s/170/61/004/006/011/015 B129/B212 26.2263 Yegorov, Yu. A., Pankrat'yev, Yu. V. AUTHORS: Fast-neutron spectrometer with one indicator TITLE: Inzhenerno-fizicheskiy zhurnal, v. 4, no. 6, 1961, 112-115 PERIODICAL: TEXT: A fast-neutron spectrometer with a high gamma background is described. The separation of the recoil proton and electron pulses is based on the difference in the fluorescence time of the scintillator when irradiated by heavy and light particles. It is known that several organic scintillators show this difference in the fluorescence time when irradiated by heavy particles (alpha particles and protons) and by electrons. This time difference depends on the different ionization capability of the heavy and light particles. There are more ionized molecules along the track of a heavy particle in the scintillator than along that of an electron. After about 10-9 sec the excited molecules will return into their normal state and the ionized ones after about 10^{-7} sec. Therefore the fluorescence will take place in two parts for both cases: viz. a Card 1/6

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Fast-neutron spectrometer ...

fast and slow part. The slow part caused by heavy particles will last longer than that caused by light particles. Therefore, the mean fluorescence time during irradiation of the scintillator by heavy particles will be greater than that by light particles. The front of the current pulse in the photo-multiplier will also differ for both kinds of particles viz. that caused by light particles will be steeper than that caused by the other particles. Stilbene crystals possess such properties. Pulses of different shapes are produced if such a crystal is irradiated by neutrons and gamma rays, so that pulses of neutrons can be distinguished on the background of gamma rays. Stilbene crystals possess such properties. Fig. 1 shows a pulse discriminator, which is used in the spectrometer described in connection with a stilbene/crystal to determine fast neutrons with one/pickup. Fig.3 shows a block diagram of this instrument. This fast-neutron scintillation spectrometer is not sensitive to a gamma background when irradiated by neutrons having an energy E_n 2 Mev.

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Fig. 4 shows the measurement results obtained with this spectrometer. There are 4 figures and 3 non-Soviet-bloc references. The references

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F. 1963 EWP(j)/EPF(c)/EPF(n)-2/EWT(m)/BDS AFFTC/ASD/SSD Pc-4/ Pr-4/Pu-4 RM/WW/DM 78 s/0089/63/015/001/0017/0020 L 12860-63 ACCESSION NR: AP3003970 AUFHOR: Avayev, V. N.; Vasil'yev, G. A.; Veselkin, A. P.; Yegorov, Yu. A.; Orlov, Yu. V; Pankrat'yev, Yu. V. TITLE: Reactor neutron flux attenuation in polyethylene SOURCE: Atomnaya energiya, v. 15, no. 1, 1963, 17-20 TOPIC TAGS: neutron attenuation, polyethylene, polyethylene neutron attenuation, slow neutron, fast neutron, neutron relaxation length, biological shielding, water-water reactor ABSTRACT: The attenuation of fast and slow neutron fluxes by polyethylene has been investigated experimentally in a water-water research reactor. A polyethylene 680 x 680 x/1000-mm prism consisting of square plates 10 and 20 mm thick was irradiated by placement in a recess in the heavy concrete shielding of the reactor. The slow neutron fluxes were measured by the use of resonant indicators (indium, iodine) and a BF, counter. The fast neutron distribution was measured by means of threshold indicators P(n,p), Al(n,p), and Al(n,α) and a scintillation counter with ZnS(Ag). During measurements the plane indicators were inserted into gaps between the polyethylene plates, and 1/22 Card

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tron source. A comparison	were placed into 20 x 20 x 1 ned are shown in Figs. 1 and 2 a obtained by the method of me of neutron relaxation logation	< of the Enclosure, ments for a point new	
laxation length in polyethy authors thank the reactor	of neutron relaxation length of neutron relaxation length ater under identical condition vlene is 12-17% shorter than operating personnel and labora ." Orig. art. has: 2 figure	in polyethylene (den- is showed that the re-: that in water. "The	
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L 11129-63 ACCESSION NR: AP3003971 are shown in Fig. 1 of the Enclosure along with the results calculated by the method of moments (shown by the solid line). The measured spectra were found to be in good agreement with theoretical results for all thicknesses of the polyethylene layer at $E_n > 3Mev$. At $E_n < 3Mev$ & divergence between the experimental and calculated results was noted. However, the tendency for a charge in spectra with an increase in layer thickness in this energy range was the same for both calculated and experimental spectra. At neutron energies from 3 to 4 Mev and polyethylene thicknesses greater than 20 g/cm 2, the curve of the measured spectra showed a sharper dip than that of the calculated spectra. This is probably due to some inaccuracy in selecting or averaging the cross sections during calculation. The sharper dip in the curve was also noted in neutron spectra measured in water. "The authors thank their coworkers who serviced the reactor and laboratory assistants who assisted in the carrying out of experiments." Orig. art. has: 1 figure. ASSCCIATION: none SUBMITTED: 25Aug62 DATE ACQ: 08Aug63 ENCL: 01 SUE CODE: NS NO REF SOV: 003 Card 2/32 OTHER: 002

