s/089/61/011/002/002/015 B1 02 / B2 01

212200

AUTHORS:

Smirnov-Averin, A. P., Galkov, V. I., Ivanov, V. I., Meshcheryakov, V. P., Sheynker, I. G., Stabenova, L. A.,

Krot, N. N., Kozlov, A. G.

TITLE:

Study of a used fuel rod from the First Nuclear Power Station

PERIODICAL:

Atomnaya energiya, v. 11, no. 2, 1961, 122-125

TEXT: This is the second part of a paper, the first having been published in "Atomnaya energiya" v. 8, no. 5, 1960, 446. Results of studies of used fuel rods from the Pervaya atomnaya elektrostantsiya (First Nuclear Power Station) are presented. The element jackets displayed no changes apart from some oxide stains. A comparison between the diameters of a new fuel rod with one after 104 and another after 445 effective burning hours showed that while the diameter had not increased at the upper and lower rod ends, it had grown by less than 0.2 mm in the middle. In order to measure the total α -, β -, and \gamma-activity, the used fuel rod was divided lengthwise into 10 sections. and each of these parts was dissolved in nitric acid. The α -activity was determined by a Aa-49 (Da-49) standard device and an ionization chamber, the Card 1/3

26 366

Study of a used fuel rod from the ...

S/089/61/011/002/002/015 B102/B201

 $\beta\text{-activity}$ by a $4\pi\text{-counter},$ the $\gamma\text{-activity}$ by an ionization chamber as compared to a radium standard. The activity of the inner and outer tubes bounding the fuel element was also measured; these tubes were made of stainless steel. In the middle, the activity of the outer tube was 30% higher than that of the inner tube. This effect can be explained by the change of the neutron spectrum along the diameter of the fuel element. The burn-up in the used fuel elements was determined on the strength of the absolute activity of cesium which was separated by an ion exchanger. The results of a radiometric determination of the burn-up were compared with mass-spectrometric results, and agreement was found to be good. The mean burn-up of the entire element was found to be equal to 53%. Finally, the isotopic composition of transuranic elements was also determined in the used-up fuel. The first part of the present paper has supplied the results of a radiometric determination of the isotopic composition in case of a 12.5% burn-up of the element. The results of a mass-spectrometric analysis are now given. The substance under investigation was to the emitter (tungsten foil, 40 μ) in the form of an aqueous nitrate solution. A thermal ion source served for the purpose. Results are presented in Fig. 5. were used to calculate the mean values of isotopic composition. The Card 2/3

26366 \$/089/61/011/002/002/015 B102/B201 Study of a used fuel rod from the ... following was found (in kg/ton of uranium): Pu²³⁹ - 4.10; Pu²⁴⁰ - 1.53; $Pu^{241} - 0.64$; $Pu^{242} - 0.20$; $Cm^{242} - 2.73 \cdot 10^{-3}$. There are 5 figures and 2 Soviet-bloc references. SUBMITTED: September 13, 1960 Fig. 5: Isotopic composition 7 of transuranic elements along the fuel element: Py 239 Legend: Ordinate: isotopic concentration in kg/ton of U; abscissa: length in cm; (1) bottom; (2) top. Pu 240 Pu 242 Card 3/3

S/C89/61/011/005/U12/017 B1U2/B104

26.2230

AUTHORS:

Smirnov-Averin, A. P., Galkov, V. I., Sheynker, I. G., Meshcheryakov, V. P., Stabenova, L. A., Kir'yanov, B. S.

TITLE:

Determination of burnup in spent fuel elements

PERIODICAL: Atomnaya energiya, v. 11. no. 5, 1961, 454 - 456

TEXT: The burnup of spent fuel elements was determined by determining the Cs^{134} accumulated as a result of an (n,γ) reaction with the stable isotope Cs 133 , and Cs 137 . The activity of the mixture Cs 134 + Cs 137 was measured by scintillation gamma and beta spectrometers and a y-3 coincidence circuit. The apparatus gamma spectrum of the mixture had two photopeaks, the first was caused by the gamma radiation of Cs $(\overline{E}_{\gamma}=0.80~\text{MeV})$, the second by a superposition of the photopeaks of Cs $(\overline{E}_{\gamma}=0.80~\text{MeV})$, $(E_{\gamma} = 0.66 \text{ MeV})$ and Cs^{134} $(\overline{E}_{\gamma} = 0.59 \text{ MeV})$. The internal conversion coefficient was determined from the beta spectrum of Cs 157 to be 0.110

Card 1/2

29547 \$/069/61/011,005/012/017 B102/B104

Determination of burnup ...

