

KUZNETSOV, P.V.: GUREYEV, I.A.; SMIRNOV, A.D., inzh., red.; SOLOV'YEV, P.F., inzh., red.; LEPLINSKIY, M.P., red.; BORUNOV, N.I., tekhn. red.

> [Installation of electric power distribution systems] Montazh raspredelitel'nykh ustroistv. Izd.2., perer. i dop. Moskva, Gos. energ. izd-vo, 1961. (Spravochnik elektromontera, no.3) (MIRA 15:2)

(Electric power distribution-Handbooks, manuals, etc.)

APPROVED FOR RELEASE: 06/19/2000

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AVINOVITSKIY, I.Ya.: ALEKSEYEV, S.V.; BARANOV, B.M.; GEL'MAN, R.Ye.; DVOSKIN, L.I.; DOLGINOV, A.I.; YERMILOV, A.A.; ZALESSKIY, Yu.Ye.; KAMENEVA, V.V.; KLIMIKSEYEV, V.M.; KHYAZEVSKIY, B.A.; KHZNETSOV, P.V.; RIVKIN, G.A.; FEDOROV, A.A.; SERBINOVSKIY, G.V., red.; BOL'SHAM, Ya.M., red.; BRANDENBURGSKAYA, E.Ya., red.; VORONIN, K.P., tekhn. red.

> [Manual for power engineers of industrial enterprises in four volumes] Spravochnik energetika promyshlennykh predpriiatii v chetyrekh tomakh. Moskva, Gosenergoizdat. Vol.1. [Electric power supply] Elektrosnabzhenie. Pod obshchei red. A.A.Fedorova, G.V. Serbinovskogo i IA.M.Bol'shama. 1961. 840 p. (MIRA 15:6) (Electric engineering)

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GREYSUKH, M.V.; YERMILOV, A.A.; ZALESSKIY, Yu.Ye.; KAZYMOV, A.A.;
KATSEVICH, L.S.; KIRPA, I.I.; KIREYEV, M.I.; KNYAZEVSKIY,
B.A.; KOFMAN, K.D.; KRZHAVANIK, L.V.; KUZNETSOV, P.V.;
MOROZOV, K.S.; RAKOVICH, I.I.; RYABOV, M.S.; SVENCHANSKIY,
A.D.; SOKOLOV, M.M.; SYCHEV, L.I.; TVERDIN, L.M.; KHEYFITS,
M.E.; SHULIMOV, Ye.V.; EPSHTEYN, L.M.; SHCHEGOL'KOV, Ye.I.;
TSAPENKO, Ye.F.; FEDOROV, A.A., glav. red.; SERBINOVSKIY, G.V.,
red.; BOL'SHAM, Ya.M., red.; BRANDENBURGSKAYA, E.Ya., red.;
TVERDIN, L.M., red.; FRIDKIN, L.M., tekhn. red.

[Handbook for power engineers of industrial enterprises in four volumes] Spravochnik energetika promyshlennykh predpriiatii v chetyrekh tomakh. Moskva, Gosenergoizdat. Vol.2. [Electric-power supply (conclusion), use of electric power and electrical equipment in some branches of industry] Elektrosnabshenie (okonchanie), priemniki elektroenergii i elektrooborudovanie nekotorykh otraslei promyshlennosti. Pod obshchei red. A.A.Fedorova (glav. red.), G.V.Serbinowskogo i IA.M. Bol'stama. 1963. 880 p. (MIRA 16:7)

CARRIER STATES OF DEPARTMENT

(Power engineering-Handbooks, manuals, etc.) Electric power distribution)

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KUZNETSOV, P. Ye.	
Radishes	
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9. Monthly List of Russian Accessions, Library of Congress, May 1952, Un	ncl.
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S/200/61/000/001/002/005 D223/D305

1.1800 also 4016, 1087

AUTHORS: Chernyak, S. S., Tolstikova, Ye. A., and Kuznetsov, R.A.