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L 05043-67 $EWT(m)/EWP(j)/EWP(t)/ETI IJP(c) JD/JR/GD/RMACC NR: AT6027927 COMPARENT COMPARENT AT6027927$	
ACC NR: AT6027927 SOURCE CODE: UR/0000/66/000/000/0	100 /00 -00
AITTHOR . Yesonow V.	120/0122 39
AUTHOR: Yegorov, Yu. A.; Orlov, Yu. V.; Pankrat'yev, Yu. V.	37
ORG: None	
	B+1
TITLE: Titanium removal cross section for a layer in a hydrogen- SOURCE: Vormer $\mathcal{V}_{\mathcal{I}}$	
SOURCE: Vonrogen -	containing medium
SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics sbornik statey, no. 2. Moscow, Atomizdat, 1966, 120-122	of reactor shielding)
TOPIC TAGS: particle cross section, titenium, noutron	
TOPIC TAGS: particle cross section, titanium, neutron cross sect:	ion, research reactor
ABSTRACT: Removal cross sections for titanium were measured in a of the swimming pool type. Sheets of titanium measuring 70,70	Water-water monster
of the swimming pool type. Sheets of titanium measuring 70×70 cm reactor core with dimensions of $50 \times 43 \times 32$ cm. The removal cross set	were placed near the
iron the expression	ection was determined
$N(r)G(r) = N(r-d)G(r-d)e^{-\Sigma_{a}d}$	
where $N'(r)$ is the neutron flux at distance r ; $N'(r-d)$ is the neut tance $(r-d)$ when there is no plate; Σ_n is the macroscopic reservables	
tance $(r-d)$ when there is no plate; $\Sigma_{\rm B}$ is the macroscopic removal the thickness of the plate and $G(r)$ is the comparison of the plate $C_{\rm B}$ is the plate $C_{\rm B}$	ron flux at the dis-
the thickness of the plate and $G(n)$ is the summation of the second se	cross section; d is
the thickness of the plate and $G(r)$ is the experimentally determined	ed correction factor
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for geometric attenuation. The results show a removal cross section of 1.72±0.06 barns. The removal cross sections determined for detectors with various effective energy thresholds from 1.1 to 7 Mev coincide within the limits of experimental error. The minimum distance from the plate used for the removal cross section depends on the effective threshold of the detector. For neutrons with an effective energy of 1.5 Mev in polyethylene b this distance is close to 15 cm. The distance decreases with an in-	ur i i i i i i i i i i i i i i i i i i i
crease in the threshold. Orig. art. has: 3 tables, 4 formulas.	
SUB CODE: 20,18/ SUBM DATE: 12Jan66/ ORIG REF: 006/ OTH REF: 001	
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L 28032-66 EPF(n)-2/EWI(m)/ETC(f)/EWG(m) ACC NR. AP5026441 SCURCE CODE: UR/0089/65/019/004/0354/0359 AUTHOR: Vasil'yev, G. A.; Veselkin, A. P.; Yegorov, Yu. A.; Moiseyev, G. G.; Pankrat'yev, Yu. V.	
ORG: None TITLE: Attenuation of pile radiation in serpentinite sand SOURCE: Atomnaya energiya, v. 19, no. 4, 1965, 354-359 TOPIC TAGS: nuclear reactor material, nuclear reactor shield	
ABSTRACT: The use of serpentine rock for biological shielding is dis- cussed. This mineral is found widely distributed in the Urals, Caucasus Siberia and Kazakhstan, usually associated with asbestos deposits such as the Bazhenov quarries where pure serpentinite monoliths of about 1 cu m were excavated. Its bound water is liberated only at temperatures ex- ceeding 450° C. Thus it can be used as a heat-resisting material for biological shielding. The concentration of hydrogen nuclei in serpen- tite being about 1.5% by weight, is quite sufficient for insuring the attenuation of fluxes composed of intermedfate and fast neutrons. The density of monolithic serpentinite is about 2.6 ton/cu m while the thermal could be easily out. The compression strength of blocks made of serpen- cord 1/3	

