CIA-RDP86-00513R000410610013-5

PA - 2800 Effect of Reflected Electrons in Second Electronic Emission. can be connected with the increase of the reflection-coefficient in the case of growing ϕ (angle of descent of the primary electron beam). The influence of reflected electrons on the SEE-pheomenon was investigated. On the basis of experimental data formulae for the comparative judgement of o (theoretical coefficient of SEE) were deduced in the range U $_{\rm p}$. In this range the free path of the dispersion of primary electrons is greater than the effective work function of the secondary electrons λ_2 . The investigation of σ_{theor} carried out here lead to suppose that the reflected electrons play a considerable part in the process of exciting secondary electrons and that this influence should not be neglected when investigating the SEE-phenomenon, especially in the case of materials, which show a high reflection - coefficient. (7 illustrations, 1 table and 4 oitations from Slav publications) ASSOCIATION: LFTI PRESENTED JY SUBMITTED: 13.11.1956 AWAILABLE: Library of Congress. Card 2/2

APPROVED FOR RELEASE: 06/12/2000





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-24-(6) 24.7700

AUTHORS :

7700 Bol'shov, V. G., Dobretsov, L. N., SOV/181-1-11-26/27 Zharinov, A. A., Krachino, T. V., Repnikova, M. K.

Emission Properties of Germanium Treated in Cesium Vapors

TITLE:

PERIODICAL: Fizika tverdogo tela, 1959, Vol 1, Nr 11, pp 1768-1770 (USSR)

ABSTRACT:

The thermal, photoelectric and secondary electron emissions of monocrystalline n-germanium samples and germanium films were measured in the conventional way. For the germanium films the germanium was deposited by evaporation in vacoum on glass or a tantalum foil and the latter was subsequently treated in cesium vapors. The measuring results are the following: for the germanium film deposited by evaporation on glass and subsequently processed, an increase by 2 orders of magnitude could be established in the electrical conductivity. This points toward a change in volume of the layer. Figure 1 contains the dependence of the real work function $\psi_{\rm T}$ on the temperature of the cathode following a cesium treatment at 800°C cathode temperature and a $\approx 150°C$ measuring instrument temperature. If the cathode is heated at T>300°C for a sufficiently long period after the cesium processing and if the cesium vapors are frozen out, one can

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Emission Properties of Germanium Treated in Cesium Vapors

> again obtain a we, corresponding to the value of pure germanium. Figure 2 represents the characteristic spectrum distribution of 2 photoelectric elements, whose germanium photoelectric cathodes were treated in the following method: a) germanium was evaporated in a vacuum, precipitated on molybdenum glass, and treated with cesium vapor. The temperature of the vapor and the sample was ~200°C. b) The photoelectric cathode was illuminated through an uviol glass mounted before the sample. Figure 3 contains the course of the secondary electron-emission coefficients o (measured at room temperature) for the following samples: a) nontreated germanium, b) germanium treated at 150°C in cesium vapor and for several minutes at a sample temperature of ~800°C. Figures 2 and 3 show that, disregarding a certain shift, the basic course of the curves is maintained for both samples. Additional details will be published in the near future. There are 3 figures.

ASSOCIATION: Leningradskiy fiziko-tekhnicheskiy institut AN SSSR Card 2/3 (Leningrad, Physico-technical Institute of the AS USSR)

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PHASE I BOOK EXPLOITATION

sov/5348

Dobretsov, Leontiy Nikolayevich

Atomnaya fizika (Atomic Physics) Moscow, Fizmatgiz, 1960. 348 p. 40,000 copies printed.

Eds.: F. M. Kuni and M. M. Kal'; Tech. Ed.: A. A. Luk'yanov.

PURPOSE: This book is intended for students of higher technical educational institutions.

COVERAGE: This is a textbook on atomic physics based on a series of lectures given by the author to students of the Radio Technology Division of the Leningradskiy politekhnicheskiy institut (Leningrad Polytechnical Institute). The following topics are discussed: properties of electrons and ions, photon theory of light, quantum theory of atomic structure, elements of atomic spectroscopy, electron spin, Pauli's principle, molecular optics, X-ray and corpuscular diffraction, quantum mechanics, and the electron theory of solids. Mention is made of E. V. Shpol'skiy,

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auth	Physics for of Atomnaya fizika (Atomic Physics), and N. A. Belov, L. Dobretsov, and A. G. Savin, students of the radio divi of the Institute. There are no references.	8-
TABLE (Forewo	OF CONTENTS:	5
1. 2. 3. 4. 56	Electrons and Ions Electron charge Movement of charged particles in electric and magnetic fields Determining the specific charge of electrons Dependence of mass on velocity Positive rays Mass spectrometers Elements of electron optics Classical electronic theory of metals	7 13 23 27 30 33 42 51

