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SOV/98-59-8-5/33 15(6)AUTHOR: Shtayerman, Yu.Ya., Professor, Doctor of Technical Sciences TITLE: The Vibroactivization of Cement and Vibrotreatment of Concrete PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 8, pp 18-23 (USSR) ABSTRACT: This process is based on research carried out in 1932 by the TNISGEI (Tiflis Scientific Research Institute of Construction and Hydraulic Power) and published by the TSNIIPS (Central Scientific Research Institute of Industrial Construction), describing the use of fine sand taken from the Khapry quarry for the Te-. م د بي ا mernikstroy. Research conducted by Engineer V.S. Eristov on Eolian sand from the Karakum desert and the results of work by G.A. Prokhorova enabled the problem of the use of fine sand in the manufacture of concrete to be solved. The author stresses the need for the correct amount of water in the process, which speeds up the absorption and dispersion of cement clinker, and the findings of tests conducted by Academician P.A. Rebinder and Doctor of Technical Sciences N.V. Mikhaylov concerning the initial specific sur-Card 1/4face and durability of vibrotreated cement (Fig.1) are briefly

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described. Table 1 shows the results of tests on various types of fine sand, and a short account is given in the text, it being proved that the frequency of the vibroactivization should be in indirect proportion to the size of the sand. Table 2 illustrates various methods of calculating the frequency as applied to these different sands: Column 4 gives the frequency as calculated by L'Hermite, expressed as

 $D = \frac{14 \cdot 10^6}{n^2}$, where n is the frequency of

vibrations per minute, and D is the maximum size of the additives in cms. Column 5 contains a simpler formula - $N = \frac{50}{d}$, where N is

the frequency of the vibration in hertz, and d is the average size of the sand in mm, calculated according to A.I. Yashvili's formula

 $(d = \frac{11.25}{a_{11} + a_{10} + a_{9} + a_{8}}, \text{ where } a_{11}, a_{10}, a_{9} \text{ and } a_{8} \text{ represent}$

sand of the following sizes respectively: .05-.15mm, .15-.30mm,

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.30-.60mm, and .60-1.2mm). G.Ya. Kunnos recommends the formula $K = \sqrt{\frac{s}{t}}$, where s is the rigidity of the block in kg.cm⁻¹, and t is the mass of the frequency of the given size in kgs per sec² cm⁻¹. The author reduces these formulae for the frequency to: 1) $f = \frac{A_1}{D_1^{1/2}}$ (L'Hermite formula); 2) $f = \frac{A_2}{D_2}$ (author's recommendation); 3) mf = $\frac{A_3}{D}$ (Kunnos' formula), where A_1 , A_2 , and A_3 are the coefficients, D_1 is the size of the grain of the upper gage of the fraction, D_2 is the average size of the grain of the fraction and D_3 is the size of the proposed grain. The need for this process stems from the demand for thin concrete units in industry and, basing his recommendations on research conducted by N.V. Mikhaylov, the author offers the following proposals for the manufacture of such concrete; 1) The pulverization of the sand should be carried out independently of the vibroactivization of the cement;

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2) the frequency should be lowered after the addition of the thickening dust; 3) concrete should be made in a vibromixer, the frequency of vibration depending on the average size of the sand; 4) components should be manufactured on vibrating equipment operating on the same frequency as the vibromixer. A test carried out by the TNISGEI to prove the suitability of this process for the manufacture of erosion-resistant sheet concrete for hydroelectric work is then briefly described and illustrated in fig.2, while table 3 contains data of experiments on various solutions to test their erosive properties. Table 4 gives the findings of vibration tests carried out on a 1:2 solution of Portland cement and cobulet sand. Fig.4 is a diagram of the vibroactivization shop at the Gruzgidroenergostroy ferro-concrete works. There are 4 tables, 2 diagrams, 1 graph, 1 photograph, and 11 references, 10 of which are Soviet and 1 French.

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8(6), 14(6)	S0V /98-59-10-2/20
AUTHORS :	Shtayerman, Yu. Ya., Doctor of Technical Sciences, Professor, Zodelava, G.L., Candidate of Technical Sciences, and Gavrish, Yu. Ye., Engineer
TITLE:	Wear-Resistant Vibroconcrete Sheeting in the Construction of the Tsageri Dam (Head Installation) of the Ladzhanuri GES
PERIODICAL:	Gidrotekhnicheskoye stroitel'stvc, 1959, Nr 10, pp 36-40 (USSR)
ABSTRACT: Card 1/4	Research carried out by the TNISGEI (Tiflis Scientific Research Institute of Construction and Power Engineering) showed the possi- bility of replacing stone sheeting used in hrdroelectric construc- tion work by concrete, which should be vibrotreated and contain a minimum amount of binding agent in addition to a filler which is resistant to water erosion. This method was tested in the con- struction of the Tsageri dam under the observation of TNISGEI spe- cialists. This dam, situated near the village of Orbeli, is part of a scheme linking the Tskhenis-Tskhali and Ladzhanuri rivers by means of a tunnel. The damping-well illustrated in fig.1, consist- ing of a 46 x 70 m sheet and a ridge 2 m high and 3.4 m broad, was

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to be covered with a layer of granite; the part near the ridge, however, was divided into sections (Fig.2) and covered instead with a layer of vibroconcrete, as shown in detail in fig.3. The concrete was made up of Sebryakovsky (plasticized, low-temperature) Portland coment, on which 4 tests were carried out by the TsNIPS-2 (Central Scientific Research Institute of Industrial Construction-2) method; the data obtained from these tests is given in the text, and an average activity of 500 kgs/cm² was arrived at. The sand was taken from the Black Sea, from the Kelasuri quarry near Sukhumi; the graph of the screening of the sand is shown in fig.4 and the results of a minerological analysis carried out by the Gruzinskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo instituta mineral'nogo syr'ya (Georgian Department of the All-Union Scientific Research Institute of Mineral Raw Materials) are given in the text in detail, showing the high quality of the sand (80% quartz). Crushed gravel from the bed of the Tskhenis-Tskhali river was used as the filler, about 60% of it being chippings, and