in accordance with the tabulated value $-\beta$ -Y coincidences of the isotole mixture were only due to Cs 134 radiation. From intensity and coincidence counting rate measurements the relative Cs content in the mixture was determined. The distribution of both the single isotopes and the mixture along the fuel rod had broad maxima in the middle of the rod. The burnup distribution was calculated from the Cs^{157} content. It was found to be in good agreement with mass-spectrometric measurements. The burnup may also be determined from the content of the To fission fragment (2.2.46) years) which is produced in a yield of 6.02%. This isotope, which is the only long-lived one of this element, is extracted by methyl ketone after t dissolving the material and centrifuging the precipitate. For final purification the cationite Ky-2 (KU-2) is used. Activity is determined with a 4% counter. The burnup determined from Tc was 67% from the cesium mixture 68%, and from mass-spectrometric measurements 66.2%. There are 5 figures and 2 references: 1 Soviet and 1 non-Soviet. The latter reads as follows: Progress in Piplear Energy, Ger. III, Process Chemistry, V. I. Appendix III. london, 1056 Card 1720: September 13, 107 Card 2/2

TVERDOKHLEB, G.V.; MESHCHERYAKOV, V.T.; MAKSIMENKO, M.A.

Ripening of sour cream. Izv.vys.ucheb.zav.; pishch.tekh. 2:

(MIRA 15:5)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy
promyshlennosti, kafedra tekhnologii moloka i molochnykh
produktov. (Sour cream)

£6867 s/080/61/034/004/008/012 A057/A129

also 1372 158350

Shtraykhman, G. A., Al'shits, I. M., Meshcheryakow, V.V., Mudrov, AUTHORS

O. A., Levitzkaya, O. M.,

Copolymers of the polyesters of maleic and methacrylic acid - a TITLE:

new type of binder for glass-reinforced plastics

Zhurnal prikladnov khimii, v. 34, no. 4, 1961, 888 - 894 PERIODICAL:

A method for the preparation of a new type (MA-3 [MA-3]) of unsaturated polyester resins is described. The resins are solutions of maleate polyesters in polyesters of methacrylic acid, which are copolymerized by adding some initiator hardener mixtures. The resulting MA-3 polyester does not contain volatile monomers (Such as styrene, methylmethacrylate etc.). Hence more hygienic work conditions were attained by using MA-3 polyester resin as binder for glass--reinforced plastics. The latter have better mechanical properties then glass--reinforced plastics based on [H -1 (PN-1) maleate polyester resin or 911-MC (911-MS) acrylate polyester binder. An improvement of technology is also attained since MA=3 resin has a longer gelatination time. Unsaturated resins called acrylate polyester resins were developed in the USSR by A. A. Berlin et al. (Ref. 6:

Card 1/8

26867 \$/080/61/034/004/008/012 A057/A129

Copolymers of the polyesters of maleic

Vysokomol. soyed., 1,7, 951, 1959; Ref. 7: Vysokomol. soyed., 1,7, 957, 1959). These resins are products of the polycondensation of glycols and glycerine with dibasic saturated acids (phthalic or sebacic acid) and monobasic methacrylic acid. The introduction of a monobasic unsaturated acid makes possible regulation of the chain growth in the polyesterification process and thus menufacture of acrylate polyesters with a different degree of polymerization. According to Ya. D. Avrasin and A. I. Prigoreva (Ref. 8: Plast. massy, 1, 13, 1960) properties of glass-reinforced plastics based on acrylate polyesters are caused by the functional force and distance between the unsaturated acrylic end-radicals in the polyester chain. Another common polyester resin is the maleate polyester resin desoribed by P. Z. Li et al. (Ref. 5: Plasticheskiye massy, 2, 19, 1959). A drawback of the manufacture of both types, acrylate and maleate polyesters is evolution of styrene vapors which produce a highly poisoned atmosphere. For this reason in the present work the production of polyester resins not containing volatile poisonous compounds and having good physical and mechanical properties was investigated. Preparation of copolymers of maleate polyesters and low molecular acrylate polyesters with the ability to be solvent and copolymerization component according to a patent of the present authors (Ref. 9: Soviet patent no. 132819,

card 2/8

26867 \$/080/61/034/004/008/012 A057/A129

Copolymers of the polyesters of maleic ...