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tinite reaches 600 kg/sq cm. The shielding properties of serpentinite fine sand (from Bazhenov deposits) were tested in a water-cooled and water-moderated research reactor. The boxes filled with sand were placed close to the core vessel. The maximum thickness was about 180 cm. The sand density was 1.62 ton/cu m. The chemical composition given in a table shows that the serpentite sand includes 38.83% of SiO2 and 37.39% The investigations were carried out assumming "semi-infinite" of MgO. and "energy barrier" geometry. The method of induced activity was used for determining the neutron flux attenuation, while the gamma dose rate was measured by means of a scintillation dosimeter. The macroscopic cross-section for fast neutrons in sand was calculated as 0.0602 cm-1 of which 45% was due to oxygen and 21% to hydrogen. The variations of cross sections in serpentite and its main components for different levels of fast neutron energy was shown in a graph. The peaks and dips in curves reflected the dependence of cross-sections upon the presence of oxygen. The attenuation of fast neutrons calculated on the basis of threshold measurements is also graphically illustrated. From these graphs and a table, it follows that the relaxation of neutron in serpentite sand is the same as in boron carbide. The protective properties of serpentite monolithical blocks are considerably higher than those of iron ore concentrates and only slightly better than those of serpencinous concrete. The spectra of fast neutrons were also determined and the Cord 2/3

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energy distributions at 0, 30, 60, 100 and 140-cm thickness were plotted for various values of neutron flux. The greatest changes were observed for energy levels from 3 to 8 Mev. The relaxation length varies from 14.9 to 17 cm. The flux attenuation for thermal and epithermal neutrons was also investigated. A certain accumulation of neutrons was observed at small serpentite thicknesses. The relaxation was about 15.2 cm. This length is smaller than that (about 20 cm) obtained for iron ore concentrates. The attenuation of dose rates of fast and intermediate neutrons was the same for tested layer thicknesses. The dose relaxation was 15.2 cm. The gamma dose attenuation was 22 cm for a serpentite layer of 270 g/sq cm. The experiments showed that the serpentite sand is as good as the boron carbide. In conclusion, it was stated that the serpentite is not as good as the iron ore concentrate, although the monolithic serpentite has a lower relaxation length. The serpentite shielding properties could be improved by using a mixture consisting of 25% of sergentite and 75% of iton. The full neutron dose relaxation will be about 9 cm. ORIG. art. has: 4 tables and 5 graphs. SUE CODE: 18 / SUEM DATE: 29Jan65 / ORIG REF: 11 / OTH HEF: 3 3/3 CC

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Ì VASIL'YEV, G.A.; VESELKIN, A.F.; YEGOROV, Yu.A.; RUCHERYAYEV, V.A.; PANKRAT'YEV, Yu.V. Attenuation of reactor radiations by serpentine concrete. Atom. energ. 18 no.2:121-127 F 165. (MIRA 18:3) \$ 國部 100











<u>s (f)</u>		
	ACCESSION NR: AT4019065 S/000/63/000/0304/0310 .	
	AUTHOR: Yegorov, Yu. A.; Pankrat'yev, Yu. V. TITLE: A single-crystal fast-neutron spectrometer for the measurement of continuous	
2	spectra SOURCE: Voprosy* fiziki zashchity* reaktorov; sbornik statey (Problems in physics of source: voprosy* fiziki zashchity* reaktorov; sbornik statey (Problems in physics of	X
	TOPIC TAGS: nuclear reactor, reactor shielding yield proton method, subono continuou radiation dosimetry, neutron, neutron spectrometer, single crystal spectrometer, continuou	8
	ABSTRACT: The authors call attention to the differences between spectrometers with the ABSTRACT: The authors call attention to the differences between spectrometers. single hydrogen-containing scintillator and other high-efficiency scintillation spectrometers. It is pointed out that the possibility of discovering differences in the glow time of certain it is pointed out that the possibility of discovering and electrons and the development of the second	
•	It is pointed out that the possibility are radiated by protons and electrons and the development organic scintillators when they are radiated by protons and electrons and the development methods for the discrimination of pulses caused by gamma-radiation has recently made methods for the discrimination of single-crystal spectrometers for various kinds of measur possible a far wider application of single-crystal spectrometers for various kinds of the ments. The yield proton method is discussed as the most widely used technique for the	
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ACCESSION	NR: AT4019066		\$/0000/63/000/000	0/0310/0312	
	Yegorov, Yu. A.; Orlo	v, Yu. V.; Pankr	at'yev, Yu. V.		
TITLE: Pe	ermissible Gamma-back h a single detector			neutron spectro-	
SOURCE: N sics of re 310-312	Voprosy* fiziki zashc eactor shielding; col	hity* reaktorov; lection of artic	, sbornik statey les). Moscow, G	(Problems in phy- osatomizdat, 1963,	
TOPIC TAGE spectromed ment	S: neutron spectrum, ter, spectrometer dis	, Gamma-backgroun crimination, pho	nd, fast neutron, ptomultiplier, ne	reactor shielding, utron flux measure-	
tion spect separation and separa last dyno 5, 198 (19	The discriminating trometer against a y n by an electronic ci ation based on the sp de and the anode of a 958)). In both cases tal (30x20 mm). The and determined from th	-radiation back rcuit (Brooks, I patial charge same a photomultiplie s, an FEU-33 pho	kground was stud F. D. Nucl. Instr turation in the r r (Owen, R. B. Tr tomultiplier was	um. 4, 151 (1959)), egion between the ans. I.R.E. PGNS used with a stil- eter was set at	
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ACCESSION NR: AT4019066 used and Co ⁶⁰ served as a γ -radiation source. The results are given in the Enclosure, based on data obtained by the electronic circuit separation method (Fig. 1a) and the spatial charge saturation method (Fig. 1b), respectively. As seen from Fig. 1a, γ -quanta at 1.33 Mev are not registered until the intensi- ty of γ radiation exceeds 4mc/sec. In the spatial charge saturation method, γ -quanta are registered only if the limit of 15-20 mc/sec is exceeded. It is found, however, that γ radiation with energies greater than 3 Mev is registered. when the spatial charge saturation method is used in measurements on a nuclear when the spatial charge saturation method is used in measurements of a nuclear it is then possible to measure a fast neutron spectrum when the ratio of neutron flux to that of γ -rays is 1:2000. Orig. art. has: 2 figures. ASSOCIATION: none SUBMITTED: 14Aug63 DATE ACQ: 27Feb64 ENCL: 01 SUB CODE: NP NO REF SOV: 005 OTHER: 003	