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> the main specifications are given. Water was added to the cement in the proportion of 22%, and the mixture was subjected to vibroprocessing by means of Type I-86 vibrators. The quantities of components used were: cement 325 kgs, water 133 kgs, sand 725 kgs, and filler 1,290 kgs, while the volumetric weight of the freshly made concrete was $2.45-2.50 \text{ ton/m}^3$; settlement, tested by means of an Abrahams cone, amounted to 0-1 cm. Contraction tests were carried out in the central concrete laboratory of the Ladzhanurgesstroy (Ladzhanuri GES Constr.Project) on 20 x 20 x 20 cm test-pieces; average resistance to contraction was 550 kgs/cm² over a 28day period. Figs.5 and 6 illustrate the equipment used for the manufacture of the vibroprocessed concrete, consisting of 750 liter mixer, two I-86 high-frequency vibrators (duration of process 5-6 mins), and a 300 mm pipe down which the processed mixture was poured into a concrete mixer, where the filler and sand were added: the concrete was mixed for 4-5 minutes and then transported by dump truck. The concreting of the blocks in fig.2 was carried

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out in the order 2,6,3,1,5,4,7 in 3 shifts and the surface was then covered with a 5 cm thick layer of water. Flooding of the apron took place 10 days later in order to discharge the floodflow. The author concludes with the proposal that this system replace the present one as being faster, cheaper and simpler, and suggests that GOST 4799-57 on "Concrete in Hydraulics" be revised to include "Wear-Resistant Concrete in Hydraulics." There are 4 diagrams, 1 graph, 1 table, and 1 photograph.

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ABASHIDZE, Andrey Ivanovich; BERENSHTEYN, Semen Abramovich; SAPOZHIIKOV, Fedor Vasil'yevich; SHTAYERMAN, Yu.Ya., prof., red.; LARIONOV, G.Ye., tekhn. red.

[Foundations for steam turbines (turbogenerators)] Fundamenty parovykh turbin (turbogeneratorov). Moskva, Gos-energoizdat, 1963. 334 p. (MIRA 17:3)

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SYL

SHTAYERMAN, Yu.Yu.; KHVOLES, A.R.; CHIKOVANI, T.D.

Limiting state of equilibrium of a concrete mixture. Soob. AN Gruz. SSR 39 no.3:639-646 S'465. (MIRA 18:10)

1. Tbilisskiy institut gidroenergetiki i sooruzheniy ireni Vintera. Submitted February 1, 1965.

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SHTAYNGART, Leo [Stajnhart, Leo], dektor meditsiny; DITS, bogumil [Dite, Bohumil], doktor meditsiny; PETRLE, Mircelav, doktor meditsiny; PROKHAZKA, Yaroslav [Prochazka, Jaroslav], prof., doktor meditsiny; BELOBRADEK, Zdenek, doktor meditsiny; TOMANEK, Yuriy [Tomanek, Jiri], doktor meditsiny

> Significance of angiccardiography in the diagnosis of congenital heart defects with left-to-right shunt, Khirurgila no.10:56-63 164. (MIRA 18:8)

l. Kardiologicheskiy tsentr klinicheskoy bol'nitsy v Gradtse
Kralove i rentgenologicheskoye otdeleniye garnizonnoy bol'nitsy,
Yaromerzh.

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SOV/137-57-6-11125 Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 248 (USSR)

Radchik, A.S., Nikiforov, I.P., Shtayger, Ye.V. AUTHORS:

- TITLE: Recording Wear, Moment of Friction, and Temperature in the Process of Wearing With the Aid of Wire Resistance Strain Gages (Registratsiya iznosa, momenta treniya i temperatury v protsesse iznashivaniya pri pomoshchi provolochnykh datchikov soprotivleniya)
- PERIODICAL: V sb.: Povysheniye iznosostoykosti i sroka sluzhby mashin. Kiyev-Moscow, Mashgiz, 1956, p 182
- A method was developed for the simultaneous recording of the ABSTRACT: wear and of the coefficient of friction without stopping the testing machine. The tests were conducted on an upright type machine. The wear was determined with the aid of wire resistance strain gages (WRG) pasted on a small bar which receives the bending force from the specimen (which varies in relation to the wear of the specimen); the coefficient of friction was determined with the aid of WRG pasted on the small bar receiving a force from a drum with a crossbar which is entrained by the forces of friction; the temperature at the contact Card 1/1

surface was determined by the thermoelectric method.

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G.B.



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s/119/60/000/012/010/015 B012/B063

AUTHORS:

Radchik, A. S. and Shtayger, Ye. V.

TITLE: Dynamometric Pickups With Systems of Helical Resistance Pickups

PERIODICAL: Priborostroyeniye, 1960, No. 12, pp. 22-24

TEXT: Fig. 1 shows a resistance pickup for which a partially hollow cylinder with two flanges is used as an elastic element. Wire resistors are wound round the cylinder. The hollow parts of the elastic element undergo 80% of the total deformation, while only 20% goes to its central part. Therefore, the active windings 1 and 2 and the compensating windings 3 and 4 are arranged in the way shown in the figure. However, these elements have a disadvantage: Friction occurs on the front. To eliminate this disadvantage, a pickup consisting of two special cup springs has been designed. It is shown that the parameters of the spring may be determined from the formula given in the paper (Ref., footnote on p.23) for the spring tension and from the formula given here for the thickness, s, of the disk if the load and the sag, f, are assumed. Tests of the pickup at NIKIMP have

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Dynamometric Pickups With Systems of Helical $\frac{5}{102/8063}$ shown that the signal power can be increased by four times when using cup springs instead of the usual elements with strain gauges. There are 4 figures, 1 table, and 1 Soviet reference. Text to Fig. 1: System of Helical Resistance Pickups. Text to Fig. 3: Pickup Consisting of Two Rigid Cup Springs, and the Characteristic cf Stress Distribution According to the Thickness of the Leading Edge of the Spring. if (f, 3) = f(f, 3) =

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OLEYNIK, N.V., SHTAYGER, Ye.V.