1960), was selected for this purpose. Maleate-phthalate polyethylene glycol was sinthesized and had a higher softening point than the product manufactured by the industry (softening point 45 - 50°C, hard yellow resin, acid number in mgKOH/g of resin - 40-50, viscosity according to VZ -4, of a 50 % solution in styrene at 20°C 4,900 sec.). During polycondensation the temperature was raised gradually up to 200°C and the process was controlled by measuring the acid number and the amount of condensate. The product was dissolved at 70 - 80°C in a mixture of equal parts of dimethacrylate-triethyleneglycol and dimethacrylate (bis--triethyleneglycol) phthalate. This mixture was copolymerized at 20°C by adding an initiator-accelerator system as hardener. For the latter following systems were tested by estimating the gelatination time: isopropylbenzene hydroperoxide cobalt naphthenate, benzoyl peroxide - dimethylaniline, methylethylketone peroxide - cobalt naphthenate (both imported substances). Optimum results (gelatination time 9 hours) were obtained with the last-mentioned system (2% + 2%). Optimum gelationation time (8 hours) with a Soviet hardener was obtained with 3 % isopropylbenzene hydroperoxide + 5 % of a 40 % solution of cobalt naphthenate in styrene. Thus all further tests were carried out using this hardener. It was observed that the hardening ends after 25 days, then the resin has the properties compared in Table 4 and 5 with those of the PN-1 resin. Hardening exotherms (determined by Kh. V. Tsubina) are shown in Figure 3. Using glass gauze

26867 S/080/61/034/094/008/012 A057/A129

Copolymers of the polyesters of maleic

ACTT(8)(2 (ASTT (b)S2) satin 8/3 with and without removal of the lubricant) with the manufactured MA-3 resin, 5 and 10 mm thick sheets were formed and tested 25 days after preparation. The results are presented in Table 6, showing several advantages in relation to the PN-1 resin and 911-MS binder. Investigations carried out by Yu. A. Agashin, M. M. Tuchenko and P. V. Sidyakov in the Institut gigiyeny truda i profzabolevaniy (Institute of Industrial Hygiene and Occupational Diseases) demonstrated the advantage of using MA-3 resin instead of PN-1 resin considering sanitary conditions, since the total amount of styrene formed during hardening of PN-1 resin is 12 times greater than for MA-3 resin. There are 4 figures, 6 tables and 9 references: 6 Soviet-bloc and 3 non-Soviet-bloc. The two references to the English-language publications read as follows: Johan Bjorksten. Polyesters and their applications., N. Y., 1956; Phillip Morgan, Glass Reinforced Plastics, London, 1957.

SUBMITTED:

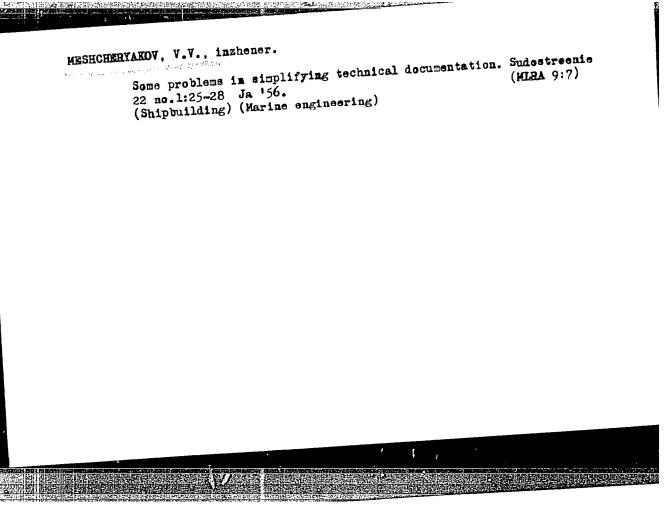
August 4, 1960

Card 4/8

BEL'CHUK, G.A.; DORMIDONTOV, V.K.; MESHCHERYAKOV, V.V.; NAUMOV, V.D.;
PUGACHEV, A.S.; SOKOLOVA, L.V., tekhnicheskiy redaktor.

[Technology of ship building] Tekhnologiia sudostroeniia. Pod obshchei red. V.K.Dormidontova. Leningrad. Gos. soiuznoe izd-vo

sudostroit.promyshl., 1954. 560 p. (Shipbuilding)



MESHCHERYAKOV, Vasiliy Vasil'yevich; DORMIDONTOV, V.K., nauchnyy red.;

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[Hull fitting shops of a shipbuilding enterprise] Korpusnye
tsekhi sudostroitel'nykh predpriistii. Loningrad, Gos.soiuznoe
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(Hulls (Naval architecture)) (Shipfitting)

DORMIDONTOV, Vladimir Konstantinovich; AREF'YEV, Timofey Vasil'yevich;

KISELEVA, Nina Arsen'yevna; KUZ'MENKO, Vladimir Kuz'mich;

LUK'YANOV, Petr Grigor'yevich[deceased]; NIKITIN, Yevgeniy

Ivanovich; TURUNOV, Savva Matveyevich; CHERVYAKOV, V.I., laureat

Ivanovich; TURUNOV, Savva Matveyevich; MESHCHERVAKOV, V.V., inzh.,

Leninskoy premii, inzh., retsenzent; MESHCHERVAKOV, V.V., inzh.,

retsenzent; KAZAROV, Yu.S., red.; CHISTYAKOVA, R.K., tekhn. red.