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PANKREV, P. I.

> PANKREV, P. I. --**Water- Soluble' Camphor Compounds as Regulators of Blood Pressure in Experiment₈₁ Hypotonic and Hypertonic States in Dogs. *(Dissertation for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min of Higher Education USSR, Leningrad Veterinary Inst., Leningrad, 1955

SO: Knizhnava Letopis', No. 25, 18 Jun 55

* For Degree of Candidate in Veterinary Sciences

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PANKRUSHIN, V.K., aspirant.

Investigating the accuracy of staking out engineering structures by the method of angular intersections. Izv. vys. ucheb. zav.; geod. i aerof. no.5:63-71 '60. (NIRA. 13:12)

l. Novosibirskiy inzhenerno-stroitel'nyy institut imeni V.V. Kuybysheva.

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CIA-RDP86-00513R001239

AUTHORS: Gusarov, A. K., Pankrushin, V. K. 8/006/60/000/03/003/019 B007/B123 TITLE: On the Application of the Method of Measuring Angles in Sets PERIODICAL: Geodeziya i kartografiya, 1960, Nr 3, pp 21 - 25 (USSR) TEXT: The present paper refers to an article by B. M. Rubis published in the periodical "Geodesiya i kartografiya", 1959, Nr 1. B. M. Rubis demands that the application of the method of measuring angles in sets be prohibited for observations at triangulation points of the second order, and that it should be restricted at points of the third order. Based on the experience gained in the Novosibirskoye AGP (Novosibirsk Aerogeodetic Enterprise) it is shown that B. M. Rubis is wrong. The observers N. F. Shishayev, Yu. A. Bykov, I. G. Dement' yev, and N. A. Dragovich are mentioned. For observations with changing sight conditions in some directions the method suggested by N. V. Yakovlev (Ref 1, footnote on p 23) is recommended. In order to confirm the arguments in favor of this method Professors D. A. Kuleshov (Ref 2, footnote on p 24) and K. L. Provorov and Docent A. A. Vizgin (Ref 2, footnote on p 24) are cited. Based on the explanations made here the following is noted and suggested: 1) When observing points of continuous triangulation nets by means of the method of measuring angles in sets the results obtained show the same accuracy as when observing angles in all combinations. However, it saves time, and the successive Card 1/2

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On the Application of the Method of Measuring Angles S/006/60/000/03/003/019 in Sets B007/B123

adjustment is simpler when applying the former method. 2) Experience gained from setting up continuous triangulation nets of the second and third order more than half the points of the second order and all points of the third order being observed by the method of measuring angles in sets - showed that the accuracy achieved met the demands of the mapping phase. 3) For setting up triangulation nets the most economical methods must be used in order to prevent superfluous work. On of the ways would be to apply to a large extent the method of measuring angles in sets and the method of "incomplete observations" for observations at triangulation points of the second order. 4) The development of new methods used to measure horizontal angles must be continued, the solution being found in uniting the method in all combinations with the method of meato nine for observations of triangulation points of the third order should be considered. There are 1 table and 3 Soviet references.

