A more exact solution ...

μ - Poisson's coefficient; q - intensity of the transversal load. The author selects equations for the solution at the first, second, third and fourth approximations and points out that such a system of functions is selected to satisfy more accurately the conditions of the work of the shell under the uniformly distributed load. If all the approximating functions are taken into consideration, it would be necessary to pick also the members of the form

$\sin \frac{m\pi x}{a} \sin \frac{n\pi y}{b}$ $(m \neq n)$, but in this problem only a symmetrical bending of the panel is considered, thus the latter members cannot have an appreciable influence. Approximating functions satisfy all boundary conditions, and on the "average"

$$\tau_{cp} = \frac{1}{a} \int_0^a \frac{\partial^2 \varphi_{cp}}{\partial x \cdot \partial y} dx = 0 \qquad (8)$$

Then writing down the equations of the Bubnov-Galerkin integral

$$\iint_{(w)} \Phi \delta \varphi d\omega = 0, \qquad \iint W \delta w d\omega = 0$$

Card 3/7

A more exact solution ... s system is obtained of the algebraic non-linear equations. A numerical example is given then where it is proposed to solve at the fourth approximation the problem $q_4 = \frac{49 \cdot 240\pi^6}{192(1-\nu^2)} \left(\gamma + \frac{1}{\gamma}\right)^2 x_7 + \frac{49\pi^4}{4}\left[\frac{49(x_1+x_2)}{4} - \frac{392}{3}\beta_2 x_2 - \frac{19208}{187}\beta_3 x_7 + \frac{9800}{429}\beta_5 x_1 - \frac{392}{3}\beta_6 x_3 - \beta_7 + \frac{8}{45}\beta_1 x_1 + \frac{392}{165}\beta_1 x_3 + \frac{9800}{429}\beta_1 x_5 - \frac{19208}{195}\beta_1 x_7 + \frac{392}{165}\beta_3 x_1 - \frac{618}{13}\beta_3 x_3 - \frac{5000}{51}\beta_5 x_5 - \frac{19208}{171}\beta_5 x_7 - \frac{19208}{195}\beta_7 x_1 - \frac{19208}{187}\beta_7 x_3 - \frac{19208}{171}\beta_7 x_5 - \frac{392}{3}\beta_7 x_7\right]$.

The coefficients for the squares could be obtained from the general expression

$$\frac{4n^4}{4n^2 - i^2}$$

Where i - refers to $\mathcal{B}(\beta_{ii})$, and n - to $x^2(x^2_{nn})$. For the products $x_n x_m$ they do not depend on the order of i and n. The quantities

Card 4/7

A more exact solution ...

are non-dimensional. The parameter of the stresses $\beta_i = \frac{A_{ii}}{Eh^2}$, the ratio of the sides $\gamma = \frac{b}{a}$, the parameter of the bending $x_i = \frac{f_i}{h}$, the parameter of the principal curvatures $\alpha_1 = \frac{k_1 a^2}{h}$, $\alpha_2 = \frac{k_2 b^2}{h}$, the parameter of the uniformly distributed transversal load $q_i = \frac{q a^2 b^2}{Eh^4}$.

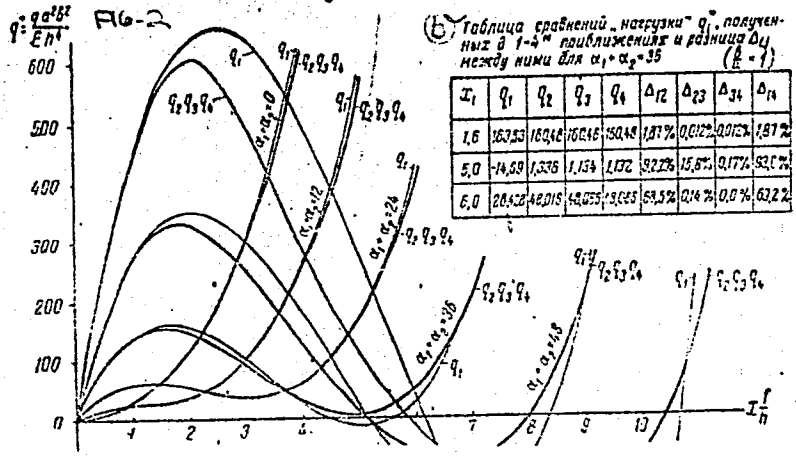
The graphic presentations for the solution of the equations of the type (9) for all four approximations is shown in Fig. 2. The difference between the first and the second approximation is considerable, but this difference becomes small between the third and the fourth approximation. From this it follows that the Bubnov-Galerkin's method leads to a convergent solution so that for most practical cases it is possible to accept the second approximation.

Card 5/7

A more exact sdlution ...

Fig. 2. The dependence of the parameters of the load from the bending of the panels of the shells.

Legend: a) Values x_3, x_5 and x_7 for the shell with $\alpha_1 + \alpha_2 = 36$; b) Table of comparison of the load q_i, obtained in the approximations 1 - 4, the difference Δ_{ij} between them for $\alpha_1 + \alpha_2 = 36$.



b) Таблица сравнений „нагрузки" q_i^*, полученных в 1-4 приближениях и разница Δ_{ij} между ними для $\alpha_1 + \alpha_2 = 36$ $\left(\frac{h}{R} = \frac{1}{7}\right)$

x_1	q_1	q_2	q_3	q_4	Δ_{12}	Δ_{23}	Δ_{34}	Δ_{14}
1,6	163,53	160,46	160,46	160,48	1,87%	0,012%	0,012%	1,87%
5,0	-14,59	1,376	1,134	1,132	92,2%	15,6%	0,177%	92,2%
6,0	20,422	46,015	43,055	43,065	55,5%	0,14%	0,0%	52,2%

Card 6/7

Card 7/7 оболочек Фиг. 2 конец

KOLTUNOV, M.A.

More exact solution of the stability problem for rectangular panels of flexible shallow shells [with summary in English]. Vest. Mosk. un. Ser. 1: Mat., mekh. 16 no.3:37-45 My-Je '61. (MIRA 14:7)

1. Kafedra teorii uprugosti Moskovskogo universiteta.
(Elastic plates and shells)

39639
S/191/62/000/008/010/013
B124/B180

15.8350

AUTHORS: L'vov, B. S., Koltunov, M. A., Kuznetsov, V. N., Shpakovskaya, Ye. I.

TITLE: Physicomechanical characteristics of glass-reinforced plastics based on polyester resin. Elasticity constants of glass-reinforced plastics

PERIODICAL: Plastiqheskiye massy, no. 8, 1962, 38-40

TEXT: Experimental results in determining the elasticity constants and the effect of loading and deformation rates on the stress-strain diagram of glass-reinforced plastics based on ПН-1 (PN-1) polyester resin and Т-1 (T-1) glass fabric have been obtained in the laboratoriya stekloplastikov NIIPM (Laboratory of Glass-reinforced Plastics of NIIPM) and the problemnaya laboratoriya fiziko-mekhanicheskikh svoystv polimerov Moskovskogo universiteta (Special Research Laboratory for the Physicomechanical Properties of Polymers, Moscow State University). Isopropyl benzene hydroperoxide and cobalt naphthenate were used as hardeners at room temperature. Test specimens were cut out from the

Card 1/3

Physicomechanical characteristics ...

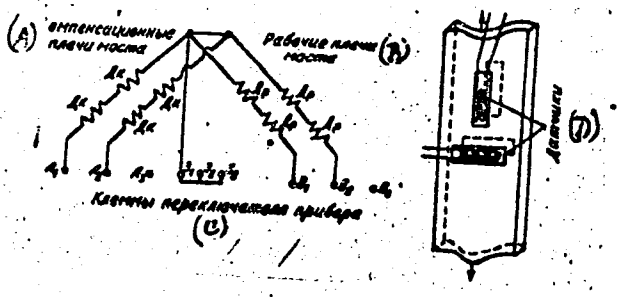
fabric with their axes at angles φ to the warp of 0, 15, 30, 45, 60, 75, and 90°. They were kept at 80°C for 12 hrs. Loading and unloading were done in steps of 100 kg each, and measured with an accuracy of ± 1%. Fig. 1 shows the circuit diagram of the extensometer pickups which measured with 5% accuracy. Their readings were recorded on a static tensometer sensitivity $1 \cdot 10^{-5}$. Total error of the system did not exceed 3%. The stress-strain diagram is linear up to a deformation of $\sim 3 \cdot 10^{-3}$. Worst results are with $\varphi = 45°$. The fabric has three symmetry axes. The glass-reinforced plastic investigated is orthotropic.

$$E_\varphi / E_0 = \frac{\lambda}{\lambda \cdot \cos^4\varphi + B\sin^2\varphi \cdot \cos^2\varphi + \sin^4\varphi}$$, where φ is the angle between the warp and the direction of tensile stress and E = the elasticity modulus in the same direction. $\lambda = \frac{E_{90}}{E_0}$ and $2B = 4\frac{E_{90}}{E_{45}}(1 + \lambda)$. The elasticity modulus values calculated from these equations are in satisfactory agreement with experimental data. There are 5 figures.

Card 2/3

Physicomechanical characteristics ... S/191/62/000/008/010/013
B124/B180

Fig. 1. Circuit diagram of the extensometer pickups: ($Д_к$) compensation pickup, ($Д_р$) operating pickup.
Legend: (A) compensation arms of the bridge, (B) operating arms of the bridge, (C) changeover terminals, (D) pickup.