TITLE: Increase in resistance to wear of steels and cast irons by the method of electrolytical sulphidation

PERIODICAL: Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya, no. 1, 1961, 25-30

TEXT: The sulphidation processing of metallic surfaces is widely used in order to increase the resistance to wear and "gripping" ability of machine parts and cutting tools. In a previous work S. S. Chernyak and R. A. Kuznetsov (Ref. 1: Issledovaniye metodov sul'fidirovaniya dlya uprochneniya rezhushchego instrumenta i detaley mashin (Investigation of Sulphidation Methods for Hardening Cutting Tools and Machine Parts), TsBNTI, TsNIITMASh, M, 1959) give the results of work on the chemical-thermal sulphidation of cutting tools and the experimental data on the structure of sulphide film on the metal. Chemical-thermal sulphidation although giving satisfactory results in most cases suffers from: 1) Long sulphidation

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CIA-RDP86-00513R000928130005-3

# 22676 S/200/61/000/001/002/005 D223/D305 Increase in resistance ... of parts in salt solution; 2) Need to use costly salts in appreciable quantities and their careful preparation; (dehydration, special feeding conditions etc); 3) Specific conditions of treatment with salt solution. The study of electrolytic sulphidation was principally concerned with the effect of optimum current density and the duration of electrolysis. The effect of these factors on the resis-tance to wear was compared to the chemically nickel-treated parts. The sulphur content of sulphided parts, and the anti-scratch properties and microstructure were determined also. Sulphidation was done in an electrolytic bath with a capacity of 4 liters at a temperature of 90 - 98°C. The electrolyte was an aqueous solution of potassium thiocyanide with a concentration of 42.5 g/l or 85% and sodium hyposulphite of 7.5 g/l or 15% strength. The cathode was made of lead sheet and the anode consisted of the sulphided sample. The voltage used varied within the range of 10-12 volts. The investigation confirmed that the electrolytical sulphidation produces a dense and deep (up to 0.3 mm) sulphide layer on the metallic surface. The sulphur concentration is plotted against the distance from the metallic surface by the authors. The microstructure of Card 2/6

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which corresponds to 5000 revolutions of the roller. The products of wear were submitted for chemical analysis and the results are given in Table 4. Legend: (1) Sulphidation conditions; (2) Roller revolutions; (3) Current density  $a/dm^2$ ; (4) Time hours; (5) to 5000; (6) from 5000 to 10000; (7) from 10000 to 15000; (8) Sulphur content %.

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L 19371-66 EWT(=) DIAAP G8/RH		
ACCESSION NR: AT5013654 UR/0000/65/000/000/0176/0179 543.53 + 66.074.7:546.284		
AUTHOR: Kalinin, A. I.; Kuznetsov, R. A.; Moiseyev, V. V.		
TITLE: <u>Radioactivation analysis of silicon dioxide by means of ion exchange chromato-</u> graphy./ Part 4. Separation of elements on an anion exchanger from solution of hydro- fluoric acid and a mixture of hydrofluoric and hydrochloric acid		ی او در ا
SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Radiokhimicheskiye metody opredeleniya mikroelementov (Radiochemical methods for determining trace elements); sbornik statey. Moscow, Izd-vo Nauka, 1965, 176-179		
TOPIC TAGS: column chromatography, anion exchange resin, radioactivation analysis, silica analysis, halide separation		يو . رو
ABSTRACT: The salts of arsenic, phosphorus, tungsten, antimony, molybdenum, tin, and tantalum are characterized by a complex chromatographic behavior due to their tendency to hydrolyze and to the existence of these ions in several stable oxidation states. In order to minimize the hydrolysis, solutions of HF and HF-HCl mixtures were used for the ion-exchange separation on the AV-17 resin (see Figs. 1 and 2 of the Enclosure). The procedule employed is described. To determine the extent of separation of the elements, radioactive $C_{erd}$ 1/4	0	