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3 (4) AUTHOR: Pankrushin, V. K. SOV/6-59-5-12/25 TITLE: Some Remarks on the Reconnaissance of Triangulation Points (Nekotoryye zamechaniya po rekognostsirovke punkto; triangulyatsii) PERIODICAL: Geodeziya i kartografiya, 1959, Nr 5, pp 28-31 (USSR) ABSTRACT: The paper under consideration presents a number of remarks on the method and the devices employed in reconnaissance. As a rule, two main operations are carried out in the reconnaissance of the triangulation nets of the 2nd and 3rd orders according to the maps drawn on a scale of 1 : 100000 - accurate identification of the zone for the projected point in the terrain, and the determination of the elevation of the control point. The Novosibirskoye aerogeodezicheskoye predpriyatiye (NAGP)(Novosibirsk Aerogeodetic Enterprise) employ the procedure proposed by the author. In open or closed flat terrains this procedure facilitates with sufficient accuracy the immediate reaching of the zone of the projected station along the mapped-out route, vast and deep bogs being avoided. The direction of movement is determined by means of a compass, Card 1/2the distance by means of a two-meter rod. - The flat taiga

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Some Remarks on the Reconnaissance of **Triangulation** Points

SOV/6-59-5-12/26

bog terrain, where the author carried out work, is called "urman" by the population. On the boggy ground of the urman progress is difficult even for horses carrying burdens of only 30-40 kg. Almost always two horses are required per man. The highest tree clusters consist of aspen trees, which are very brittle, thus rendering difficult the erection of masts on these trees. In open and flat terrain the distance is determined by the number of wheel revolutions in vehicles or cars by means of a speedometer. A cyclometer ("odometr") is recommended for the Soviet Far North. Some remarks are presented on the erection of masts and on reconnaissance from masts or tree-tops. - The use in reconnaissance of periscopes of the type of the artillery mast periscope seems desirable. These periscopes would render superfluous the climbing of masts and eliminate the dangers involved. Besides, women could then also be employed in reconnaissance. There are 5 Soviet references.

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MATERIAN CONTRACTOR OF THE SECOND STORE FOR CHERICAL TRADEWORD PANKRUSHIN, Y.K. "The Placing of Masta on Trees for Reference Points in Triangulation," by V. K. Pankrushin, Tr. Novosibir. in-ta. inzh. geod., <u>aerofotos'yemki i kartogr.</u>, No 7, 1956, pp 41-46 (from <u>Refera-</u> <u>tivnyy Zhurnal -- Astronomiya, Geodeziya,</u> No 2, Feb 57, Abstract No 1641) The means of lifting masts and poles on trees is suggested. For this method, only three workers are needed. It is also suggested that the man setting the reference points use metallic insertion stairs instead of wooden leads, and to fix the span rope, that he use clamps in the form of a chain with a semiautomatic closure. The computation of the strength of the lifting rope, levers, and turning axis is presented. (U) m.1360

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connection diagram are presented. The instrument ind permits visual observation of active-power, voltage, and current pulses (3 oscilloscopes for tell and the instruments are 50-1.000 amp; peak voltage in for 1-10 Mc range. Rated peak currents are 50-1.000 amp; peak voltage in for

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S/120/61/000/004/012/034 E192/E382

9.6000 (1089,1159) AUTHORS: Yakovlev, K.A., Pankrushina, D.K. and Basin, Yu.G. TITLE: A pulse-power measuring instrument PERIODICAL: Pribory i tekhnika eksperimenta, no. 4, 1961, pp. 89 - 91

A block diagram of the instrument is shown in The signals from pick-ups 1 and 2, which are TEXT: proportional to the current and voltage amplitude (in the Fig. 1. right phase) are applied to the voltage dividers 3 and 4 The latter are used for attenuating the signals to the required level necessary for the operation of the converter 5. When the input signals are applied to the converter, a constant amplitude pulse is obtained at its output, the pulse being proportional to the instantaneous active power across the measured load. The peak value of the pulse is recorded by the memory device 6 and is measured by the DC vacuum tube voltmeter 7. The correcting network 8 is employed for the correction of the measurement error of the converter. A calibration generator 9 is used for checking the instrument Card 1/04

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£9503 S/120/61/000/004/012/034 A pulse-power measuring instrument E192/E382 during its operation. The electrical circuit of the pick-ups is such as to give a satisfactory amplitude and phase response over the frequency range from 0.8 to 8 Mc/s. The current and voltage ranges for the pick-ups are 50 - 2 100 A and 1 - 15 kV, respectively. The feeders for the pick-ups are in the form of screened cables, type PK-50 (RK-50), 8 m long. The current pick-up (Fig. 2) is in the form of a toroidal coil situated in an electromagnetic screen. The mean diameter of the coil is 150 mm and the cross-section of its winding is 6 cm^2 , the number of turns being 70. The coil resistance is $R_1 = 20$ ohm and the natural resonance frequency of the coil is The voltage pick-up (Fig. 3) is mounted on the 15 Mc/s. toroidal screen of the current pick-up. Its transfer coefficient The quantity $\omega_{H}C_{2}\rho = 3$, which eliminates the is 0.01. ١X frequency-phase errors of the pick-ups. The converter of the instrument is based on a pentode type $\lceil K - 7 \rceil$ (GK-71) and the high-frequency pulses from the dividers are applied to the Card 2/