Card 3/3

L'VOV, B.S.; KOLTUNOV, M.A.; KUZNETSOV, V.N.; SHPAKOVSKAYA, Ye.I.

Physical and mechanical indices of glass plastics with a polyester resin base. Elastic constants of glass plastics. Plast.massy no.8:38-40 '62. (MIRA 15:7)

(Glass reinforced plastics—Testing)

KOLTUNOV, M.A.; BEZUKHOV, V.N.

On the thermomechanical properties of caprone. Vest. Mosk. un. Ser. 1:Mat., mekh. no.6:51-61 N-D '62. (MIRA 16:2)

1. Kafedra teorii uprugosti Moskovskogo universiteta.
(Nylon)

KOLTUNOV, M.A.

State of stress in flexible shallow shells. Vest. Mosk. un. Ser. 1: Mat.,mekh. 17 no.4:63-68 Jl-Ag '62. (MIRA 15:7)

1. Kafedra teorii uprugosti Moskovskogo universiteta.
(Strains and stresses)
(Elastic plates and shells)

S/191/63/000/002/010/019
B101/B186

AUTHORS: Koltunov, M. A., Bezukhov, V. N.

TITLE: Creeping and relaxation of polyamide resin 68 in one-dimensional stretching

PERIODICAL: Plasticheskiye massy, no. 2, 1963, 31-36

TEXT: The problemnaya laboratoriya fiziko-mekhanicheskikh svoystv polimerov mekhaniko-matematicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova (Special Research Laboratory for Physicomechanical Properties of Polymers of the Division of Mechanics and Mathematics of the Moscow State University imeni M. V. Lomonosov) tested the mechanical properties of polyamide resin 68 for machine parts subject to stress and high temperatures. The σ-versus-ε curves for one-dimensional stretching were plotted between 20 and 110°C. σ is directly proportional to ε up to a relative elongation of 8%. This linear curve section ending with σ_p is followed by an intense flowing at a 10% higher value, σ_{fl}, and rupture occurs at σ_t, the time-dependent

Card 1/3

resistance. Hysteresis was observed under alternating stress. Irreversible flowing occurred above σ_f. The following equations hold: $\sigma_f = (5.16 - 0.033t/t_o)\sigma_m$, where $\sigma_m = 100$ kg/cm^2, $t_o = 1°C$; $E = (30 - 0.665t/t_o + 0.0038t^2/t_o^2)E_o$, where E is the elastic modulus, $E_o = 10^3$ kg/cm^2. The after-effect is expressed by: $\epsilon_r = [-1.3(\sigma/\sigma_t)^2 + 0.245(\sigma/\sigma_t) + 0.1](\sigma/\sigma_t)\psi(t)\ln(\tau/\tau_o + 1)$, where ϵ_r is the residual plastic deformation, τ = time, $\tau_o = 60$ sec, $\sigma_t = 470$ kg/cm^2, and $\psi(t) = \begin{cases} \text{const} = 1 \text{ at } t \leq t_o \\ (t/t_o)^n \text{ at } t > t_o;\ n \approx 4. \end{cases}$ A function of the form $F(\epsilon_r, \sigma, \tau) = 0$ is derived for the relaxation curves on the basis of the aging theory, and the following is obtained: $\int_{\sigma/\sigma_t}^{\sigma/\sigma_t} dz/z^2(az^2 + \beta z + \gamma) = (E/\sigma_o)\psi(t)\ln[(\tau + \tau_o)/\tau_o]$. For resin 68, the

Card 2/3 -

KOLTUNOV, M.A.; BEZUKHOV, V.N.

Analysis of creep of orthotropic glass plastics. Vest. Mosk. un. Ser. 1: Mat., mekh 18 no.6:64-70 N-D'63. (MIRA 17:2)

1. Kafedra teorii uprugosti Moskovskogo universiteta.

EWT(d)/EWT(m)/EWP(w)/EPF(c)/EPR/EWA(h)
Pr-4/Ps-4/Peb WW/EM/RM

NR: AP4047613

Koltunov, M. A.

...n the design of flexible, shallow orthotropic shells with ... strains

Moscow. Universitet. Vestnik. ... Matematika, ..., no. 5, 1964, 79-88

...: shallow shell, orthotropic shell, flexible shell, ... plastic, glass reinf... shell ... strain effect

Nonlinear equations of continuity and equilibrium are ... with consideration of the rate ... of deformation) ...xible, shallow shells made of glass-reinforced plastics ... possess orthogonal anisotropy of mechanical properties) ... linear stress-strain relationship ... Boltzmann-Volterra ... Kirchhoff hypothesis on preservation of normals and the ... of orthotropy during the whole ... deformation are

the stresses normal to the middle surface of the shell are ... The discussion is illustrated by an approximate solu- ...ations derived for a particular case when the analytical ...n for experimental relaxation curves is given. Each de- ...ed stress function is considered as a product of a known ...nction (depending only on coordinates) and a creep func- ...ending on time) which is determined. The results obtained ...ir agreement with experimental data. If the time dependent ...erived continuity and equilibrium equations are neglected, ...f regular nonlinear equations for the thin shells will ... The linear (elastic) problem in the theory of shells ...eration of the linear prior strains can also be solved ...thod without any considerable difficulties. Orig. art. ...gures and 30 formulas

ASSOCIATION: Kafedra teorii uprugosti (Department of the Theory of ...

AP4047613

31Jan64

AS NO REF SOV:

KOLTUN, M.M.; LANDSMAN, A.P.

Clarification and temperature stabilization of silicon photodells for operation under radiation heat transfer conditions. Kosm. issl. 2 no.4:628-632 Jl-Ag '64. (MIRA 17:9)

ADAMOVICH, Aleksey Nikolayevich; KOLTUNOV, Dmitriy Vasil'yevich; KRUKOVSKIY, M.Ya., nauchn. red.; VAITS, V.M., red.

[Cementing foundations of hydraulic structures] TSementatsiia osnovanii gidrosooruzhenii. Izd.2., dop. Moskva, Izd-vo "Energiia," 1964. 513 p. (MIRA 18:1)

KOLTUNOV, G., polkovnik

On the Korsun' field. Tekh. i vooruzh. no.2:8-11 F '64.
(MIRA 17:9)

KOLTUNOV, M.A.; BEZUKHOV, V.N.

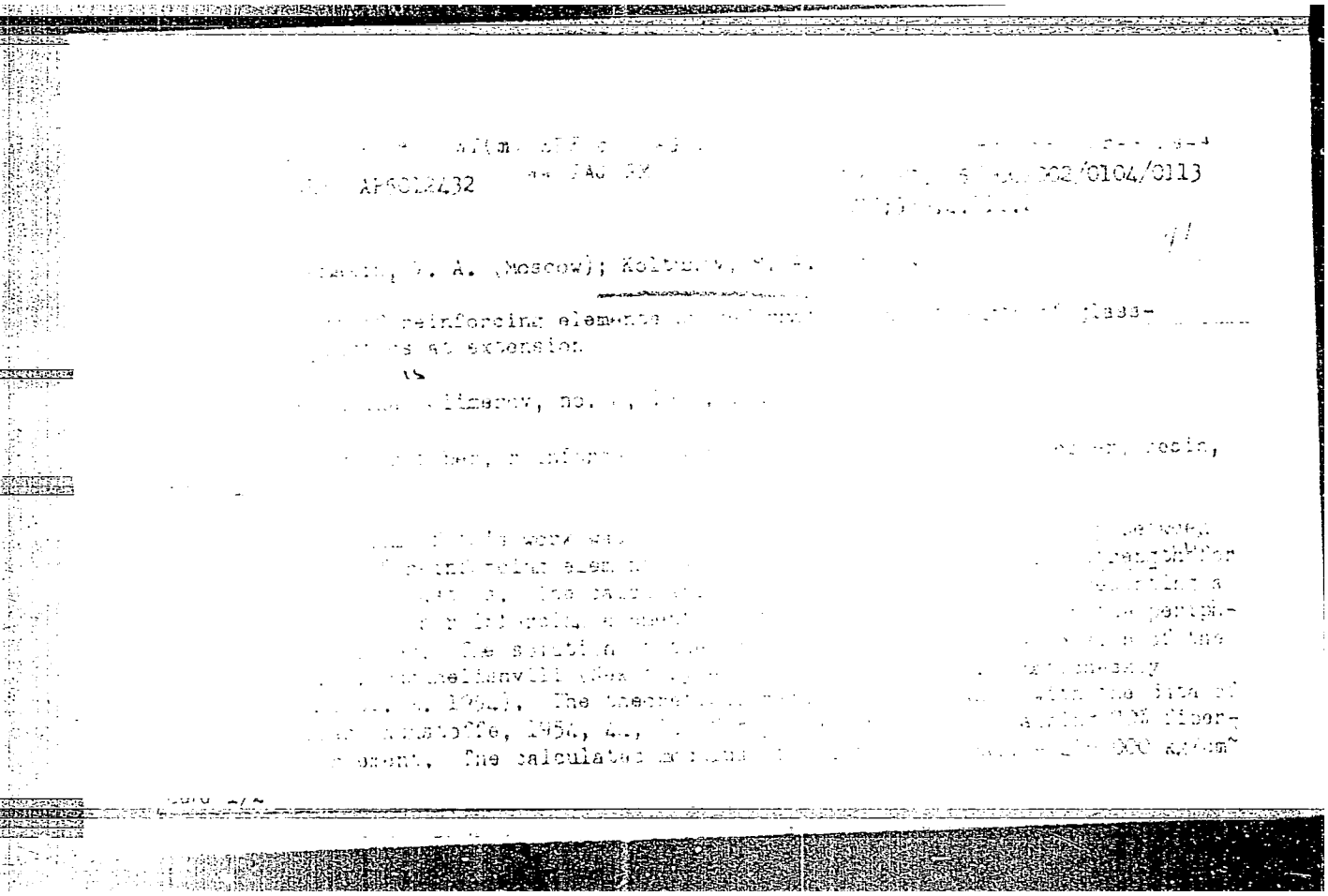
Modeling of glass reinforced plastics as high-strength structural material. Plast. massy no.12:34-39 '64.