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	L 19371-66 ACCESSION NR: AT5013654	7
•	tracers in artificial mixtures were employed. A complete separation was achieved if the activity of the separated fractions did not exceed 10 <sup>5</sup> counts per min. The time required for the separation of P, As, W, Sb, Sn, Mo, and Ta was 1.5 to 2 hours. Orig. art. has: 2 figures and 1 table.	
·····	ASSOCIATION: None	
	SUBMITTED: 07Apr64 ENCL: 02 SUB CODE: IC, GC	
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	CESSION NR: AT5013655	//Em3(@//EWP{t} 138	UR/0000/65/000/000/0180/0 543.53 + 66.074.7:546.284	)181
AU	JTHOR: Kalinin, A. I.; Ku	znetsov, R. A.; Moise	eyev, V. V.; Sokolova, M. N	Bti
m	TLE: Radioactivation analy aphy. 1 Part 5. Separation	rais of silicon dioxide l	by means of ion-exchange chr	omato-
SO	155	iye obshchey i tekhnich amentov (Radiochemica	neskoy khimii. Radiokhimich al methods for determining tr	eskiye ace
Ta	OPIC TAGS: column chrom adioactivation analysis, neu rontium separation, barium	tron bombardment, su	ange resin, alkaline earth m ica analysis, calcium seprar	etal, ation,
ba th fo F	arium isolated from sample le successive elution of the orm) with colutions of trilon	elements adsorbed on a B of various pH value	o separate calcium, strontium with neutrons. The procedur a <u>KU-2</u> cation exchanger (in t s. The elution curves are sh was checked on artificial min plete separation of Ca, Sr, an	he NH4 <sup>+</sup> own in ctures

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CCESSION NR: AT5013655		0
eir separation from a large amount of sodium v tivation determination of Ca, Sr, and Ba (invol $-7$ g for Ca, $9 \times 10^{-8}$ g for Sr, and $2 \times 10^{-8}$ for flux of $10^{14}$ neutrons/cm <sup>2</sup> . sec for 24 hrs.). A e determination has important practical applica	r Ba (the samples had be Ithough this sensitivity is	en subjected to a not very high,
table.		
SSOCIATION: None		
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		S/020/61/141/001/011/021 B103/B147	
	AUTHORS;	Kalinin, A. I., Kuznetsov, R. A., Moiseyev, V. V., and Murin, A. N.	-
	TITLE:	Use of ion exchange chromatography for the activation analysis of microimpurities in silica	• .
	PERIODICAL:	Akademiya nauk SSSR. Doklady, v. 141, no. 1, 1961, 98 - 100	
	immunities i	authors state that the two usual methods of determining micro- in highly pure substances (in this case SiO <sub>2</sub> ) have several	,
	shortcoming	s. Therefore, they used ion exchange chromatography for activated impurities in SiO <sub>2</sub> . Advantages of this method over	
	the usual and and reliabl A quantitat and elution	nalytical methods: the elements to be determined can be quickly y isolated in radiochemically pure state from a complex mixture ive separation is achieved by choosing the proper absorption conditions in ionites. The use of microcolumns (diameter erates the separation of microquantities and saves reagents. of the elements to be separated were determined from the	
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#### CIA-RDP86-00513R000928130005-3

S/020/61/141/001/011/021 B103/B147

Use of ion exchange chromatography...

consumption of carriers added. The sample to be analyzed was fused in a quartz ampul. The standard solution was dried in a polyethylene ampul in a vacuum exsiccator, and the ampul was sealed. Both sample and standards together were irradiated in an atomic reactor. The surface impurities were rinsed from the sample with aqua regia under heating. A carrier solution containing 10  $\mu$ g of each element to be determined was added to the sample, which was then decomposed with HF + HNO<sub>3</sub> mixture, evaporated

together with HF, and diluted with water. The solution was conducted through a polyethylene column filled with strongly basic anionite AB-17 (AV-17) in F form (content of divinyl benzene 8 - 10%, grain size 30-40 $\mu$ , layer thickness 5 cm). Elements forming negative fluoride complexes are

absorbed: Sn V, Mo VI, WV, As, Ta, Sb, and Au III. Sn, Mo, W, and As can be successively eluted with a 17 N HF solution. This, however, requires long columns and much time. Therefore, the elements are eluted together and separated on a 50 mm long column containing AV-17 anionite in Cl form. Differently strong HCl + HF solutions serve as eluants. The slow elution of the tantalum fluoride complex is accelerated by addition of the NO<sub>3</sub> ion. Antimony can be eluted only with 3 N HClO<sub>4</sub>,