Determining the weight of fatigue testing machinery. Zav.lab. 26 no.5:609-610 '60. (MERA 13:7)

1. Odesskiy politekhnicheskiy institut. (Fatigue-testing machines)

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SHTAYGER, Ye.V. Nonlinearity in the performance of strain-measuring scale pickups. Izm.tekh. no.ll:19-20 N '62. (MIRA 15:11) (Strain gauges)

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CIA-RDP86-00513R001550010015-3

S/119/63/000/003/006/010 D201/D308 Dymkovskiy, V.P., Radchik, A.S. and Shtavger, Ye.V. AUTHORS : A dynamometric pick-up TITLE: Priborostroyeniye, no. 5, 1963, 17-18 PERIODICAL: A brief description of the mechanical construction TEXT: of a linear resistive pressure transducer developed at the department of elements of machines of the Odesskiy politekhnicheskiy in-stitut (Odessa Polytechnic Institute). The flexible element of the pick-up has a max. loading of 15 t, it is made of steel 70C3A (70SZA). The transducer converts the flexural deformation of the discordal part of the transducer into the radial deformation of two rings bonded rigidly to the body of the flexible element. Tensometric wire, covered with a layer of glue, is bonded to the cylindri cal surface of each ring. The effects of certain factors in design on the transducer performance are tabulated. The pick-up is stated to be 3 times as sensitive as that with a loop and 9 times more sensitive than one with a spiral wire transducer. There are 2 figures and 1 table. Card 1/1

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SHTAYGER, YO.V.; KRIVTSOVA, E.N.

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High-precision strain-measuring stand based on the PMS-48 potentiometer. Izm. tekh. no.1:23-24 Ja '64. (MIRA 17:11)

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S/191/60/000/009/003/010 B013/B055

AUTHORS: Iskra, Ye. V., Shtaykhman, G. A., Li, P. Z., Mikhaylova, Z.V., Sedov, L. N., Al'shits, T. M., Kats, L. F., Papysheva, Ye.V., Eksanov, V. A.

TITLE: Glass Fiber Laminates. 12. Dyeing of Polyester Glassreinforced Plastics

PERIODICAL: Plasticheskiye massy, 1960, No. 9, pp. 11 - 15

TEXT: The present work deals with the dyeing of glass-reinforced polyester plastics and the dyes used for this purpose. The investigation showed that polyester resins may be colored satisfactorily with azo-, anthraquinone-, and triphenyl-methane dyes, phthalocyanine pigments, and others. The results obtained with several vat dyes and direct dyes were unsatisfactory. Inorganic pigments and dyes gave less brilliant hues than organic colorants. The results of the investigation showed that most dyes retard the gelling process. This retardation, however, is comparatively insignificant so that the properties of the hardened resin are hardly affected. To obtain well-colored products, the resin is generally applied

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Glass Fiber Laminates. 12. Dyeing of Polyester Glass-reinforced Plastics

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in two thin layers, a coat thickness of 0.4 - 0.7 mm being adviseble. In practical use, structural glass-reinforced plastics are often exposed to sunlight. This necessitates the use of specially light-fast dyes. The color stability of samples was tested both in the laboratory under a ffk-4 (PRK-4) quartz lamp and in open air, on roofs in Leningrad and Moscow. The following facts were established: 1) Polyester resins turn yellowish under sunlight. This is particularly noticeable with the lighter shades. 2) Inorganic pigments are the most light-fast. Direct introduction of the dye or pigment is the most expedient way of dyeing, but cannot be repeated. It is often the case, however, that the color of some structural part dyed in this manner must be renewed owing to damage or fading. This can only be done by applying enamel or oil paint. Some recipes for decorative units are given. According to destination, structural glass-reinforced plastics may be exposed to salt water, petroleum products, mineral oils, alkaline, and acid media. The coloring of plastics was stable for 4500 h in sea water, 3 h in boiling water, 3000 h in mineral oil, 24 h in 10% $\rm H_2SO_A$, and 24 h in 2% NaOH. There are 5 tables and 5 non-Soviet references.

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S/129/61/000/001/006/013 B073/E135

Changes in the Metal Surface Layer Under the Influence of Electro-spark Machining

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the circuit could be varied between 0.5 and 150 µf). Eutectoidal carbon steels, low alloy (manganese and silicon)'steels, cermets and chemically pure aluminium were machined. Electrolytic copper, graphite, aluminium, tin and nickel were used as electrodes. The changes in the chemical composition were investigated by means of a Q-24 spectrograph with an average degree of dispersion. As an excitation source an FF-20 generator was used with a secondary voltage of 12 000 V, a capacitance of 5000 µf and the inductance switched off. Photometering was by means of a Zeiss photometer. All investigations were carried out in two series. The first included study of the changes in the chemical composition of the metal surface. Preliminary results showed that the shape of the machined surfaces had no influence on the obtained results. Therefore, subsequent investigations were carried out on strips with various parameters of the current. The electro-spark slotting was carried out in all the experiments in kerosene with a current of 1 A, 80 V, whereby the capacitance and the machining time were Card 2/6

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variables. For slotting steel strips with a copper or a carbon. electrode the capacitances were 4, 12 and 150 µf respectively, and the machining times were 5, 10 and 15 min respectively; in slotting cermets (with a carbon electrode) the capacitances were respectively 2, 12, 56 and 150 µf and the machining time 10 min. In addition, steel strips were machined in denatured alcohol; the machining time was 5 min in each case, using various electrodes (copper, aluminium, graphite, tin, nickel) and various capacitances (1, 4, 12, 56 and 150 µf). Aluminium strips were also machined under similar conditions, using graphite and copper electrodes. The changes in the contents of aluminium, nickel and tin at the surface of the steel plates are presented in the graph Fig.l as functions of the circuit capacitance; Fig.la characterizes the diffusion of the metal established by spectrum analysis for 15 sec exposure without previous arcing; Fig.1b was also obtained for a 15 sec exposure, after preliminary arcing for 15 sec. The latter represents to a certain extent the thickness of the layer of the given metal and the strength of its bond to the surface of the base metal. Card 3/6