(MIRA 18:3)

KOLTUNOV, M.A.

Design of flexible shallow orthotropic shells with linear heredity. Vest. Mosk. un. Ser. 1: Mat., mekh. 19 no.5:79-88 S-O '64. (MIRA 17:12)

1. Kafedra teorii uprugosti Moskovskogo universiteta.



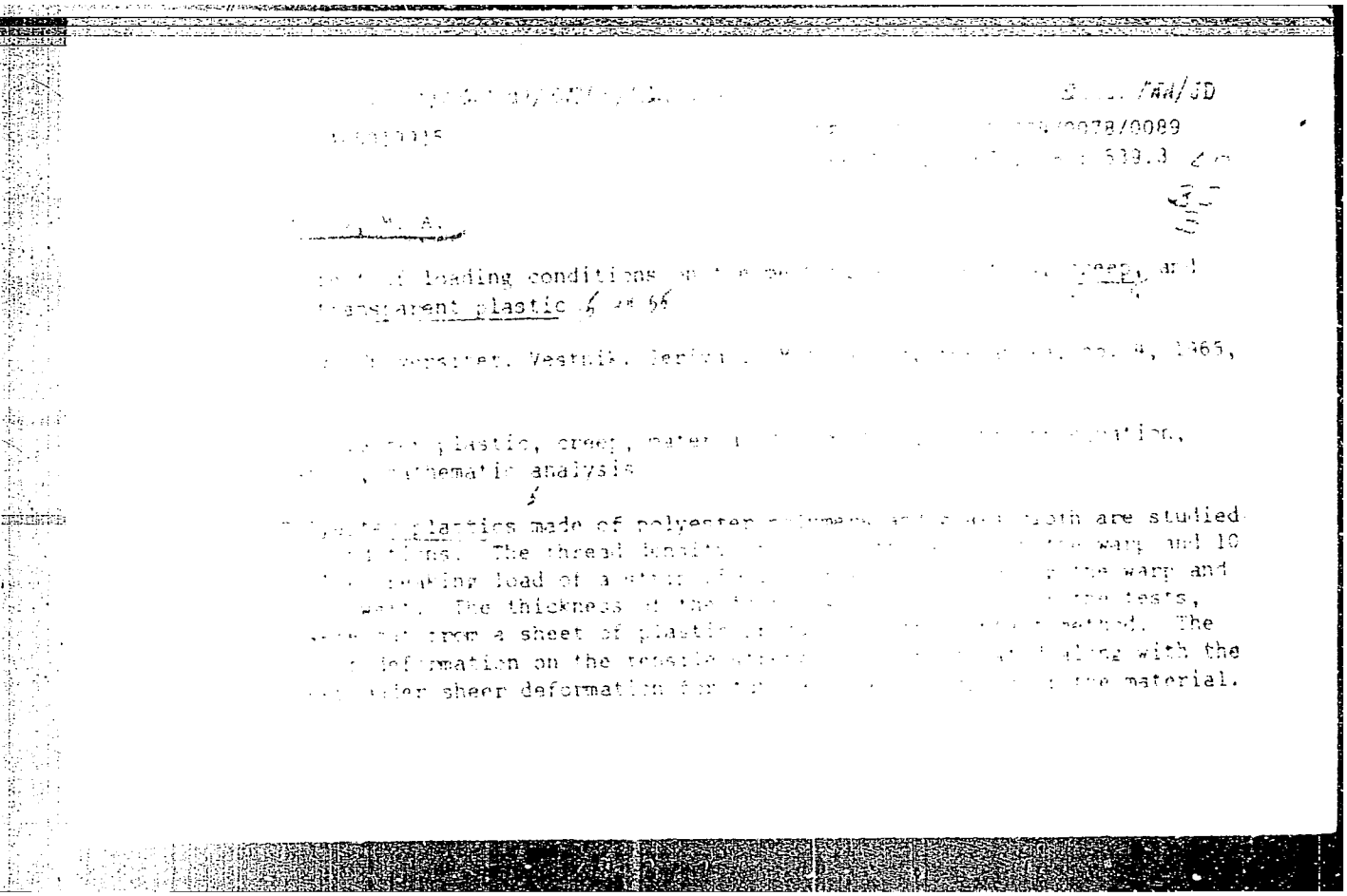
[illegible]

[illegible] 1.95% with the experimental [illegible]. And the [illegible] and experimental strength [illegible] kg/cm^2 and σ exp = 8400 kg/cm^2 differ from each other by 7.9%. Similar agreement between the [illegible] is obtained for alkali glass [illegible] glass [illegible] with an alcoholic [illegible]. Orig. art. has: [illegible], and 12 equations.

[illegible]

[illegible] ENCL: [illegible] [illegible] CODE: MT

[illegible] OTHER: [illegible]



AP5013915

...expressions are adduced to approximate the variables of loading and ... be appli-
... particular, the Boltzmann-Volterra ... mechanical pro-
...tion is presented. ... 1) creep de-
...terials depend on the loading ... loading for
...constant loading is proporti... the de-
... 3) relaxation of stress ... creep and relaxa-
... the effect of loading on ... is grate-
... by an integral-differential ... ...trov for their
... V. N. Ovsyannikov, V. N. ... figures, 3
... the experiments." Orig. art. has: ...

...kafedra teorii uprugosti MGU ... Theory, MGU)

... ENCL: 00 ... SUB CODE: MT, MA

... OTHER: 00...

AP5011248

Akhmedov, F. A.; Koltunov, M. A.; Kozlov, P. V.

Dependence of some mechanical characteristics of polyformaldehyde on ... and rate of deformation

Vysokomolekulyarnyye soyedineniya, v. 7, ...

formaldehyde, tensile strength, ... deformation testing machine

Results are given on the investigation ... strength properties in polyformaldehyde on deformation rate and temperature. Plate samples ... at a pressure of 1200 kg/cm² at ... They were held at this pressure ..., then cooled for 5 sec. ... Tensile ... measured on an ZMI-250 testing ma... ... mm/min, which correspond ... Deformation was measured ... with ... micrometers. Results show that increase in deformation rate ... increase in flow point, proportionality ... strength ... deformation, however, decreases with increase ... deformation rate.

AP5011248

f all mechanical properties on deformat... rate is exponential, whereas strength and elasticity modulus prove to be parabolic functions of between 0°C and the melting point. Each mechanical property passes extreme value in its dependence on deformation rate. Orig. art. has: table, and 6 formulas.

Moskovskiy gosudarstvennyy universitet (Moscow State University)

Jun64 ENCL: 00 SUB CODE: OC, MT

OTHER: 00

AKHMEDOV, F.A.; KOLTUNOV, M.A.

Mechanical properties of polyformaldehyde. Plast. massy no.10:28-30 '65. (MIRA 18:10)

KOLTUNOV, M.A.

Effect of loading conditions on the mechanical characteristics, creep, and relaxation of glass-reinforced plastics. Vest. Mosk. un. Ser. 1: Mat., mekh. 20 no.4:78-89 Jl-Ag '65.
(MIRA 18:9)

1. Kafedra teorii uprugosti Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.

AKHMEDOV, F.A.; KOLTUNOV, M.A.; KOZLOV, P.V.

Creep of crystalline polymers. Vest. Mosk. un. Ser. 2: Khim. 20 no. 5:89-92 S-O '65 (MIRA 18:12)

1. Kafedra vysokomolekulyarnykh soyedineniy Moskovskogo gosydarstvennogo universiteta. Submitted Dec. 22, 1964.

L 21999-66 EWT(m)/EWP(j)/T IJP(c) WW/RM

ACCESSION NR: AP5024503 UR/0191/65/000/010/0028/0030
678.644'141.01:539.3

AUTHOR: Akhmedov, F. A.; Koltunov, M. A.