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29603 s/120/61/000/004/012/034 E192/E382 A pulse-power measuring instrument The biasing voltage first and the third grids of this tube. and the signal amplitudes are chosen so that the operating point of the pentode does not emerge from the linear region of and i (ug3). $i_{a}(u_{g1})$ its static characteristics magnitude of the DC component at the anode of the converter $I_H U_H \cos \phi$ at is therefore proportional to the active power the load; the increment of the anode voltage level is therefore used as the useful signal. All the high-frequency components of the anode voltage are eliminated by a low-frequency filter having a cut-off frequency of 400 kc/s. During the operation of the converter, a negative video pulse is obtained at the output of its anode filter. The polarity of the pulse is changed by a phase inverter and this is applied to the cathode followers which drive three storage diodes. The parameters of the storage diodes are chosen in such a way that the charge on the ۰X capacitance of the last storage cell, which corresponds to the peak value of the pulse, remains constant for about 2-3 sec. The voltage across this storage capacitance is measured by the Card 3/9. L 这次是有著思想的意思。

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المراجع ويرجع التعلي وتحويه معالية الجوالة والمتصلح والمراجع المراجع الم 29603 s/120/61/000/004/012/034 E192/E382 A pulse-power measuring instrument The calibration generator produces single, valve voltmeter. amplitude-calibrated video pulses of both polarities; the negative pulse is used to test the storage circuit while the positive pulse is employed to check the converter. The instrument is supplied from the mains via a ferroresonance stabiliser. For the mains changes of + 10 - 15% the change in the instrument reading does not exceed 1%. The instrument does not require recalibration when any of its tubes are replaced since its reading is not changed thereby by more than 2 - 3%. The authors thank N.G. Kovalenko, V.N. Goncharov and V.P. Bezruk for taking part in designing the preliminary There are 4 figures. к models of the instrument. November 2, 1960 SUBMITTED: Card 4/ 4

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CIA-RDP86-00513R001239

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STADNIKOVA, Ye.I.; PANKRUSHINA, G.V.

Method of compensating for massive and rapid losses of blood. Trudy Inst. klin. 1 eksp. khir. AN Kazakh. SSR 9:60-63 '63. (MIRA 17:12)



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PANKUL, L. A.

THE REPAIR OF <u>DIESEL ENGINE CYLINDERS.</u> L. A. Pankul. (Avtogennos Delo, 1948, No. 3, p. 32). (In Russien). A description is given of the repair of large cracks in American diesel engine cylinders by <u>oxy-acetyleno welding</u> with a <u>borax flux</u>. The engines repaired in this way have given satisfactory service for a number of years.

Immediate source clipping

CIA-RDP86-00513R001239



	Pub. 128 - 15/26
Authors Title	 Sineok, Ya. Ya.; Baranov, M. S.; Pankul, L. A.; Sapiro, L. S.; Kagan, I. Z.; Glukhov, P. A.; Miknin, V. N.; and Karpichev, A. S. The cold welding of crude iron
같은 소송가 되어졌어요.	 Vest. mash. 2, 68-71, Feb 1954 In order to familiarize and draw the attention of readers to the pressing problems of cold welding (soldering) of crude iron, the Editorial Office published several articles in which various methods of cold welding are discussed, and a description is given of the operations performed and the type of electrodes and equipment used for the above mentioned purpose. Table; drawings; illustrations.
같은 소송가 되어졌어요.	In order to familiarize and draw the attention of readers to the pressing problems of cold welding (soldering) of crude iron, the Editorial Office published several articles in which various methods of cold welding are discussed, and a description is given of the operations performed and the type of electrodes and equipment used for the above mentioned purpose. Table; drawings; illustrations.