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Changes in the Metal Surface Layer Under the Influence of Electro-spark Machining

and varying the capacitance between 2 and 84 µf. It was found that the thickness of the white layer increased with increasing capacitance between 2 and 50 µf; for 84 µf the layer became thinner again. The respective thicknesses of the white layer for these capacitance: were: average thickness 0,092, 0.0575 and 0,032 mm respectively. maximum thicknesses 0.024, 0.101 and 0.085 mm. In a further error of tests the influence of the initial structure was studied. The structural changes were more pronounced in hardened specimens than in annealed speciment. The hardness of the white loyer in the case of hardened specimens was 644-810 ke/mm² In the case of the annealed specimers no appreciable changes of the microhardness were observed. The following conclusion are arrived at: 1) Electro erosion slotting produces diffusion of the electrode material into the machined material and vice versa. In addition, the metal which is finely suspended in the liquid diffuses into the metal being muchined, 2) Within certain limits the quantity of metal which diffuses from the electrode into the machined surface is proportional to the Card 5/h

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ne e na statu 2011 teles 88368 S/129/61/000/001/006/013 E073/E135 Changes in the Metal Surface Layer Under the Influence of Electro-spark Machining capacitance of the electro-erosion circuit. 3) The depth of the white layer depends on the applied capacitance; generally, with increasing capacitance the thickness of this layer increases. 4) The initial structure of the steel has a major influence on the structure formed in the neighbourhood of the machined spot. The white strip will form regardless of the nature of the initial structure but its microhardness will differ. A structure with an increased hardness and a tempered layer were clearly observed in the hardened specimens. For the other initial structures these layers were not clearly observed, particularly in cases of lower current intensities, There are 5 figures, 2 tables and 12 references: 6 Soviet, 5 Polish and 1 English. . . . ASSOCIATION: Tsentral'naya issledovatel'skaya laboratoriya Zabzhe, Pol'sha (Central Research Laboratory, Zatrze Poland) Card 6/6

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KISLYY, P.S.; KUZENKOVA, M.A.; SHTAYNLYAUF, G.I.; SOLOVYKH, M.A.
Thermocouple tips for continuous temperature control in copper smelting furnaces. Ogneuvory 30 no.9:36-39 '65. (MIRA 18:9)
1. Institut problem materialovedeniya AN UkrSSR (for Kislyy, Kuzenkova). 2. Balkhashskiy gornometallurgicheskiy kombinat (for Shtaynlyauf, Solovykh).

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STANOVOVA, T.I.; POKROVSKIY, V.I.; TSEYDLER, S.A.; SHTAYNSHNAYDER, E.Ye., professor, direktor kliniki; ZALESKVER, N.G., glavnyy vrach.

Dehelminthization by means of oxygen in the clinical treatment of infections diseases. Med.paras.i paras.bol. no.3:260-262 My-Je '53.

(MLRA 6:8)

1. Klinika infektsionnykh bolezney I Moskovskogo ordena Lenina meditsinskogo instituta (for Shtaynshnayder). 2. Krasnosovetskaya bol'nitsa (for (Worms, Intestinal and parasitic) (Oxygen -- Therapeutic use) Zaleskver).

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SHTEDING, A. E., Cand Tech Sci -- (diss) "Ways of improving the systems of preparation of adjacent **Sime** sloping seams of the Vorkuta Coal deposit." Len, 1957. 21 pp (Min of Higher Education USSR, Len Orders of Lenin and Labor Red Banner Mining Inst im G. V. Plekhanov, Pechora Affiliate of All-Union Sci Res Coal Inst), 100 copies (KL, 2-58, 114)

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1. 1919년 1918년 - 1918년

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IVANOV, N.I.; SHTEDING, A.E.; Prinimali uchastiye: ZYKOV, V.M., inzh.; HEREZNITSKIY, I.I., inzh.; NORENKO, N.A., inzh.; SOCHINSKIY, V.P., otv. red.; NURMIUKHOMEDOVA, V.F., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.

> [Reorganization of coal mines] Rekonstruktsiia ugol'nykh shakht. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Pt.l. [Practices of foreign countries in the reorganization of coal mines] Zarubezhnyi opyt rekonstruktsii shakht. 1961. 222 p. (MIRA 15:1)

> > (Coal mines and mining)

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SHTEDING, A.E., kand.tekhn.nauk; IVANOV, N.I., kand.tekhn.nauk

. J.

Methodology for determining the level of mechanization and automatic control of labor and the use of nonmechanized labor in coal mines. Sbor. DonUGI no.28:30-50 '62. (MIRA 16:8) (Coal mines and mining-Labor productivity)

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SHTEDING, M. N.

Preparation of lacquers with benzylcellulose. M. N. Shteding, Org. Chem. Trd. (U. S. S. R.) 5, 520-33 (1938).--A discussion based on literature and some exptievidence. Fifteen references. Chas. Blanc

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SHUNDING. M.N., FOROTMENT, SM, FARFOV, V.I., MOROVA, I.M.,

"Selection of Plastic Polymer Materials for Use in Equipment for Personal Protection". p. 24

en de la companya de

Trudy Vsesoyuznoy Konterentsii po Meditsinekoy FedioLogii (Voprosy ligiveny i Dozimetrii) Meagiz, 1977, Mowcow Russian, ok.