TITLE: Mechanical properties of polyformaldehyde

SOURCE: Plasticheskiye massy, no. 10, 1965, 28-30

TOPIC TAGS: polyformaldehyde plastic, mechanical stress, solid mechanical property, elongation, creep, tensile stress, mathematic analysis

ABSTRACT: The mechanical properties of polyformaldehyde were studied and equations describing them were developed. Polyformaldehyde samples prepared at the VNIIPTKhimmash were cast at 1200 kg/sq cm at 190-195 C, held for 5 sec, and cooled for 5 sec. Mechanical properties, creep, and relaxation were studied. The mechanical characteristics (elongation, modulus of elasticity and yield point) of polyformaldehyde are dependent on the rate of deformation. This relationship was found previously to be characteristic for other polymeric materials. Under uniaxial stress and normal temperature under stresses below half

Card 1/2

L 21999-66

ACCESSION NR: AP5024503

2

the tensile strength, polyformaldehyde has the properties of a linear viscoelastic medium which can be described by the linear Boltzmann-Volterra equation. At stresses greater than half the ultimate strength, the nonlinear equation of Yu. N. Rabotinov applies. "The authors thank V. I. Shobolov for participation in the experimental work." Orig. art. has: 7 figures and 20 equation.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: II

NR REF SOV: 006 OTHER: 001

Card 2/2 BK

ACC NR: AP6022189 SOURCE CODE: UR/0055/66/000/002/0112/0119

AUTHOR: Koltunov, M. A.; El'-Kurmani, A.

ORG: Department of Elasticity Theory (Kafedra teorii uprugosti)

TITLE: Stability of a closed, flexible, orthotropic, cylindrical shell when linear heredity is considered

SOURCE: Moscow. Universitet. Vestnik. Seriya 1. Matematika, mekhanika, no. 2, 1966, 112-119

TOPIC TAGS: orthotropic shell, shell structure stability, cylindric shell structure, fiberglass, elastic stress

ABSTRACT: Presented are detailed calculations of the stability of a closed, circular, axially stressed cylindrical shell of orthotropic fiberglass with a reinforcing linen crossweave. The constructed elastic solutions to the problem indicate that inclusion of linear heredity factors lowers the critical load values for fiberglass shells. Critical loads of shells from materials with linear heredity depend essentially on loading programs and increase as the rate of loading increases. Orig. art. has: 17 formulas and 2 figures.

SUB CODE: 13,11 SUBM DATE: 28Feb65/ ORIG REF: 006

Card 1/1

UDC: 539.3

KOLTUNOV, M. V.; GRACHEVA, L.I.; FILIPPOVA-NUTRIKHINA, A.L.; [illegible]-RESHETNIKOVA, A.D.; FADEYEVA, M.A. and yesikov, m.s.

"The Results of Testing Nursery-age Children and their Mothers for Toxoplasmosis"

Voprosy toksoplazmoza, report theses of a conference on toxoplasmosis, Moscow, 3-5 April 1961, publ. by Inst Epidemiology and Microbiology im. N. F. Gamaleya, Acad. Med. Sci USSR, Moscow, 1961, 69pp.

KOLTUNOV P. S.

PA 10T68

USSR/Gamma Rays - Penetration Jun 1947
X-ray inspection

"Radioscopy of Industrial Products by Gamma Rays," P. S. Koltunov, 6 pp

"Vestnik Inzhenerov i Tekhnikov" No 6

Largely mathematical discussion illustrated with photographs, diagrams, and formulae.

10T68

KOLTUNOV, P. S.

PA 37/49T81

USSR/Engineering Sep 48
Welding - Methods
Welding - Preparation

"Inductive-Ohmic Heating in Welding Construction Steel," P. S. Koltunov, Engr, 2 pp

"Vest Mashinostroy" Vol XXVIII, No 9

High-carbon and alloy structural steels cannot be welded at low temperatures. Describes induction heating apparatus used for preheating pipes during construction of TETs at Frunze. Includes four sketches.

37/49T81

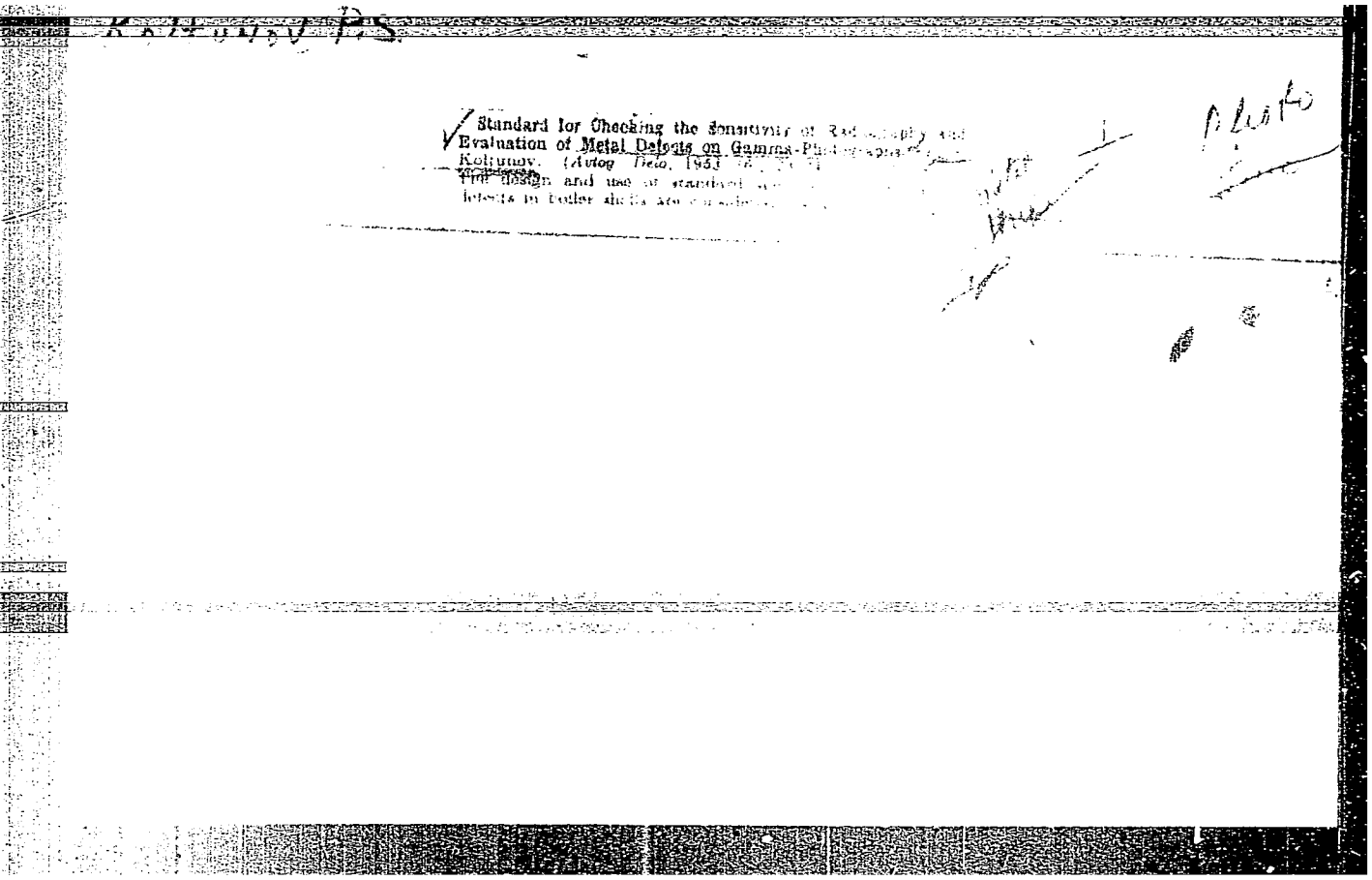
KOLTUNOV, P. S. Cand Tech Sci

Dissertation: "Vibrational Strength of Welded Joints of Steel. SKhL-2."

31/10/50

Central Sci Res Inst of Industrial Constructions-TsNIIPS.

SO Vecheryaya Moskva
Sum 71



Standard for Checking the Sensitivity of Radiography and Evaluation of Metal Defects on Gamma-Ray Photographs
Kolpinov. (Zavod. Lab., 1953)
The design and use of standard [illegible] defects in boiler sheets are [illegible]

KOLTUNOV, P.S.

ANTONOV, I.A., kand.tekhn.nauk; ANTOSHIN, Ye.V., inzh.; ASINOVSKAYA, G.A., inzh.; VASIL'YEV, K.V., kand.tekhn.nauk; GUZOV, S.G., inzh.; DEYKUN, V.K., inzh.; ZAYTSEVA, V.P., inzh.; KAZHEKOV, P.P., inzh.; KARAN, Yu.B., inzh.; KOLTUNOV, P.S., kand.tekhn.nauk; KOROVIN, A.I., inzh.; KRZHECHKOVSKIY, A.K., inzh.; KUZNETSOVA, Ye.I., inzh.; MATVEYEV, N.N., tekhnik; MOROZOV, M.Ye., inzh.; NEKRASOV, Yu.I., inzh.; NECHAYEV, V.D., kand.tekhn.nauk; NINBURG, A.K., kand.tekhn.nauk; SPEKTOR, O.Sh., inzh.; STRIZHEVSKIY, I.I., kand.khim.nauk; TESMENITSKIY, D.I., inzh.; KHROMOVA, TS.S., inzh.; TSEUNEL', A.K., Inzh.; SHASHKOV, A.N., kand. tekhn.nauk, dots.; SHELECHNIK, M.M., inzh.; SHUKHMAN, D.Ya., inzh.; EDEL'SON, A.M., inzh.; VOLODIN, V.A., red.; UVAROVA, A.F., tekhn.red.

[Machines and apparatuses designed by the All-Union Institute of Autogenous Working of Metals] Mashiny i apparty konstruktsii VNIIAvtogen. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, 1957. 173 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut avtogennoi obrabotki metallov, no.9)
(Gas welding and cutting--Equipment and supplies)

KOLTUNOV, P.S., kand. tekhn. nauk; NEKRASOV, Yu.I., inzh.