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PANKULLAT 135-9-14/24 Dikiy, V.M., and Pankul, L.A., Engineers AUTHORS : Repair of a Cast Iron Locomotive Cylinder by Welding (Remont TITLE: svarkoy ohugunnogo parovoznogo tsilindra) "Svarochnoye Proizvodstvo", 1957, # 9, p 32 (USSR) PERIODICAL: The article describes repair operations performed at the ABSTRACT: Smolensk Locomotive Depot on a cylinder of a "33y706-90" locomotive, which was severely damaged in an accident. Broken off portions of the cylinder and the frame were welded and the broken bushing was replaced. Iron-copper electrodes "034-1" of 3-5 mm diameter were used. The work required 31 kg of these electrodes and 30 work hours. After the desoribed repair, the locomotive has been now for a considerable time in service. No defects were revealed on the repaired cylinder at the recent regular overhaul of locomotive. A detailed description of all repair operations involved is given. As a conclusion, it is stated that the electrodes "034-1" considerably extend the possibilities of cold welding of cast iron, in particular in the repair of locomotives Card 1/2

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USSR/Welding - Methods Aug 1947 Alloys, Antifriction	7
"Beading Antifriction Alloys with Metal Electrodes," L. P. Pankul, Highway Instructor for Investigation of Locomotive Service, Trans-Caucasian RR, $\frac{1}{2}$ p	
"Avtogennoye Delo" No 8	
Author adds his article to that published in issue No 1, 1947, of "Avtogennoye Delo." Commends the foresight of the Ministry of Transportation which suggested carburization of beads and bushings	
produced from ST-2 and tempering where ST-5 was used. Four locomotives using beads with bronze plating, in 1946, fully proved the worth of the Ministry of Transportation's foresight	
18T1	16

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ACC NR: AP7009120 INVENTOR: Pleshko, A. P.; Kashirin, Yu. N.; Pankusov, N. A.	
ORG: None TITLE: A hydroacoustic pulsator for checking pressure gauges. Class 42, No. 191169 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1967, 110 TOPIC TAGS: resonator, waveguide, pressure gage, quality control, piezoelectric transducer ABSTRACT: This Author's Certificate introduces a hydroacoustic pulsator for checking pressure gauges. The device contains a base which holds a piezoceramic transducer and pressure gauges. The device contains a base which holds a piezoceramic transducer and pressure gauges. The device contains a base which holds a piezoceramic transducer and pressure gauges. The device contains a base which holds a piezoceramic transducer and pressure gauges chamber filled with fluid. To increase the amplitude and frequency of the a working chamber filled with fluid. To increase the amplitude and frequency of the a trator with the broad end connected to a spherical radiating diaphragm while the narror trator with the broad end connected to a spherical radiating diaphragm while the narror end is connected to interchangeable tubular resonators terminating in the head and tes pickups.	W
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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-

GOGUADZE, V.P.; IVANOV, T.N.; VITUL'SKAYA, N.V.; KVESELAVA, V.N.; NATROSHVILI, D.R.; PANKVELASHVILI, A.G.

Solubility of hydroxylamine sulfate in cyclohexanone ar the separation of the cyclohexanone oxime complex system Scob. AN Gruz. SSR 37 no.3:567-572 Mr '65. (MIRA 18:5)

1. Institut prikladnov khimii i elektrokhimii AN GruzSSR, Tbilisi. Submitted June 15, 1964.

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REAL PROPERTY AND A PROPERTY OF T 学科的机器制 SOURCE CODE: UR/0413/66/000/020/0163/0163 INVENTOR: Bogdanov, S. A.; Kaloyev, A. V.; Makeyev, A. D.; Shipilevskiy, G. B.; <u>Ponomarcev, V. L.</u>; Simonov, L. P.; Soshnikov, A. A.; Kalinovskiy, N. F.; Vaynshteyn, L. A.; <u>Fann, L. A.</u>; Kudel'skiy, V. A.; Skrypnik, I. A. ACC NRI AP6035917 TITLE: Device for automatic control of a wheeled vehicle. Class 45, No. 187433 TITLE: Device for automatic control of a wheeled vehicle. Glass 40, NO. 10/433 [announced by the State Union Scientific Research Tractor Institute (Gosudarstvannyy soyuznyy nauchno-issledovatel'skiy traktornyy institut); Khar'kov Tractor Plant SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 163 TOPIC TAGS: agricultural machinery, outomatic control automatic control and a sector and a secto ABSTRACT: An Author Certificate has been issued for a device for the automatic tractor, motor vehicle ADDIANULE AN AUTHOR CERTIFICATE HAS BEEN ISSUED FOR A GEVICE FOR THE AUTOMATIC Control of a wheeled vehicle, which includes a duplicating feeler, a feeler-defleccontrol of a wheered ventcre, which includes a duplicating reduct, a reductorer. tion transducer, an electric gate valve, and a hydraulic steering-gear amplifier. To simplify the chargeover to and from supporte control of the equipment with a threasimplify the changeover to and from automatic control, it is equipped with a threesimplify the changeover to and from automatic control, it is equipped with a three-way cock with a handle. The cock's input is connected to a pump, one of its outputs is connected to a distributing hydraulic amplifier, and its second output is connected UDC: 631.36:629.114.2-52 <Card 1/2 and the second second the second second ÷.