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	change chromatography	B103/B147	}
Publ., No. 19	5, 27 (1958).	•	./
ASSOCIATION:	Silicate Chemistry of the A	yy universitet im. A. A. Zhdanova	a
PRESENTED:	June 5, 1961, by I. V. Tanan	ayev, Academician	
SUBMITTED:	June 2, 1961		
Card 4/4			

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5月1日日本社会の行政人口在19月2日



学校法律学校教育

THE REPORT KHOKHLOV, D.G., kand. tekhn. nauk; PRIVALOV, S.I., kand. tekhn. nauk; GROMILIN, F.M., inzh.; KUZNETSOV, R.F., inzh. Investigating the process of roasting fluxed pellets in shaft furnaces. Stal! 23 no.10:879-883 0 163. (MIRA 16:11) 1. Ural'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo instituta mekhanicheskoy obrabotki poleznykh iskopayemykh i Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki.

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#### CIA-RDP86-00513R000928130005-3

S/126/61/012/006/021/023 E073/E535 Kuznetsov, R.I. and Pavlov, V.A. Position of jumps on the extension diagram of poly-AUTHORS : PERIODICAL: Fizika metallov i metallovedeniye, v.12, no.6, 1961, TITLE: The authors investigated polycrystalline specimens of 99.999% purity tin of 2 mm diameter, 50 mm long with a grain size of 0.1 mm in the range from room temperature to  $-100^{\circ}$ C and for deformation rates at  $8 \cdot 10^{-2}$  to  $2 \cdot 10^{-5}$  %/sec. A characteristic feature of the diagrams is the presence of jumps, the location of which depends on the speed and temperature during the tests. With a lowering of the temperature the region of the jumps shifts towards the initial point of the diagram if the deformation rate At a constant temperature, the displacement is in the same direction as the increase in the speed of deformation. Thereby, the nature of the jumps does not change. It was found remains constant. that the deformation  $\varepsilon$ , which corresponds to the first jump on the extension diagram, the deformation speed  $\epsilon$  and the test Card 1/3 1

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Position of jumps on the ...

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temperature T are linked with the following relation:

 $\varepsilon\varepsilon = C \exp \{-Q/kT\}$ , where C and Q are constants. Plotting this relation in the coordinates lncc - 1/T, a linear relation is obtained and from the inclination of the straight line expressing this relation the activation energy Q can be calculated which is approximately equal to 10 kcal/mol, which coincides with the activation energy of self-diffusion for tin. In view of the fact that the material was of very high purity, it is difficult to visualize that these jumps are associated with the presence of impurities in the metal. It can rather be assumed that their appearance is due either to twining during deformation or to polymorphous transformation of the tin from the  $\beta$  into  $\alpha$ -modification during the process of deformation at a temperature which is below the transformation temperature, i.e. below 18°C. There are 2 figures and 12 references: 7 Soviet-bloc and 5 non-Soviet-bloc. The four latest English-language references read as follows; Ref.1; Ichu K. J.Phys.Soc., Japan, 1959, 14, 12, 1822; Ref.2: Basinski Z.S. Proc. Roy.Soc., 1957, A240, 1221, 229; Ref.9: Zener C., Hollmon S.H. Card 2/3

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Position of jumps on the ... s/126/61/012/006/021/023 E073/E535 J.Appl.Phys., 1944, 15, 22; Ref.10: Thomson N. and Millard D.S. Phil.Mag., 1952, 7, 43, 422. ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of Physics of Metals AS USSR) SUBMITTED: July 28, 1961 Card 3/3 ÷.

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KUZNETSOV, R. L.