Comparative testing of torches for propane-butane welding. Svar. proizv. no.11:27-29 N'63. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy obrabotki metallov.

ARTYUKHOVSKAYA, S.A.; TESMENITSKIY, D.I.; ASINOVSKAYA, G.A.; BOYKO, M.I.; KOLTUNOV, P.S.; NEKRASOV, Yu.L.; KOROVIN, A.I.; NECHAYEV, V.D.; NINBURG, A.K.; SHASHKOV, A.N.; EDEL'SON, A.M.; ANTONOV, I.A., kand. tekhn. nauk, red.

[Using acetylene substitute gases for flame metalworking.] Primenenie gazov-zamenitelei atsetilena pri gazoplamennoi obrabotke metallov. Moskva, Mashinostroenie, 1964. 150p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut avtogennoi obrabotke metallov. Spravochnye materialy po gazoplamennoi obrabotke metallov, no.23). (MIRA 17:9)

KOLTUNOV, P.S., kand.tekhn.nauk; NEKRASOV, Yu.I., inzh.

Welding brass using liquid fuels. Svar.proizv. no.2:30-31 F '64.
(MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy obrabotki metallov.

KOLTUNOV, S.I. (L'vov, ul. Pavlika Morozova, d.5, kv.1)

Treatment of hip fractures by medullary nailing. Nov.khir.arkh. no.6:41-44 N-D '58. (MIRA 12:3)

1. Kafedra fakul'tetskoy khirurgii pediatricheskogo i sanitarno-gigiyenicheskogo fakul'tetov (zav. - prof.V.I. Akimov) L'vovskogo meditsinskogo instituta i 5-ya gorodskaya klinicheskaya bol'nitsa.
(HIP JOINT--FRACTURES)

KOLTUNOV, S. I. Cand Med Sci -- (diss) "Treatment of hip fractures by ~~with~~ intramedullary fixation with a metallic nail." L'vov, 1959. 15 pp (L'vov State Med Inst), 350 copies (KL, 44-59, 129)

KOLTUNOV, S.I. (L'vov, ul. Pavlika Morozova, d.5, kv.1)

Observation of a tumor of arterio-venous anastomosis (glomus tumor). Nov.khir.arkh. no.6:117 N-D '59. (MIRA 13:4)

1. Kafedra fakul'tetskoy khirurgii (zaveduyushchiy - prof. V.I. Akimov) pediatricheskogo i sanitarno-gigiyenicheskogo fakul'tetov L'vovskogo meditsinskogo instituta i khirurgicheskoye otdeleniye 5-y klinicheskoy bol'nitsy.
(BLOOD VESSELS--TUMORS)

KOLTUNOV, S.I.

Effect of a metal pin in the intraosseous fixation of the hip on the surrounding tissues, structure and rate of osseous callus formation. Eksp. khir. i anest. 7 no.6:68-70 N-D '62. (MIRA 17:10)

1. Iz kafedry fakul'tetskoy khirurgii pediatricheskogo i sanitarno-gigiyenicheskogo fakul'tetov (zav. - prof. M.F. Kamayev) L'vovskogo meditsinskogo instituta i iz 5-y klinicheskoy bol'nitsy (glavnyy vrach I.I. Khoma) L'vova.

1. KOLTUNOV, S. S.
2. USSR (600)
4. Pneumatic Tools
7. Throttles for pneumatic equipment, Stan. i instr. 23 No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

KOLTUNOV, S.S.

Improved automatic machine for broaching bushes along the radius.
Avt.prom. 27 no.8:39-41 Ag '61. (MIRA 14:10)

1. Gor'kovskiy avtozavod.
(Broaching machines)

KOLTUNOV, S.S.

Practice in the mechanization and automation of assembling operations at the Gorkiy Automobile Plant. Mashinostroitel' no.3:24 Mr '62. (MIRA 15:3)

(Gorkiy—Automobile industry) (Automation)

KOLTUNOV, S.S.

Pneumatic multispindle screwdrivers. Avt.prom. 28 no.11:36-38 N '62. (MIRA 16:1)

1. Gor'kovskiy avtozavod.

(Screwdrivers)

KOLTUNOV, S.S.

Automatic device for unscrewing bolts. Mashinostroitel' no.3:12-13 Mr '63. (MIRA 16:4)

(Screwdrivers)

KOLTUNOV, S.S.

Automation of Manville thread-rolling machines. Avt. prom. 29 no.4:43 Ap '63. (MIRA 16:6)

1. Gor'kovskiy avtozavod.
(Machine tools) (Automation)

KOLTUNOV, S.S.

Pneumatic multispindle nut runner. Avt. prom. 31 no.2:36-38 F '65. (MIRA 18:2)

1. Gor'kovskiy avtozavod.

KOLTUNOV, S. YA.

USSR/Engineering - Welding, Methods Mar 52

"Building Up Bearings by Welding With Hydrogen Flame," G.V. Likhvitskiy, S. Ya. Koltunov, G. Ye. Kornblit, Engineers

"Avtogen Delo" No 3, pp 25, 26

Describes technology of method indicating essential advantages: possiblity for restoring dimensions of bearing without melting out old metal; high adhesiveness between babbitt and base metal considerably better than in case of hot pouring; building up babbitt with thin layers from 0.3 mm; practical absence of metal loss (0.3-0.5%); possibility for building up large details without removal.

212T27

1. TSYMARNYY, A.: LIKHNITSKIY, G.: KOLTUNOV, S.

2. USSR (600)

4. Babbitt Metal

7. Method of melting and pouring babbitt by means of hydrogen flame. Mor. flot. 12. no. 12. 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

ZASLAVSKIY, I.; KOLTUNOV, S.

Reconditioning rotor collars of large generators by chromium plating. Mor. i rech.flot 13 no.7:24-25 N '53. (MLRA 6:11)
(Dynamos)

1. KOLTUNOV S.YA. Eng., LIKHNITSKIY G.V. Eng.

2. USSR (600)

4. Solder and Soldering

7. Introduction of smelting and soldering with hydrogen flame in construction work, Avtog. delo 24 no.2, 1953.

9. Mathly List of Russian Accessions, Library of Congress, April 1953, unclass.

KOLTUNOV, S. Ya.

14(7) PHASE I BOOK EXPLOITATION SOV/3200

Danilov, Vasiliy Matveyevich, Semen Yakovlevich Koltunov, and Georgiy Vital'yevich Likhnitskiy

Prakticheskoye rukovodstvo po vodorodnoy naplavke babbita (Manual On Hydrogen Babbitting) Moscow, Mashgiz, 1959. 94 p. 10,000 copies printed.

Reviewer: F.P. Voloshenko, Candidate of Technical Sciences, Docent; Ed.: M.S. Soroka; Chief Ed. (Southern Division, Mashgiz): V.K. Serdyuk, Engineer.

PURPOSE: This manual is intended for technical personnel of machine-building plants and repair shops.

COVERAGE: The manual discusses the lining of metal parts with babbitt and the newly developed method of utilizing a hydrogen flame for this purpose. Chemical composition of babbitt metals having a tin base or lead base is analyzed, specifications for different types of babbitt metals are given, and the operation in which each type of babbitt is employed is indicated. The method of hydrogen babbitting of bearings or other metal parts is discussed

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in detail, its advantages and disadvantages pointed out, and the equipment used for this operation described. Major defects of babbitted parts, which may develop during their usage, are analyzed and the procedure of reconditioning these parts is outlined. Designs of various metal parts which can be babbitted by using the hydrogen flame method or some other methods are illustrated and possibilities of applying hydrogen babbitting in repair work or coating, to protect metal parts against corrosion and cavitation, are explored. Safety regulations enforced in Soviet plants for protection of personnel during the babbitting operation are enumerated and described. No personalities are mentioned. There are 6 Soviet references.

TABLE OF CONTENTS:

1. ZASLAVSKIY, I., KOLTUNOV, S., CHERNYSHEV, I.

2. USSR (600)

4. Pipe

7. Galvanized zinc plating of pipes. Eng. Mor. flot 13 No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KOLTUNOV, S.

DANILOV, V.; KOLTUNOV, S.; LIKHNITSKIY, G.

Experimental use of hydrogen metal build-up. Mor. flot 15 no.7:21-23 Jl '55. (MIRA 8:9)
(Odessa--Ship--Maintenance and repair) (Welding)

DANILOV, Vasiliy Matveyevich; KOLTUNOV, Semen Yakovlevich; LIKHNITSKIY, Georgiy Vital'yevich; VOLOSHENKO, F.P., dotsent, kand.tekhn.nauk, retsenzent; SOROKA, M.S., red.

[Practical guide on babbitt deposition by means of hydrogen welding] Prakticheskoe rukovodstvo po vodorodnoi naplavke babbita. Moskva, Gos.nauchno-tekhn.izd-vo mashinostr.lit-ry, 1959. 94 p. (MIRA 12:10)
(Gas welding and cutting) (Babbitt metal)

KOLTUNOV, V. F. Cand Agr Sci -- (diss) "Means of increasing the yield of plum seedlings in nurseries of the Kuban' area of Krasnodarskiy Kray." Krasnodar, 1959, 15 pp (Min of Agr USSR. Kuban' Agr Inst), 150 copies (KL, 50-59, 128)

USSR/Cultivated Plants - Fruits. Berries. M-6

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91804

Author : Koltunov, V.F.
Inst :
Title : The Advantage of Cultivated Apple Tree Stocks.