Proceedings of the All-Union Conference on Medical Radiology (Hygienic and D simetric Problems)

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37439 \$/190/62/004/005/015/026 B110/B108

15.8050 Shteding, M. N., Kargin, V. A. AUTHORS :

TITLE:

Thermomeranical study of the inhibitory properties of stabilizers. I. Method. Investigation of the efficiency of stabilizers in the light aging of polyvinyl chloride

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 5, 1962, 720-727 TEXT: The first thermomechanical investigation into the efficiency of inhibitor stabilizers was carried out by V. A. Kargin et al. (Zh. fiz. knimii, 23, 532, 1949; ibid., 23, 563, 1949). In their method, the temperature dependences of deformation are determined at constant load and period of action (Fig. 1). In this way, curves were plotted for the deformation of irradiated PVC. After 1 hr of irradiation, the steadiness of the curves is disturbed as a result of destruction and trend to bond formation. After 2 hrs, cross linkage takes place, marked polydispersity can be observed, and the flow capacity is partly lost between 160 and 180°C. After 24 hrs, cross linkage and cease of flow are complete. Destructive processes predominate in the absence of oxygen: After 1 hr of

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Thermomechanical study of the ...

irradiation, the mean molecular weight drops sharply, and the range of flow is shifted to lower temperatures by nearly 40°C. After 24 hrs, flow is conserved since the small amount of bonds is compensated by the destruction. The inhibiting properties of stabilizers cause retardation or acceleration of cross linking, thereby changing the course of the strain curves and the range of flow. Amorphous polyvinyl chloride of the type $\pi \Phi - 4$ (PF-4), which tends to structuralization, was irradiated for 2 hrs. while the following stabilizers were added: (1) acceptor stabilizers without inhibiting properties; (2) inhibitor stabilizers; and (3) inhibitors of the diaryl methane series. (1) Melamine and lead silicate: When used as an HCl acceptor, melamine displayed no inhibiting properties. Addition of 10 % of lead silicate to melamine gave less bonds than in the case of pure PVC, and conserved flow since it is a good HCl acceptor and exerts an inhibitory effect. Addition of 10 % of phenyl-B-naphthyl amine retarded cross linkage and deteriorated the flow properties. Good inhibitors produce such effects even when added in very small quantities (e.g., 0.1 % of dye, 118, 2 % of Sudan III). Addition of less than 10 % of phenanthrene and dinaphthyl méthane lowered the vitrification temperature and the range of flow. These compounds inhibit cross linkage and conserve Card 2/4

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CIA-RDP86-00513R001550010015-3"

SHTEDING, M.N.; KARPOV, V.L.
Initibiliting properties of stabilizers studied by the
thermomechanical method. Part 2: Organotin compounds
as stabilizers of polyvinyl chloride under the effect of
high temperatures and gamma rays. Vysokom. soed. 4 no.12:1806-1811
D '62. (MIRA 15:12)
1. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut
imponi Karpova.
 (Tin organic compounds)
 (Vinyl compound polymers) (Inhibition (Chemistry))

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ACCESSION NR: AT4016	991 s/ 3057/	/63/000/000/0025/0034				•
AUTHOR: Gorodinskiy, Rodionov, I.S.; Shted	S.H.; Karpov, V.L.; Nosov ing, M.N.	va, L.M.; Panfilova, Z.	Ye.;			
TITLE: The developme shielding against rad	nt of a masticated rubber loactive substances	on a polyvinylchloride	base for	0		· .
SOURCE: Zashchitny*y eering); sbornik stat	e pokry*tiya∨ atomnoy taki ey. Hoscow, Gosatomizdat,	nnike (Shielding in nuc , 1963, 25-34	lear engin	1-	•	
activity, polyvinylch	engineering, masticated ru loride polymer, radioactiv activity, 57-40 rubber	ubber, nuclear shieldin ge shielding, radioacti	g, radio- ve con-		•	
ABSTRACT: It is poir	ted out that, of the indu	strial polymers produce	d at the	1		
present time, polyvir anical and technologi shielding in nuclear	nylchloride is, in terms cal properties, the best a engineering. The authors wichloride resin bases in	of its inexpensiveness material to serve as a tested many masticated terms of their sorptic	and mech- base for l rubber on-desorp-	•	·.	•
present time, polyvir anical and technologi shielding in nuclear materials on polyviny tion characteristic a cassing conditions an	nylchloride is, in terms (cal properties, the best) engineering. The authors	of its inexpensiveness material to serve as a tested many masticated terms of their sorptic of polyvinylchloride re	and mech- base for l rubber on-desorp- sin, pro-	•		
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ACCESSION NR:	AT4016991				
different: condit in radiochemical and possessed of produced in thic covering of floc utilized as a wa brown, grange, b	nd 80 masticated tions and is prai l aboratories ar extremely high thesses of 2 and ors and, produced ill covering. The	its elongation are discus of the material. The auti rubber has successfully of sently being widely used a ned at atomic power central resistance to wear, this s d 3 mm, is particularly su in thicknesses of 0.3, 0 he masticated rubber is av "L.I. Kuz'mina and L.G. D bical Works) took part in	indergone tests indergone tests is a shielding m s. Easily deac hielding materi ited to continu .5 and 0.7 mm, ailable in colo	that under atorial tivated al, ous may be re of	
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ACCESSION NR: AT4016992	s/3057/63/000/00	0/0035/0044	
AUTHOR: Shteding, M.N.	· •	•	
TITLE: The radiation resistance of on a polyvinylchloride base	of polyvinylchloride an	d of polymeric mate	e rials
SOURCE: Zashchitny*ye pokry*tiya engineering); sbornik statey. Mos	v atomnoy tekhnike (Sh scow, Gosatomizdat, 196	ielding in nuclear 3, 35-44	9
TOPIC TAGS: nuclear engineering, polyvinylchloride, polyvinylchlori radioactivity, gamma radiation	radiation resistance, ide polymer, aging, hig	polymer atructure, h energy radiation	
ABSTRACT: Irreversible structural ence of any external stimuli. The tional properties of materials and polymers, are referred to by the g the authors limit themselves to or and one type of external stimulant authors point out that the expanded	ese changes in the phys d objects, manufactured generic term "aging". ne type of polymer - po t - high-intensity radi	ical-chemical and on the basis of the In the present art: lyvinylchloride (P oactive radiation.	opera- hese icle, VC) - The
chas, in recent times, required the	e modification of certa	in of its propertie	es and,
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primarily, its radiation resistance. Several results are analyzed which indicate the practical possibility of developing a new type of polymer material with increased radiation resistance. Special attention is directed, in this connection, to three fundamental problems: 1) the character of the changes which take place in PVC under the effect of high-energy radiation; 2) methods of studying the radiation resistance of polymers and polymeric materials; 3) the feasibility of increasing the radiation resistance and enhancing the operational properties of polymer materials on a PVC base. The factors effecting the change of the physico-chemical characteristics of PVC in the presence of air oxygen and radioactive radiation are analyzed and it is shown that the mechanism for the protection of the polymer in a radiation environment is extremely complex, since the admixtures introduced may perform different functions: 1) inhibit the development of structurization; 2) exert a shielding effect; 3) expend predominantly on itself the energy of the incident radiation; 4) transmit the absorbed energy to molecules containing double conjugate bonds, as a result of. which energy is distributed (protection of the "sacrifice" type). The effect of polymer aging and the efficiency of the protective effect of stabilizers is studied by means of three methods: 1) transition of the polymers to the soluble state and the determination of the viscosity, molecular weight, sol-Card