Organization of epidemiological inspection and of the verification of the liquidation of malaria at the Boradygya Medical Center in the Masally District of the Azerbaijan S.S.R. Med. paraz. i paraz. bol. no.2:181-186 <sup>1</sup>62. (MIRA 15:7)

1. Iz otdela epidemiologii (i. o. zav. - doktor meditsinskikh nauk N. N. Dukhanina) Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye. I. Martsinovskogo (dir. prof. P. G. Sergiyev) Ministerstva zdravookhraneniya SSSR.

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计学生活动情况的情况的情况

AUZNE HEURY **AUTHOR**: Kuznetsov, R.S., Candidate of Technical Sciences 28-3-14/33 TITLE: Soviet Standards for Low-Voltage Electric Devices (sovetskiye standarty na niskovol'tnyye elektricheskiye apparaty) PERIODICAL: Standartizatsiya, 1957, No 3, May-June, pp 54-56 (USSR) The existing Soviet standards cover, as the author states, a **ABSTRACT:** considerable part of low-voltage switches, fuses, contactors, relays etc. There are standards for test methods and for permissible temperature of device portions, separate rules for special - as explosion-proof or marine devices. It is planned to work out in 1957, a new standard (technical conditions) for d.c.devices for rolling stock, and to revise the standard for a.c. contactors. For 1958 it is planned to prepare standards for automatic 15 amp. to 600 amp. switches and universal commutators for control circuits, to revise the standards for secondary protection relays and tumbler switches as well as for test methods; by 1960 the standards have to be revised for contactors, starters, for permissible temperature of device portions, while new standards for packet switches, carbon voltage controllers, collecting equipment, primary control relays (also time relays and thermal relays) and secondary relays of Card 1/2various categories must be developed. The author states that 

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Soviet Standards for Low-Voltage Electric Devices

28-3-14/33

the existing standards do not always meet the needs of industry, and makes general suggestions, as to developing a standard, like FOCT 183-55 (for electrical machines) for general characteristics of low-voltage devices, to combine some standards into one, to more completely standardize the dimensions of devices and their spare parts, etc. Comparisons with foreign practice are made and the work of the International Electrotechnical Commission ("MEK") is referred to. The statement is made that the Soviet standards for contactors do not contain conditions for electrical wear resistance and their mechanical life is limited by one million in-out switchings for a.c. and ten million for d.c.; some foreign firms recommend a mechanical life of ten million switchings for a.c. This latter figure was found to be unrealistic after Soviet tests. The test methods for contactors laid down in the international standard project will have to be further discussed at the coming session of the International Commission. ASSOCIATION: Research Institute for Electrical Industry (Nauchno-issledovatel'skiy institut elektropromyshlennosti) Library of Congress

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SOTSKOV, B.S.; USOV, V.V.; KUZHETSOV, R.S.; DEKABRUN, I.Ye.; KIRILLOVA, Z.S.; VORONIN, K.P., tekhn. Ted;

> [Electric contacts; proceedings of the conference, November 26-28, 1956] Elektricheskie kontakty; trudy soveshchanila, 26-28 noiabria 1956 g. Red. kollegiia: B.S. Sotskov i dr. Moskva, Gos. energ. isd-vo, 1958. 303 p. (MIRA 12:2)

1. Soveshchaniye po elektricheskim kontaktam. Moscow, 1956. (Blectric contactors)

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SOV/110-59-5-1/25 Wear on the Contacts of Low-Voltage Electrical Apparatus the point of contact is to the edge of the metal the greater the wear. Heavily-worn contacts with a rough surface loss much more weight per operation than do smooth cnes. Therefore, after a certain number of switching operations, wear begins to increase progressively and the contact soon fails. In the analysis an attempt was made to determine the wear after a number of operations such that the wear per unit operation was constant. Because of the progressively increasing rate of wear after a certain number of operations the data obtained here cannot be used accurately to determine the total service life of contacts. Available data about the wear of contacts was quite inadequate to establish its dependence on all the various factors that influence it. Therefore, wear was determined qualitatively as a function of five main factors, namely current, surrounding medium (air or cil), nature of the switching operation (making or breaking), contact material and kind of current. Factors that were not taken into account are briefly Card 2/7 SERVICES THE PARTY PARTY AND A PARTY OF A PA