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中国的建筑建筑

KIBALENKO, Teresa; PANNERT, Leszek

Studies on the electrophoretic picture of the blood serum in premature infants. Pediat. pol. 38 no.2:145-155 '63.

1. Z Zakladu Wczesniakow Katedry Propedeutyki Pediatrii AM w Warszawie Kierownik Katedry: prof. dr med. Z. Lejmbach Kierownik Zakladu: doc. dr med. I. Bielicka.

> (INFANT, PREMATURE) (BLOOD PROTEIN ELECTROPHORESIS)

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Β : HUNGARY COUNTRY : Physical Chemistry. Molecule. Chemical Bond. CATIORY holecular Spectra 1960, No.124 : RZKhim., No. 1 ABS. JOUR. : Pannetier, G.; Guenebaut, H. AUTHOR : Hungarian AS : Explosive Decomposition and Atomic Flames of INST. TITLE Normal and Heavy Hydrazoic Acid. The Transition $3\prod - 3\Sigma$ NH and ND : Acta chim. Acad. scient. hung., 1959, 18, ORIG. FUB. No 1-4, 347-364 ABSTRACT : No abstract See HZhihim., No 20, 1959, No 70361. 1/1 CARD: B-2

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PANNIKOV, Viktor Dmitriyevich
(Gor'kiy Agricultural Inst), Academic degree of Doctor of Agricultural Sciences, based on his defense, 6 April 1955, in the Council of Moscow Forestry-Engineering Inst of his dissertation entitled: "Genesis of forest-steppe soil."
Academic degree and/or title: Doctor of Sciences
So: Decisions of VAK, List no. 18, 10 Sep 55, Byulleten' MVO SSR, No. 17, Sep 56, Moscow, pp 9-16, Uncl. JPRS/NY-435











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MASIMANSKIY, G.N.; PANNIKOVA, R.F.; KAMOSHER, G.D. Production of high-octane catalytic reforming gasolines. Khim. i tekh. topl. i masel 10 no.12:1-6 D '65. (MIRA 19:1) 1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

MASLY	NSKIY, N.G.; ZAERYANSKIY, Ye.I.; KAMUSHER, G.D.; PANNIKOVA, R.F.				
	Detonation stability of gasolines from catalytic reforming. Khim.1 tekh.topl.i masel 8 no.2:49-52 F '63. (MIRA 16:10)				
	l. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov i Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.				
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ACCESSION NR: AP4018071 S/0080/64/037/002/0393/0399	•	
AUTHORS: Maslyanskiy, G.N.; Kamusher, G.D.; Pannikova, R.F.		
TITLE: Catalytic reforming of gasoline fractions in the presence of traces of carbon tetrachloride	d	
SOURCE: Zhurnal prikladnoy khimii, v.37, no.2, 1964, 393-399		
TOPIC TAGS: gasoline, gasoline fractions, catalytic reforming, alumi noplatinum catalyst, chloro organic compound addition, catalyst stabi lity, octane number, catalyst regeneration, carbon tetrachloride trac	L	
ABSTRACT: In studying the catalytic reforming of gasoline fractions with a catalyst consisting of 0.6% platinum precipitated with aluminu oxide, it was found that the addition of 0.005-0.01% COl_4 to the crud oil increases the activity of the catalyst. This increase in activit is shown by the increase in octane number of the product (e.g., from 78.5 to 83), the increase in its aromatic hydrocarbon content (46.3 to 47.5%), and the decrease in its yield (from 81.1 to 75.2%). Introduct tion of very small amounts of organic chlorine compounds to the reac-	le ty to	
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PANO, Dh.

Good organization of galleries is an important factor in the increase of output in chromium mines. p. 12

TEKNIKA. (Ministria Industri-Miniera dhe Ndertim-Komunikacion) Tirane, Bulgaria. (Issued by the Ministry of Industry and Mining and the Ministry of Construction and Communication. Bimonthly) Vol. 6, no. 2, Mar./Apr. 1959

Monthly List of East European Accessions (EEAI), IC, Vol. 8, no. 11, Nov. 1959 Uncl.

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FANO, db.
"Analysis of industrial accidents."
p. 7, (Teknika) Vol. 4, no. 6, Nov./Dec. 1957 Tirrae, Albania
SO; Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

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CIRSTEA, D., ing. (Craiova); MATHE, B., ing. (Craiova); OGREZEANU, St., ing. (Craiova); PANOIU, A., ing. (Craiova); TUDORACHE, C., ing. (Craiova). Studies on the commutating capacity of the IUP-110 switch, under laboratory and network conditions. Pt. 1. Electrotehnica 12 no.4: 132-141 Ap '64. 1. "Electroputere" Plant, Craiova.

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