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ACCESSION NR: AT4016992	
ubility, etc; 2) determination of the induction period in the gas liber process; 3) comparative estimate of the initial and terminal indices (a ermined on a dynamometer) of the tensile strength and elongation of fil jected to specific aging cycles. In conclusion, the authors claim to h	as det- lms sub- nave ex-
perimentally demonstrated the specific nature of the effect on PVC of a tures of antirads and inhibitor-stabilizer in an environment of varying ages of gamma-radiation. They have also shown the possibility in prince increasing the radiation resistance of PVC-base polymer materials and t advisability of introducing into the practical formulas of plastics and ducts special admixtures - antirads and inhibitor-stabilizers in compose with the acceptor-stabilizers normally employed in industrial practice. art. has: 8 figures and 1 table.	; dos- ciple of the i pro- dition
tures of antirads and inhibitor-stabilizer in an environment of varying ages of gamma-radiation. They have also shown the possibility in prince increasing the radiation resistance of PVC-base polymer materials and t advisability of introducing into the practical formulas of plastics and ducts special admixtures - antirads and inhibitor-stabilizers in compose with the acceptor-stabilizers normally employed in industrial practice.	; dos- ciple of the i pro- dition
tures of antirads and inhibitor-stabilizer in an environment of varying ages of gamma-radiation. They have also shown the possibility in princ increasing the radiation resistance of PVC-base polymer materials and t advisability of introducing into the practical formulas of plastics and ducts special admixtures - antirads and inhibitor-stabilizers in compos with the acceptor-stabilizers normally employed in industrial practice. art. has: 8 figures and 1 table.	; dos- ciple of the i pro- dition
tures of antirads and inhibitor-stabilizer in an environment of varying ages of gamma-radiation. They have also shown the possibility in prince increasing the radiation resistance of PVC-base polymer materials and t advisability of introducing into the practical formulas of plastics and ducts special admixtures - antirads and inhibitor-stabilizers in compose with the acceptor-stabilizers normally employed in industrial practice. art. has: 8 figures and 1 table. ASSOCIATION: none	dos- ciple of the pro- pition Orig,

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VOYUJSKIY, S.S.; KARGIN, V.A., akademik; USTINGVA, Ye T.; SHTEDING, M.N. Viscoelastic promoties of unwoven text is materials. Dokl. AN SSSR 160 no.1:173-181 Ja '65. (MIRA 18:2)
1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova i TSerbral'nyy nauchno-issledovatel'skiy institut khlopchatobumazhnoy pr myshlennosti.

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ACCESSION NR: AP5012422	UR/0374/65/000/002/0003/0008
	678:539 . 376
AUTHORS: Shteding, M. N. (Moscow); Kargi	n, V. A. (Moscow)
TITLE: Determining the fr <u>ost resistance</u> thermomechanical method	of polymeric materials and films by the
SOURCE: Mekhanika polimerov, no. 2, 1965	, 3- 8
OPIC TAGS: thermomechanical property, p lependence / deformometer	olymer, polyvinyl chloride, temperature
BSTRACT: The authors demonstrate the popendence of deformation in unlaxial stret	ssibility of using the temperature de-
is a quick and sensitive method of determ	ining frost resistance. They used a
evice called a deformometer, developed a I. Malinskiy and G. L. Slonimskiy (Zav. 1)	ab., 1956, 10, 12/7), normitting measure-
ents of tensional stress in the temperate amples were frozen in the apparatus to c	ure range from -80 to 2000 The test
ure was then steadily increased at set i	ntervals of time (3 min. 5 min) and the
train measured. Tests were made on poly rd $1/2$	vinyl chloride with different contents

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L quantities of pla be thus evaluated. It is concluded the	Results indicate that the	
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	Ll quantities of pla be thus evaluated. it is concluded tha rial controls. Ori ENCL: 00	ENCL: 00 SUB CODE: 0C, TD