Orig Pub : Sadovodstvo, Vinogradarstvo i vinodeliye Moldavii, 1957, No 6, 52-53.

Abstract : The experiments made in 1951-1954 at the nursery of the fruit canning trust "Agronom" in Krasnodarskiy Kray showed that in grafting standard apple tree varieties on the seedlings of wild Caucasian apple trees many plantings (13-40%) are discarded because of blotch disease. In grafting the Borovin, Revel Grushevki, Kuban Anise and Cheliabi varieties on the seedlings the production of the standard two-year olds of some varieties of the apple trees was increased by 1.5 times. Only Borovin and Suyslepskiy varieties showed a better capacity to unite with

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USSR/Cultivated Plants - Fruits. Berries. M-6

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91804

the Caucasian apple tree. -- I.K. Fortunatov.

Card 2/2

KOLTUNOV V.F.
COUNTRY : USSR

KUTSENKO, G.G.; KOLTUNOV, V.F.

Selecting basic varieties of apples for Krasnodar Territory.
Kons. i ov. prom. 13 no.11:30-31 N '58. (MIRA 11:11)

1. Sovkhoz "Agronom" Krasnodarskogo kraya.
(Krasnodar Territory--Apples--Varieties)

L 26355-66 EWT(m)/T WW/JW/JWD

ACC NR: AP6013380 SOURCE CODE: UR/0195/66/007/002/0224/0229

AUTHOR: Koltunov, V. S.; Marchenko, V. I.

ORG: none

TITLE: Kinetics of oxidation of hydrazine by nitrous acid

SOURCE: Kinetika i kataliz, v. 7, no. 2, 1966, 224-229

TOPIC TAGS: hydrazine, nitrous acid, oxidation kinetics, reaction rate

ABSTRACT: The mechanism of the reaction between hydrazine and nitrous acid was studied kinetically in nitric and hydrochloric acid solutions in the 9-40°C range. Analysis of the reaction products led to the following stoichiometric equation of the reaction:

$$7N_2H_4 + 12HNO_2 + H^+ = NH_4^+ + 11N_3 + 5N_2 + 6N_2O + 18H_2O$$

In nitric acid, the overall reaction order is two; with respect to each of the reagents, it is one. The reaction rate is given by the equation

$$-\frac{d(HNO_2)}{dt} = k(HNO_2)(N_2H_4)[H^+],$$

the activation energy of the reaction being 8.6 kcal/mol. In hydrochloric acid, the

UDC: 547.234 : 542.943+541.127-14

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ACC NR: AP6013380

overall reaction order is two; with respect to nitrous acid, it is one. A possible mechanism of the oxidation of hydrazine by nitrous acid is represented as follows:

$$N_2H_5^+ + NO^+ \rightarrow N_2H_4 + HNO + 2H^+ \quad \text{slow}$$

$$2N_2H_4 \rightarrow H_2N{-}N{-}N{-}NH_2 \rightarrow N_2^+ + N_2H_4 \quad \text{fast}$$

$$2N_2H_4 \rightarrow HN{=}N{-}NH{-}NH_2 \rightarrow NH_3 + HN_3 \quad \text{fast}$$

$$2HNO \rightarrow N_2O + H_2O$$

Orig. art. has: 2 figures, 5 tables, 13 formulas.

SUB CODE: 07/ SUBM DATE: 19Oct64/ ORIG REF: 001/ OTH REF: 016

Card 2/2

KOLTUNOV, Yu.B.

Determination of water soluble and exchangeable sodium under field conditions using glass electrides with Na-function. Pochvovedenie no.7:110-111 Jl '64. (MIRA 17:8)

1. Moskovskiy gosudarstvennyy universitet.

ONISHCHENKO, N.A.; KOLTUNOV, Yu.B.; DOLIDZE, V.A.; RASTORGUYEV, B.P.; RAYSKINA, M.Ye.

Measuring and dynamic recording of the activity of Na ions in the myocardium in vivo with the help of selectiv. glass electrodes. Biofizika 10 no.4:645-651 '65. (MIRA 18:8)

1. Institut terapii AMN SSSR, Moskva.

VOROB'YEV, L.N.; KOLTUNOV, Yu.B.; KURELLA, G.A.; LI SU-YUN'

Average activity of potassium salts in the cell juice of Nitella mucronata in situ. Biofizika 10 no.3:533-534 '65.
(MIRA 18:11)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova. Submitted Aug. 31, 1964.

Koltunov V. S.

USSR/Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry. Catalysis, B-9

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 403

Author: Mirkin, I. A., and Koltunov, V. S.

Institution: None Ural State Univ im M. Gorkiy

Title: Kinetics of the Oxidation of Oxalic Acid and of Oxalates by Nitric Acid in Aqueous Solution

Original Periodical: Zh. fiz. khimii, 1955, Vol 29, No 12, 2163-2172

Abstract: The kinetics of the oxidation of $(COOH)_2$ (0.2-1 M) by nitric acid (0.1-12.7 M) in aqueous solutions at 97° proceed autocatalytically. The induction period due to the accumulation of HNO_2 depends on the HNO_3 concentration. The rate after the end of the induction period is governed by the equation $d[H_2C_2O_4]/dt = 0.0029[H_2C_2O_4] \times [HNO_3]/(0.7+[H]^2)$. The end products of the oxidation are CO_2 and NO (stoichiometric equation: $2HNO_3 + 3H_2C_2O_4 \rightarrow 6CO_2 + 2NO + 4H_2O$). The presence of NO_2, the concentration of which increases with increasing

Card 1/2

5(1)

AUTHORS: Timoshev, V. G., Rodionov, A. V., Koltunov, V. S., Chumakov, P. S. SOV/32-25-3-54/62

TITLE: Laboratory Extractor With Gas Lifter (Laboratornyy ekstraktor s gazoliftom)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol 25, Nr 3, pp 377-378 (USSR)

ABSTRACT: The described extractor with gas lifter is practically a set of individual parts in which each of the individual parts has roughly the effect of 0.95 of a theoretical plate. Thus, by changing the number of individual parts, the extractor may be adjusted to whatever efficiency is needed. In the present case a device composed of 48 sections, i.e. corresponding to 45 theoretical plates, was used. The sketch of an individual part of the extractor is given (Fig) by means of which the operation of the device is described. The extractor may be used for the extraction-separation of substances, and for various technical processes based on liquid extraction. There is 1 figure.

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AUTHORS: Koltunov, V.S., Nikol'skiy, V.A., Agureyev, Yu.P.

TITLE: The kinetics of oxidation of hydrazine with nitric acid in aqueous solution

PERIODICAL: Kinetika i kataliz, v.3, no.6, 1962, 877-881

TEXT: The oxidation of hydrazine was investigated to establish its stechiometry and kinetics. The rate of the reaction was measured by the decreasing concentration of hydrazine. Nitric acid was used in concentrations ranging from 2.2 to 8.2 mole/litre. Analysis of the oxidation products indicated that the reaction is

$$17N_2H_4 + 16HNO_3 = 4NH_4NO_3 + 4HN_3 + 4N_2O + 11N_2 + 32H_2O$$

Since log $[N_2H_4]$ decreases linearly with the time of oxidation, the reaction is of the first order. The reaction is however of the third order in respect of H^+ and NO_3^- ions and the experimental data are satisfactorily described by the equation

$$-\frac{d(N_2H_4)}{dt} = k_2[N_2H_4][HNO_3]^2\gamma_{\pm}^3$$

Card 1/2

KOLTUNOV, Ya. L.

Pamiatka derovoobdelochnika (obshchie pravila bezopasnoi raboty) Moskva, Goslestekhizdat, 1944. 10 p.

Instructions for woodworkers (general rules for accident prevention).