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SOV/110-59-5-1/25 Wear on the Contacts of Low-Voltage Electrical Apparatus discussed. In this work, the formula used to evaluate wear is  $0 = 10^{-9} \text{kNT}^2$ (2)where k is the wear coefficient; Q is the mean total loss of weight of the two contacts; N is the number of switching operations and I is the current. A graph of the relationship between the loss of weight of contacts in electro-magnetic apparatus and the current is given in Fig 1, which shows the maximum and minimum rates of wear in air and also a mean value of wear. The factor k from expression (2) was chosen to assess wear rather than contact weight loss because it changes much less as a function of current. The method of analysing the test results is then briefly described. The value of the wear coefficient was determined for various main conditions, as defined above, and curves of the kind seen in Fig 2 to 5 were plotted. These curves indicate respectively the coefficients under the following conditions: interrupting alternating current in air; making and breaking a given Card 3/7 value of alternating current in air; making and

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SOV/110-59-5-1/25 Wear on the Contacts of Low-Voltage Electrical Apparatus wear must be defined in different ways for different types of contact. Moreover, knowledge of the maximum change in weight is still not enough because the contact surface wears irregularly. The physical processes that cause uneven wear are different for d.c. and a.c. duty, which must accordingly be considered separately. For alternating current, an analysis was made of the results of 32 tests on various three-pole contactors. The distribution of the total wear between individual groups of contacts of a three-pole contactor is given in Table 1. For direct current, Fig 8 plots, as a function of the current, the ratio of wear on the electrode that wears most to the half-sum of the wear of the anode and cathode. For currents below 4A, wear is greater at the cathode than at the anode. For currents greater than 4-12A the reverse is true. It is concluded that the mean loss of weight of two contacts on low-voltage electro-magnetic equipment which make or break rated voltages of 100 to 500 V can be determined approximately from expression (2). The wear coefficient k may be derived from the data given Card 5/7

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SOV/110-59-5-1/25 Wear on the Contacts of Low-Voltage Electrical Apparatus in Fig 6 and it is of the order of magnitude given in Table 2 for currents between 1-500 A. The weight loss may be much less than indicated if the recovery voltage is low. Mechanical wear of copper contacts of contactors involving friction can be determined from Fig 6. In a multi-pole contact assembly, the contacts of one pole fail first: to determine the wear on this contact the mean wear must be multiplied by the variability coefficient. For three-pole equipment in which the wear is defined as the total loss in weight of the contacts of one pole, the variability coefficient may be taken as 1.5 (or 2.5 at the outside). For direct current, if wear of the contact member is governed by wear of one of its contact surface, the value of the variability coefficient may be determined from Fig 8 for currents greater than 20 A. As the radius of curvature of the contact surface Card 6/7increases, wear on breaking increases. Data are given in

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NENDAR MARKEN SOTSKOV, B.S., otv.red.; USOV, V.V., red.; KUZNETSOV; R.S., red.; ZOLOTTKH, B.H., red.; DEKABRUN, I.Te., red.; KIRILIOVA, Z.S., red.: VORONIN, K.P., tekhn.red. [Electrical contacts; transactions of the All-Union Conference on Electrical Contacts and Materials for them] Elektricheskie kontakty. Trudy Vsesoiusnogo soveshchaniia po elektricheskim kontaktam i kontaktnym materialam. Red.kollegiia: B.S.Sotskov i dr. Moskva, Gos.energ.izd-vo, 1960. 423 p. (MIRA 13:10) 1. Vsesoyuznoye soveshchaniye po elektricheskim kontaktam i kontaktnym materialam. 2d, Moscow, 1959. (Electric contactors) 《影響傳播》種

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KUZNETSOV, Rostislav Sergeyevich; YERMOLAYEV, I.N., red.; KHROMCHENKO, G.Ye., red.; SHIROKOVA, M.M., tekhn. red.
[Apparatus of low-woltage power distribution systems] Apparaty raspredelitel'nykh ustroistv niskogo napriasheniia. Izd.2., perer. i dop. Moskva, Gosenergoizdat, 1962. 447 p. (MIRA 15:7) (Electric power distribution-Equipment and supplies)

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CONTRACTOR STREET

SOTSKOV, B.S., otv. red.; DEKABRUN, I.Ye., red.; ZOLOTYKH, B.N., red.; KUZNETSOV, R.S., red.; KIRILLOVA, Z.S., red.; SHUROVA, YU.P., red.