I. 43098-65 EWT(n)/EPF(c)/EWP(j)/T Pc-4/Pr-4 ACCESSION NR: AP5008373	8/0190/65/007/003/0474/0477
AUTHORS: Yoyutskiy, S. S.; Shieding, M. N.;	
TITLE: Relaxation and thermomechanical prope	rties of nonwoven <u>textile</u> materials
SOURCE: Vysokomolekulyarnyye soyedineniya, v	. 7, no. 3, 1965, 474-477
TOPIC TAGS: textile, relaxation property, th polymer/ SKN 40 1GP latex, Polyani extensomet	ermomechanical property, cotton textile er, deformometer
ABSTRACT: Using materials described in a pre T. Ustinova (Vyiokomolek. soyed., 7, 468, 196 <u>fiber</u> saturated with b <u>utedienecrylonitryl lat</u> authors studied the relaxation properties of meter was used in this work. Figure 1 (a and	ex <u>SKN-40-1GP</u> and methazine resin, the nonwoven textiles. A Polyani extenso-
exponentially with time T. The relaxation w	are taken for 60 minutes. Thermomechan-
above their original lengths, and readings we ical properties of these materials and of the a deformometer. Results indicate that the pu ture at which the materials begin to flow. I behaved as polymers. The possibility of appl	resence of methazine raises the tempera-
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investigation of the mechanic	al properties of these mater	
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	uchno_issledovatel'skiy inst	titut khlopchatobumazhnoy
ASSOCIATION: Tsentral'nyy na promyshlennosti. Moskovskiy	institut tonkoy khimicheskoy	r tekhnologii im. M. Y.
promyshlennosti. Moskovskiy Lomonosova, Fizko khimiches	skiy institut im. L. Ya. Karl	pova (Central Solentific
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Technology. Physico-chemical	L INSCITUTO)	
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.53810-65EWT(m)/EPF(c)/EWP(1)/2FC CCESSION NR: AP5014497	<u>-4/br=4</u> BM UR/0032/65/031/006/0758/0759
UTHORS: Rubshteyn, V. M.; Gel'perin, Ye.	620,171:1,05
TTLE: Spring-loaded dynamometer for testi OURCE: Zavodskayn laboratoriya, v. 31, no	
OPIC TAGS: measuring apparatus, testing d potentiometer, EPV? 03 potentiometer	
BSTRACT: The dynamometer described here h plastic materials for elongation and breaki and 200C. Lengths of the tested specimen v could reach 160 mm. A detailed description given. In testing, a specimen is placed in 'ive minutes, and subjected to tension at t readings are taken with an accuracy of 0.5	ng limit at temperatures between 20 aried with different material and and a drawing of the instrument are an 0.5-kw electric oven, heated for he rate of 3 cm per minute. Length
eadings are taken with an accuracy of 0.) at a maximum force of 4 kg was 31 mm. Each corresponded to 20 grams of force. Overall 380 x 240 x 144 mm, and its weight is 10 kg and 1/2	O.155-mm division of the round scale



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SIMPSON, George Wilfrid; SHTEFAN, A [translator]

[Ukraine; a series of maps and explanations indicating the historic and contemporary geographical position of the Ukrainian people]Ukraina; seriia map i poiasnen', sheho z'iasovulut istorychne znachenila i suchasne geografichne stanovyshche ukrains'koho nærodu. Augsburg, Ukrains'ka knyha, 1946. 48 p. (MIRA 15:10)

(Ukraine---Historical geography maps)

APPROVED FOR RELEASE: 07/13/2001

SHTEFAN, I.D., inzh.; FILIPPOV, I.G., inzh.

Sinking inclined shafts in the Artem Mine. Shakht. stroi. 5 no.7:20-21 Jl '61. (MIRA 15:6)

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1. Krivorozhskiy filial Ukrainskogo nauchno-issledovatel'skogo instituta organizatsii i mekhanizatsii shakhtnogo stroitel'stva. (Krivoy Rog Basin--Shaft sinking)

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SHTEFAN, I.D., inzh.; KRIVOSHEY, I.A., inzh.

Sinking inclined shafts in the Krivoy Rog Basin. Shakht. stroi. 7 no.7:23-26 Jl '63. (MIRA 16:10)

l. Krivorozhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta organizatsii i mekhanizatsii shakhtnogo stroitel'stva.

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SHTEFAN, I.D., inzh.; SORIN, M.S., inzh.

Transporting men, rocks, and material in sinking inclined shafts. Shakht. stroi. 7 no.4:9-10 Ap '63. (MIRA 16:3)

1. Krivorozhskiy fillal Ukrainskogo nauchno-issledovatel'skogo instituta organizatsii i mekhanizatsii shakhtnogo stroitel'stva.

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ASSOCIATION: Moskovskiy institu			
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SATSKIY, V.A.; SHTEFAN, P.T.; FEDORENKO, V.K.

Mastering the rated capacity of continuous light-section and wire rod mills. Met. i gornorud. prom. no. 2:65-66 Mr-Ap '64. (MIRA 17:9)

SHTEFAN, Radu [Stefan, Radu], profsoyuznyy organizator grupp; ZMEU, Mikhay [Zmanu, Mihai]; PYRVAN, Aleksandru [Pirvan, Aleksandru]

Trade-union group organizers of Rumania share their experience. Sov. profsoiuzy 18 no.10:25-26 My 162. (MIRA 15:5)

l. Organizator 14 profgruppy Novogo tsekha Reshitskogo metallurgicheskogo kombinata (for Zmeu). 2. Organizator 2-y profgruppy tsekha pervichnoy distillyatsii Nefteochistitel*nogo zavoda, Ployeshti (for Pyrvan). (Rumania-Trade unions)

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GOLYAKOVA, Ye.S.; SHTEFAN, V.M.

Improving the method for preparing ammonium sulfate. Prom. khim. reak, i osobo chist. veshch. no.1:7-8 '63. (MIRA 17:2)

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SHTEFAN, V.Ye.; LIBERMAN, A.A.; POMERANTSEV, O.V.

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Automation of work processes in the Kharkov No.2 Hydroelectric Power Station. Energ. i elektrotekh. prom. no.2:3-6 Ap-Je '62. (MIRA 15:6) (Kharkov Hydroelectric Power Station) (Automatic control)

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S - 2 1

RUSHCHINSKIY, V.M., kand.tekhn.nauk; DUEL', M.A., kand.tekhn.fauk: DEMENT'IEV, V.A., inzh.; NECHAYEV, B.Ya., inzh.; THEFAN, V.Ya., inzh.; SHTEFAN, V.Ya., inzh.
Experimental system for the control of the 67-2SP boiler and K-50-90 turbine block by means of a control computer. Teploenergetika 9 no.10:32-35 0 '62. (MIRA 15:9)
1. TSentral'nyy nauchno-issledovatel'skiy institut kompleksnoy avtomatizatsi i Khar'kovskoye upravleniye energokhozyaystva. (Automatic control) (Electric power stations)

APPROVED FOR RELEASE: 07/13/2001

DUEL', M.A., kand. tekhn. nauk; MAR'YENKO, A.F., inzh., dissertant; SHTEFAN, V. Ye., inzh.