DLC: Unclass.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

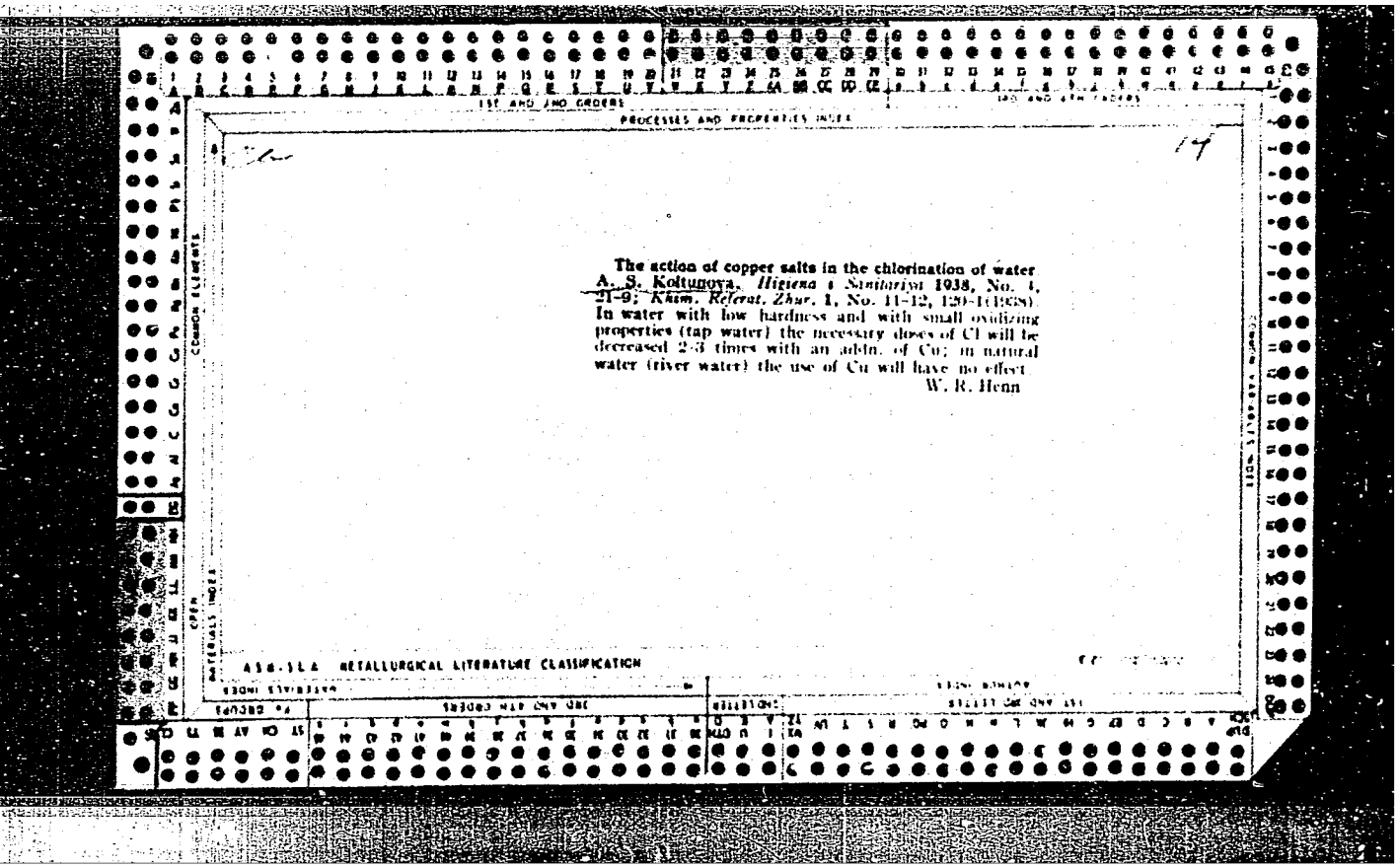
KOLTUNOV, YA. L.

Obshcie osnovy blagoustroistva derevoobrabatyvaiushchikh tsekhov. Moskva, Goslestekhizdat, 1944. 18 p. illus.

General planning and organization of woodworking establishments.

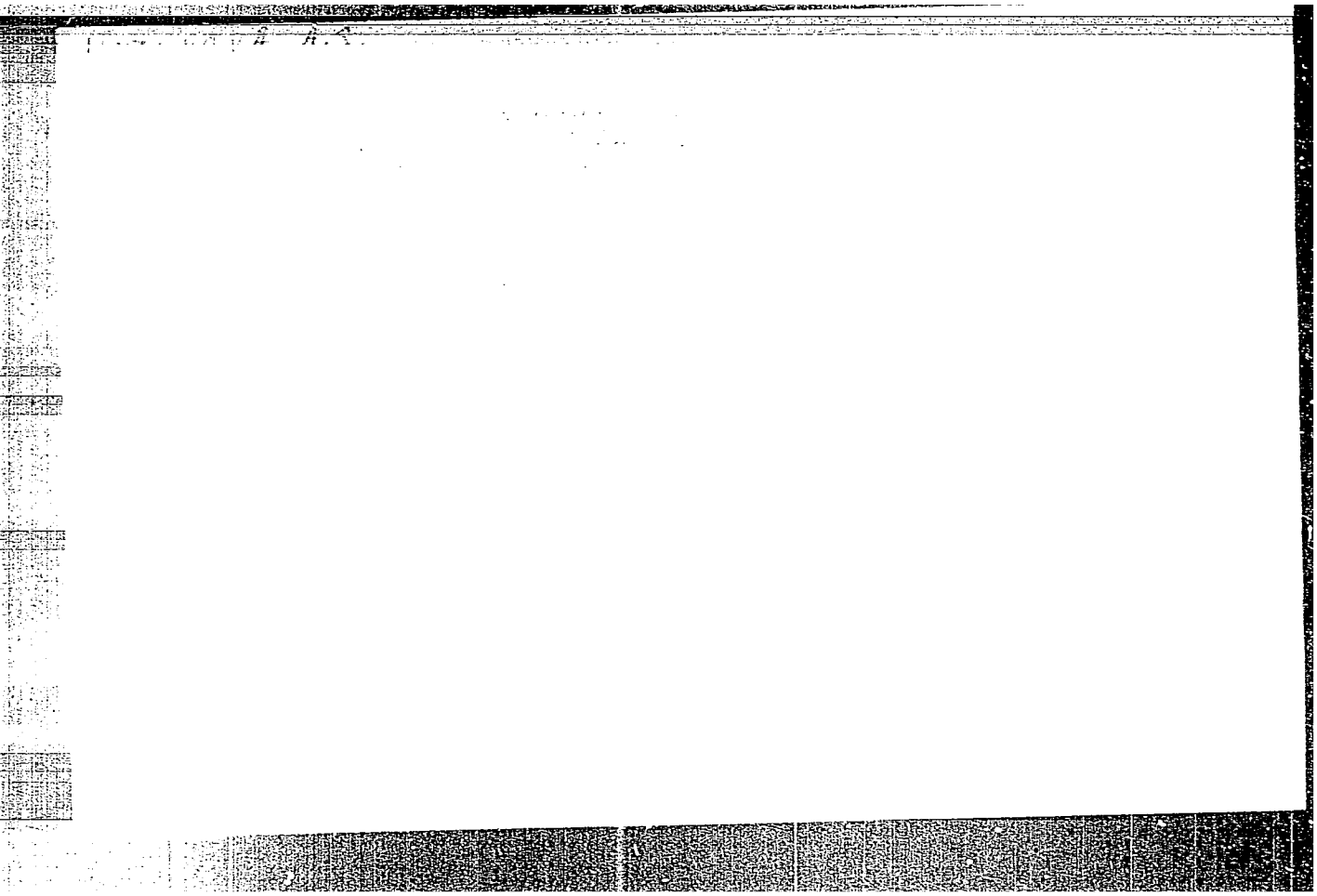
DLC: TS850.K6

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.



The action of copper salts in the chlorination of water. A. S. Koltunova. *Higiena i Sanitariya* 1938, No. 1, 21–9; *Khim. Referat. Zhur.* 1, No. 11–12, 129–1(1938). In water with low hardness and with small oxidizing properties (tap water) the necessary doses of Cl will be decreased 2-3 times with an addn. of Cu; in natural water (river water) the use of Cu will have no effect.

W. R. Henn



VERTEBNAYA, I.P.; IZ"YUROVA, A.I.; KOLTUNOVA, A.S.; LITVINOV, A.S.; RUFFEL', M.A.

Sanitary state of bodies of water in the Lenin Volga-Don Navigation Canal system during the first year of its filling. Gig.i san. no.3:9-17 Mr '54. (MLRA 7:2)

1. Iz Instituta obshchey i kommunal'noy gigiyeny Akademii meditsinskikh nauk SSSR.
(Volga-Don Canal--Sanitary affairs)

KOLTUNOVA, A.S.

VERTEBNAYA, P.I., starshiy nauchnyy sotrudnik; IZ"YUROVA, A.I., starshiy nauchnyy sotrudnik; KOLTUNOVA, A.S., starshiy nauchnyy sotrudnik; RUFFEL', M.A., starshiy nauchnyy sotrudnik; TIKHVINSKAYA, N.N., starshiy nauchnyy sotrudnik

Role of sanitary preparation of the TSimlyansk reservoir bed on the quality of water. Gig. i san. 22 no.1:72-76 Ja '57. (MLRA 10:2)

1. Iz Instituta obshchey i kommunal'noy gigiyeny AMN SSSR.
(WATER SUPPLY,
hyg. aspects of watershed (Rus))

KOLTUNOVA, A. S., ITSKOVA, A. I., RAPOPORT, K. A., SKVORTSOVA, N. N., DRACHEV, S. M., KONDROR, I. S., SOLTYSSKIY, YE. I.

"Hygienic Standardization of the Content of Mineral Salts in the Drinking Water."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

KOLTUNOVA, A.S. (Moskva)

Sanitary protection of water supply sources. Fel'd. i akush. 25 no.4:56-59 Ap '60. (MIRA 14:5)
(WATER-SUPPLY ENGINEERING--HYGIENIC ASPECTS)

DRACHEV, S.M., prof.; VERTEBNAYA, P.I.; IZ"YUROVA, A.I.; KABANOV, N.M.; KOLTUNOVA, A.S.; BYLINKINA, A.A.; IZMEROV, N.F., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

[Sanitation problems of the supply and utilization of water in arid districts]Gigienicheskie voprosy khoziaistvenno-pit'evogo vodosnabzheniia i vodopol'zovaniia v zasushlivykh raionakh. Moskva, Medgiz, 1961. 206 p. (MIRA 14:11)

(Water supply)

ROYKH, I.L.; KOLTUNOVA, L.N.; BELITSKAYA, S.G.; BOLOTICH, I.P.