[Electric contactors; transactions] Elektricheskie kontakty; trudy. Red. koll. B.S.Sotskov i dr. Moskva, Energi.a, 1964. 502 p. (MIRA 17:8)

1. Vsesoyuznoye soveshchaniye po elektricheskim kontaktam i kontaktnym materialam. 3d, Moscow, 1962.

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KUZNETSOV, S., kand.tekhn.nauk; KUROCHKIN, A., inzh.

Recent developments in the design of silos for grain and flour. Muk.-elev.prom. 30 no.1:10-11 Ja '64. (MIRA 17:3)

1. Gosudarstvennyy proyektnyy institut po proyektirovaniyu predpriyatiy i sooruzheniy zernovoy i mukomol'noy promyshlennosti.

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USSR/Soil Science. Organic Fertilizers. J-4
Abs Jour: Ref Zhur-Biol., No 6, 1958, 24779.
Author : Kuznetsov, S.F.
Inst :
Title : Results of Tests of Land-Enriching Legume Crops.
Orig Pub: S. kh. Tadzhikistana, 1956, No 10, 46-49.
Abstract: The studies of arid subtropics by the All-Union Scientific Research Institute have shown that in the conditions of the Gissar valley that, according to the crop capacity (41.9 t/ha.) and according to the soil

to the crop capacity (\*1.9 c/na.) and determined the quantity of the humus accumulated in the soil (8.8 t./ha.), early-ripening clover takes first place among the winter legumes, while the winter pea is in the second rank. Of summer legumes, cow pea gave the largest yield (up to 50 t. for two

Card : 1/2

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USSR/Soil Science. Organic Fertilizers.

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24779.

harvests). The first harvest of the cow pea, the rattlebox and the black-eyed pea can be utilized for fertilization of the other field, and the second one - for tillage.

Card : 2/2



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APPROVED FOR RELEASE: 06/19/2000

KUZNETSOV, S.G.; IOFFE, D.V.

Formation of polymethyleneanmonium rings. Part 1: Synthesis and transformations of some esters of diphenylacetic acid. Zhur. ob.khim. 31 no.7:2289-2297 J1 '61. (MIRA 14:7)

•

1. Institut toksikologii Akademii meditsinskikh nauk SSSR. (Acetic acid) (Ammonium compounds) (Ring formation)

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 $\{ j_{i} \} \in \mathcal{J}_{i}$ 



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Study of the hydrogen bond in cholinergic substances by means of infrared absorption spectra. Part 2. Zhur.ob.khim. 31 no.10:3353-3360 0 '61. (MIRA 14:10)

1. Institut toksikologii Akademii meditsinskikh nauk SSSR, Leningrad. (Parasympenthomimetic substances--Spectra)

(Hydrogen bonding)

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IOFFE, D.V.; KUZNETSOV, S.G.

化构成物 网络小小的物

Formation of polymethylene ammonium cycles. Part 2: Synthesis and conversions of some benzilic acid esters. Zhur.ob.khim. 32 no.10:3237-3244 0 '62. (MIRA 15:11)

1. Institut toksikologii Ministerstva zdravookhraneniya SSSR, Leningrad. (Benzilic acid)

(Ethylamine)

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KUZNETSOV, S.G.; FEDOROVA, L.V. Molecular association of cholinergic substances. Part 4.1 (hur.ob.khim. 32 no.ll:3775-3778 N '62. (MIRA 15:11) (Paragympathomimetic substances) (Molecular association)

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