[Shipbuilding technology] Tekhnologiia sudostroeniia. Pod obshchei red. V.K. Dormidontova. Leningrad, Sudpromgiz, 1962. 695 p. (MIRA 16:1)

(Shipbuilding)

MESHCHERYAKOV, V.V., kand. tekhn. nauk

Introduction of synthetic materials in shipbuilding. Sudostroenie (MIRA 18:7) 30 no.8:9-12 Ag '64.

SMIRNOV, Vasiliy Ivanovich; MESHCHERYAKOV, Vasiliy Vasil'yevich; SMIRNOVA, M.K., kand. tekhn. nauk, retsenzent; AL'SHITS, I.M., nauchn. red.; SHAKHNOVA, V.M., red.

[Testing and inspecting glass reinforced plastics used in shipbuilding] Ispytanie i kontrol' sudostroitel'nykh stekloplastikov. Leningrad, Sudostroenie, 1965. 186 p. (MIRA 18:6)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

MESHCHERYAKOV, V. V. and CHEMTSO, I. A.

"Conversion of Electric Machines and Tables of Winding Data", Generalized, 176 IF, 1950.

TO THE THE POST OF
112-1-778 D

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, p. 127 (USSR)

AUTHOR: Meshcheryakov, V. V.

TITLE: Certain Special Features of Designing Adjustable Miniature Induction

Motors with Contact Rings (Nekotoryye osobennosti rascheta reguliruye-

mykh asinkhronnykh mikrodvigateley s kontaktnymi kol'tsami)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of

Candidate of Technical Sciences presented to the All-Union Correspondence Polytechnical Institute (Vses. zaoch. politekhn. in-t) Moscow, 1956.

ASSOCIATION: All-Union Correspondence Polytechnical Institute (Vses. zaoch. poli -

tekhn. in-t, Moscow)

Card 1/1

Calculating the torque and critical slip of low-power asynchronous motors. Izv.vys.ucheb.zav.; mashinostr. no.2:138-143 '61. (MIRA 14:3)

1. Moskovskiy elektrotekhnicheskiy institut svyazi. (Electric motors, Induction)

MESHCHERYAKOV, V.V., kand.tekhn.nauk, dotsent

Analytic determination of asynchronous braking moments due to higher harmonic fields of the magnetomotive force of low-power asynchronous motors. Izv.vys.ucheb.zav.; mashinostr. no.8:118-126 '62. (MIRA 15:12)

1. Moskovskiy elektrotekhnicheskiy institut svyazi. (Electric motors, Induction)

EWT(d)/FCC(w)/BDS--APGC/ASD/ESD-3--Pg-L/Pk-L/Po-L/ L 10531-63 Pq-4--IJP(C)/GG 8/0103/63/024/006/0850/0855 ACCESSION NR: AP3001097 AUTHOR: Bartkus, T. I. (Vilnius); Gikis, I. I. (Vilnius); Lapienis, F. F. (Vilnius); Lukoshevichyus, S. K. (Vilnius); Meshcheryakov, V. V. (Vilnius); Tel'ksnis, L. A. (Vilnius) TIME: Specialized electronic computer for correlation and spectral analysis of visual and magnetic recordings of random processes SOURCE: Avtomatika i telemekhanika, v. 24, no. 6, 1963, 850-855 TOPIC TAGS: computer, automatic reader, correlation, correlation computation ABSTRACT: Special features are described of a computer which will read large amounts of raw random statistical data in the form of continuous visual tape records and then perform on the analog signal the desired calculations of correlation and spectral density. The computer has three basic sections: an input electron-optical data reader, a delayed memory storage, and an electronic computation section. The reader is a TV pickup of the vidicon type, on whose screen is projected the image of the moving signal trace. The vidicon output, after integration and detection, is the voltage analog of the scanned trace. Card 1/4