Determination of optimal programs for starting the K-50-90 steam turbine using the model of its heating processes. Teploenergetika 11 no.12:77-79 D'64 (MIRA 18:2)

1. Gosudarstvennyy vsesoyuznyy tsentral'nyy nauchno-issledovatel'skiy institut kompleksnoy avtomatizatsii i Khar'kovenegro.

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DUEL', M.A., kand. tekhn. nauk; GOPP, A.Yu., inzh.; ZAK, I.D., inzh.; MAE'YENKG, A.F., inzh.; LIBERMAN, A.A., inzh.; SHTEFAN, V.Ye., inzh.

Results of the tests of information input systems of a computer controlling a power system. Energ. i elektrotekh. prom. no.3:7-11 J1-S '65. (MIRA 18:9)

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L 05858-67 EWT(d)/FSS-2 ACC NR: A P6022055 SOURCE CODE: UR/0146/66/009/003/0057/0062]
(CZ) 55
AUTHOR: Vasil'yev, V. I.; Galek, I.; Shtefka, I.
ORG: Taganrog Radio Engineering Institute (Taganrogskiy radiotekhnicheskiy institut);
Engineering Institute of Control Theory and Methods in Machine Building, Brno (Inzhenernyy
institut teorii i metodov upravleniya v mashinostroyenii)
TITLE: Characteristics of methods for transmitting synchronizing information by multi-
frequency codes
SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 3, 1966, 57-62
TOPIC TAGS: signal transmission, synchronous communication, signal coding
ABSTRACT: A scheme is discussed for developing a synchronizing code with K - 1 indexes and
which passes through the same number of signal-index filters and delay devices (which are also
required to deliver the received pulses simultaneously, at the end of the procedure, to a unit which performs a majority function). A parallel-series synchronizing code having n time
positions, each capable of carrying several signal indexes is considered. The number of
mises reaching the majority function prior to delivery of the synchronizing code is minimized
by the method of indeterminate Lagrange multipliers. The maximum number of pulses at the
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brevity errors in the series codes which capability of series sy the synchronizing code reduction in code tran	a correct single errors	aronizing code is capable of here s∞ is treated. Scheme e illustrated. It is conclud recting errors does not exc a parallel-series procedun ble to use the parallel proc xes. Orig. art. has: 13 fo ORIG REF: 003	re; 3) for maximum	
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SMORODINOV, M.A., MARA, LEANN, NAUS SHTEPKO, I.V., kand. tekhn. nauk; <u>Hintro....M., inch.</u> Gverall mechanization of the loading and unloading of mineral fertilizers. Mekh. i avtom. proizv. 18 no.10x13-17 0 '64. (MIRA 17:12)

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	(A)	SOURCE CODE: UR/0356/65/000/011/0007/0012
	andidate of t	echnical sciences); Strelets, V. (Engineer);
htefko, G. (Engineer)		
RG: none		
		B
ITLE: Transportation	of mineral fe	rtilizers in polyethylene bags
OUDCE. Takhnika v sel	tekom khozvav	stve, no. 11, 1965, 7-12
UUNCE. TERIMINA 4 SEI	. SKON KNOLJEJ	Stvc, no. 11, 1903, /-12
OPIC TAGS: polyethyle	ene plastic, f	ertilizer, agriculture
	nonent on the	
		use of bags made from 0.23 mm polyethylene for tes. These containers have 20 times the impact
torage of fertilizer t trength of multilayer	o reduce loss paper bags.	es. These containers have 20 times the impact Polyethylene packaging is completely waterproof
torage of fertilizer t trength of multilayer nd nearly impervious t	o reduce loss paper bags. o atmospheric	es. These containers have 20 times the impact Polyethylene packaging is completely waterproof oxygen and nitrogen. Polyethylene film can stand
torage of fertilizer t trength of multilayer nd nearly impervious t emperatures from -40°	to reduce loss paper bags. to atmospheric to +60°C and	es. These containers have 20 times the impact Polyethylene packaging is completely waterproof coxygen and nitrogen. Polyethylene film can stand is not affected by the chemical action of mineral
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BUZANOV, S.P., professor; SHTEFKO, I.V., kandidat tekhnicheskikh nauk.
BUZANOV, S.P., professor; SHTEFKO, I.V., kandidat tekhnicheskikh nauk.
Using through raised tracks for unloading coal in specialized stations. Vest. TSNII MPS 15 no.4:51-53 D '56. (MLEA 10:2)
I. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta imeni I.V. Stalina.
(Railroads--Stations)

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32(2)	SOV/118-59-2-19/26
· AUTHOR:	Shtefko, I.V., Candidate of Technical Sciences
TITLE:	Complex Mechanization in Handling Packed Piece-Freight (Kompleksnaya mekhanizatsiya pererabotki tarno-shtuch- nykh gruzov)
PERIODICAL:	Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959, Nr 2, pp 51-56 (USSR)
ABSTRACT :	At present, packed piece freight makes up one fourth of the total freight turnover. According to the sche- duled figures of the 7-Year Plan (1959-1965), this amount will increase continuously. In 1958, the me- chanization of loading and unloading of packed pie e freight was only 12%, because the existing work method excluded the efficient utilization of loaders. Refer- ring to transportation abroad (the US, France, England, West Germany, Sweden, etc), the author advocates the transportation of packed piece freight using pallets and containers, direct delivery from the sender to the
Card 1/2	addressee, the use of ZIO loaders and 4004 loaders

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Complex Mechanization in Handling Packed Piece-Freight

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(despite their poor maneuverability and insufficient lifting capacity), and the standardization of all loading and unloading operations. The author demands the mass production of standardized pallets and containers, the developing of new and more efficient loading machines with internal combustion motors, and of hand carts or trolleys equipped with hydraulic lifting mechanisms and fork catches. Figure 7 shows how to load ZIL-5, GAZ-51, ZIL-150, YaG-6 and YaAZ-200 trucks using 800X1,200 mm pallets. There are 3 photographs, l0 diagrams, and l table.

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Efficiency of packaged freight transportation. Zhel. dor. transp. 41 no.4:49-53 Ap '59. (MIRA 12:6) (Railroads--Freight)

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