Investigating the atmospheric corrosion of vacuum condensates of zinc by photographic, optical and weight methods. Fiz. met. i metalloved. 17 no.5:784-786 My '64. (MIRA 17:9)

1. Odesskiy tekhnologicheskiy institut imeni Lomonosova.

ROYKH, I.L.; KOLTUNOVA, L.N.; TOLKACHEV, V.Ye.; KIRICHENKO, V.P.

Atmospheric corrosion of vacuum Mg-Zn condensates of variable composition. Dokl. AN SSSR 159 no.2:413-415 N '64. (MIRA 17:12)

1. Odesskiy tekhnologicheskiy institut im. M.V. Lomonosova. Predstavleno akademikom S.A. Vekshinskim.

ROYKH, I.L.; BOLOTICH, I.P.; KOLTUNOVA, L.N.

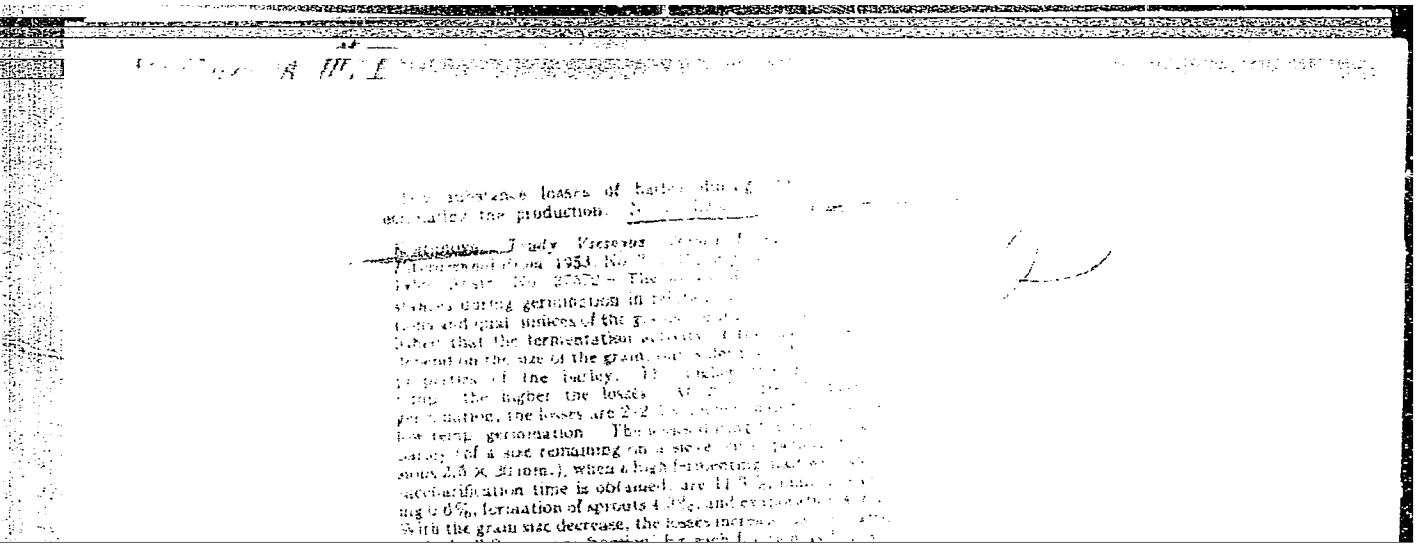
Determination of the activation energy of formation of hydrogen oxide and hydrogen peroxide in the atmospheric corrosion of Mg and Al. Zhur. fiz. khim. 36 no.9:2052-2054 S '62. (MIRA 17:6)

1. Odesskiy tekhnologicheskiy institut imeni Lomonosova.

ROYKH, I.L.; BOLOTICH, I.P.; ORDYNSKAYA, V.V.; BELITSKAYA, S.G.; KOLTUNOVA, L.N.

Decomposition of hydrogen peroxide vapors on the surface of metals and the role of H_2O_2 in atmospheric corrosion. Zhur. fiz. khim. 38 no.6:1588-1591 Je '64. (MIRA 18:3)

1. Odesskiy tekhnologicheskiy institut imeni Lomonosova.



Card 2/2

LEONOVICH, N.V.; KOLTUNOVA, M.I.

Biochemical characteristics of changes in beer caused by pasteurization. Trudy VNIIPP no.7:64-69 '59. (MIRA 13:5)

(Beer)

KOLTUNOVA, M.P.

LEMTAL', Genrikh Al'bertovich; TARASOV, Aleksandr Pavlovich; YURCHENKO, I.F., inzhener, redaktor; KOLTUNOVA, M.P., redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Wages of workers employed on railroad tracks and installations; a reference manual] Oplata truda rabotnikov sluzhby puti i sooruzhenii; spravochnik. Moskva, Gos. transp. zhel-dor. izd-vo, 1955. 139 p. (MIRA 9:3)
(Railroads--Salaries, pensions, etc.)

GAIKIN, Mikhail Aleksandrovich; NIKITIN, Viktor Alekseyevich; KOLTUNOVA, M.P., red.; BOBROVA, Ye.N., tekhn. red.

[Business accounting for locomotive repair plants; practices of the V.I. Lenin Locomotive Repair Plant in Rostov] Khoziaistvennyi raschet na parovozoremontnom zavode; iz opyta raboty Rostovskogo parovozoremontnogo zavoda im. V.I. Lenina. 1958. 101 p. (MIRA 11:7)

(Rostov-on-Don—Locomotives—Maintenance and repair)

ALEKSANDROV, Aleksandr Petrovich; LAZAREV, Dmitriy Filippovich; OBUKHOV, Vladimir Vladimirovich; KOLTUNOVA, M.P., red.; BOBROVA, Ye.N., tekhn.red.

[Collection of important laws concerning labor protection and safety engineering in transportation construction] Sbornik vazhneishikh materialov po okhrane truda i tekhnike bezopasnosti na transportnom stroitel'stve. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 1233 p. (MIRA 12:2)

1. Russia (1923- U.S.S.R.) Laws, statutes, etc. (Railroads--Safety measures) (Railroad law)

BABADZHANOVA, Vera Ivanovna; KAMINSKIY, Yuriy Konstantinovich; KLYSHNIKOV, Fedor Leont'yevich; LUTSENKO, Illarion Grigor'yevich; FILETSKIY, Valerian Aleksandrovich; SOLOVEYCHIK, Mikhail Zakharovich; KOLTUNOVA, M.P., red.

[Passenger's manual] Spravochnik passazhira. Moskva, Transport, 1965. 375 p. (MIRA 18:8)

ANGELEYKO, Viktor Ivanovich; NAUMOV, Georgiy Karpovich; TUCHKEVICH, Tat'yana Maksimovna; KOLTUNOVA, M.P., red.; BOBROVA, Ye.N., tekhn.red.

[Labor planning and organization in track maintenance] Organizatsiia i planirovanie truda v putevom khoziaistve. Moskva, Gos.transp.zhel-dor.izd-vo, 1959. 147 p. (MIRA 13:1)
(Railroads--Track)

BEREZIN, Boris Pavlovich; KOLTUNOVA, M.P., red.; BOBROVA, Ye.N., tekhn.red.

[Economics and organization of repair shops for track maintenance and construction equipment] Ekonomika i organizatsiia remontnykh predpriiatii putevogo khoziaistva i stroitel'stva. Moskva, Gos.transp.shel-dor.izd-vo, 1959. 241 p. (MIRA 13:11)

(Railroads--Repair shops)

LIN'KOV, Mikhail Vasil'yevich; KOLTUNOVA, M.P., red.; BOBROVA, Ye.N., tekhn.red.

[Labor planning in a railway district] Planirovanie truda na otdelenii zheleznoi dorogi. Moskva, Vses.izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1960. 74 p.
(MIRA 14:1)

(Railroads--Production standards)

BROK, Aleksandr Arturovich; ZAUSAYLOV, Boris Alekseyevich; STEPANOV, Nikolay Grigor'yevich; KOLTUNOVA, M.P., red.; BOBROVA, Ye.N., tekhn.red.

[Fundamentals of safety engineering and fire prevention measures in railroad transportation] Osnovy tekhniki bezopasnosti i protivopozharnoi tekhniki na zheleznodorozhnom transporte. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 234 p. (MIRA 14:4)

(Railroads--Safety measures)
(Railroads--Fires and fire prevention)

BABELYAN, Valentin Beniaminovich; KOLTUNOVA, M.P., red.; BOBROVA, Ye.N., tekhn.red.

[Economic analysis of the work of railroad construction organizations] Ekonomicheskii analiz deiatel'nosti zheleznodorozhnoi stroitel'noi organizatsii. Izd.3., perer. i dop. Moskva, Vses. izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 237 p. (MIRA 13:11)

(Railroads)

DEMICHEV, Georgiy Maksimovich, kand.tekhn.nauk; KOLTUHOVA, M.P., red.; KHITROV, P.A., tekhn.red.

[Warehouses and the mechanization of warehouse work] Material'nye sklady i mekhanizatsiia skladskikh rabot. Izd.2., dop. i perer. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 303 p. (MIRA 13:11)
(Railroads--Freight) (Warehouses)