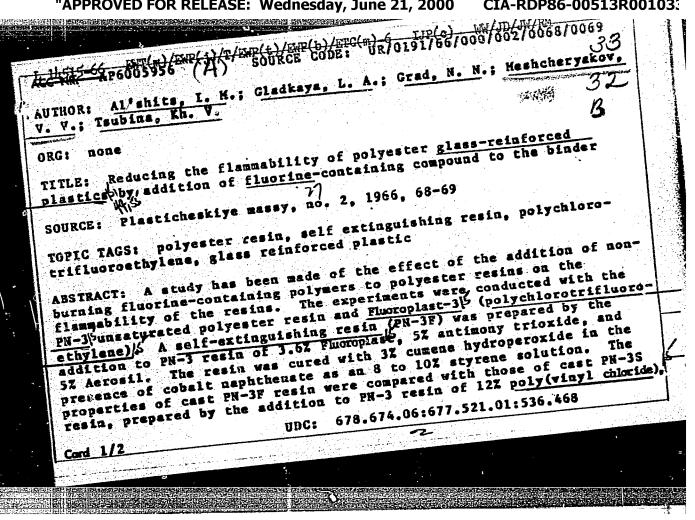
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The original tape recording may be any usual type (photosensitive, directwriting, 25-mm film), providing the trace is black, blue, or green and the tape background is white or transparent. The voltage signals obtained are stored on magnetic tape in FM form and are fed to a special delay section which automatically time-shifts one taped signal with respect to another as required in correlation computation. The delay section (See Fig. 1 of Enclosure) has a playback head (1), an eraser head (2), and a record head (3) for each signal of a pair. Both signals are picked off prior to erasure, amplified (5), and re-recorded via the record heads (3), except that one of the latter is mechanically advanced a distance Δ 1, causing a shift in its re-recorded trace. By rewinding and repeating, the process gives any desired time shift up to 18 sec. The remaining circuitry includes the required multiplication and integration, the output of which is the correlation function in graphical form on punched tape. To determine power spectral density (PSD), the taped correlation function is in turn fed to the computer input; necessary sinusoidal functions and frequency selection are included in the computing section for PSD computation. Fourier series coefficients may also be calculated. Other operating data include an accuracy of correlation calculation of approximately 5%, PSD of approximately 84, an overall dynamic range of 40 db, and a maximum continuous computation

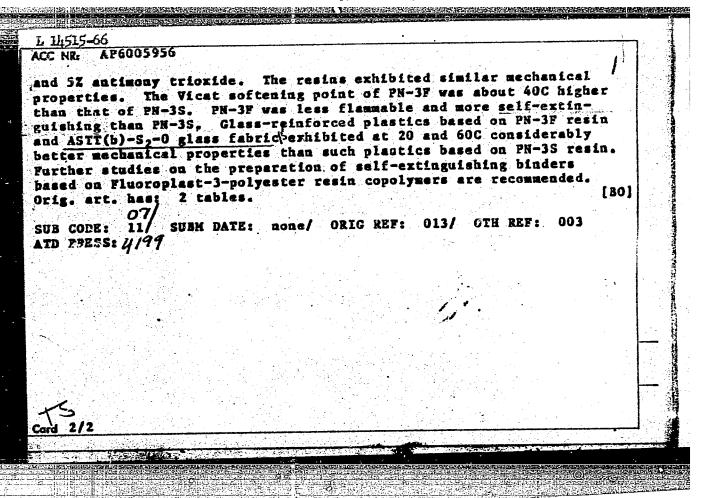
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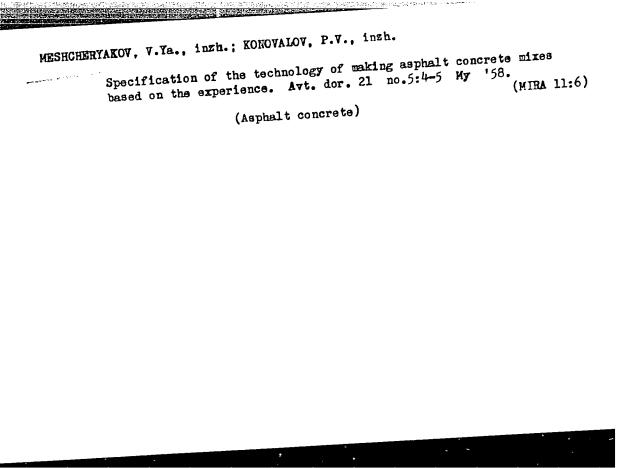
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MESHCHERYAKOV, Ya.

KOTOVA, Te.; MESHCHERYAKOV, Ya.

Treating young plants with growth stimulators. Zhil.-kom.khoz. 4 (MLHA 7:7) no.4:30 54.

1. Assistent kafedry dendrologii Voronezhskogo lesokhozyaystvennogo instituta (for Kotova). 2. Direktor pitomnika Voronezhskogo urravleniya lesoparkovogo khozyaystva (for Meshcheryakov) (Growth promoting substances)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