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	9.3120 AUTHOR:	Dobretsov, L. N.
	TITLE:	Thermoelectronic Transformers of Thermal Into Electric Energy
	PERIODICAL:	Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 4, pp. 365-394
	diode with a and a suffic the action of it with a th energy trans an uncompens charge"). Th cathode and Langmuir dia	withor discusses the problem of a practicable thermoelectronic a steep characteristic in the negative potential range (Fig. 1) ciently large saturation current of the cathode. He discusses of such a diode from the thermodynamic viewpoint by comparing hermodynamic machine (Fig. 2). The following types of electric sformers published so far, are described: 1) vacuum diode with sated space Tharge (called "vacuum thermocouple with space he course of the potential energy within the space between anode is graphically shown (Fig. 3). Fig. 4 gives the agram with the dimensionless coordinates ξ , η . Furthermore, tion and graphical representation of the voltage - current tic is given in Figs. 5, 6. Fig. 7 shows the power W of
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Thermoelectronic Transformers of Thermal Into Electric Energy S/057/60/030/04/01/009 B004/B002

the diode as dependent on the external resistance r. Fig. 8 gives the dependence of W on the current density j at different temperatures, and Fig. 9 that on the distance d between anode and cathode. The author mentions that with this type practicable current densities can be attained only at d-values of several microns. Fig. 10 shows the scheme of a test model according to Ref. 7, and Fig. 11 gives the respective experimental data. 2) Diodes with a space charge compensated by Cs⁺ ions, with Cs⁺ developing only by ionization of the cathode surface (vacuum thermocouple without space charge): The processes taking place in this transformer are dealt with on the basis of A. I. Ansel'm's calculations which were made according to a suggestion by A. F. Ioffe. The case in which the work function $e\phi_1$ on the hot electrode is smaller than $e\phi_2$ on the cold electrode (Fig. 12) has not been investigated in detail. For $e\phi_1 > e\phi_2$ the following items" are distinguished: a) density j_{1s} of the saturation current of the hot electrode is smaller than j_{2s} of the cold electrode (Figs. 13-18, Table 1); b) $j_{18} = j_{28}$; c) $j_{18} > j_{28}$ (Fig. 19). In this case, the emf at $T_2 = 400^{\circ}$ K is given for different ϕ_1 and T_1 Card 2/4

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Thermoelectronic Transformers of Thermal Into Electric Energy 81107 S/057/60/030/04/01/009 B004/B002

(Table 2). Figs. 20 and 21 show the range within which the reduction of the power factor by heat radiation is not too great. The compensation of the space charge by Cs⁺ ions is discussed. The suggestion of an irregular Cs distribution on the cathode (Refs. 3, 10, 11) is not considered to be very promising (Fig. 22). 3) Transformers in which the space charge is compensated by means of ions developing within the space between cathode and anode (plasma transformer): here, the author refers to papers by M. Ye. Gurtovoy and G. I. Kovalenko (Ref. 13), P. Marchuk (Ref. 14), and N. D. Morgulis and P. Marchuk (Ref. 15) concerning the voltage - current characteristic of a thermoelectronic diode with a tungsten cathode in Cs vapor. Ref. 16 gives the values of the power coefficients (Fig. 23) which are only useful at temperatures at which the tungsten cathode is considerably affected by vaporization. Finally, western papers on plasma transformers (Refs. 10, 18-28) are discussed, and a schematic diagram of a test apparatus from Ref. 18 is shown in Fig. 24. The author mentions the following unsolved problems: influence of the magnetic fields on the motion of electrons and ions (pointed out by B. P. Konstantinov), voltage drop at the cathode due to emission current, etc. The author doubts that the plasma outside the cathode and anode layer is in equilibrium.

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	and 1 German	0	26 references: 7 Soviet, 18 British,		:
	ASSOCIATION:	Fiziko-tekhnicheskiy ind of Physics and Technolog	stitut AN SSSR Leningrad (Institute gy of the AS USSR, Leningrad)		
	SUBMITTED:	January 12, 1960		4	
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Card 4/4

BAKAL, M.; DOBRETSOV, L.N.

Milliken vacuum capacitor. Part 1. Radiotekh. i elektron.6 Milliken vacuum no.4:637-641 Ap '61. (Electric capacitors) (MIRA 14:3)

CIA-RDP86-00513R000410610013-5

30438 s/109/61/006/012/013/020 9,3120 D201/D305 26.2531 Dobretsov, L.N. AUTHOR: Constants of thermionic emission TITLE: Radiotekhnika i elektronika, v. 6, no. 12, 1961, PERIODICAL: 2054 - 2062 TEXT: In the experience of the author many people who now have to deal with problems of thermionic conversions, have no clear ideas as to what the thermionic emission constants are. He deems it to be useful, therefore, to consider in the present article these con-stants, to derive them and explain their meaning. From the first principles, he derives the expression for the saturation current in thermionic emission containing the Sommerfeld constant A and then proves that the equation for the thermionic emission current density is valid, with the same value of A for all kinds of emitters, not necessarily metals; The equation is then rewritten as $j = A_1 T^2 \exp \left[-\frac{\epsilon \Psi}{kT}\right]$ (11) Card 1/4

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Constants of thermionic emission .

assuming that the work function is linear within a certain range of temperature near T, from which he proceeds to discuss the Richardson's straight line - the graph of ln $j/T^2 = F(1/T)$ - Richardson's constant A₁ and the Richardson's work function. By considering the electron flow emitted by one of the electrodes of a plane diode and neglecting the effect of space charge and electron dispersion, the expression for the electron stream leaving the first electrode for the second dv_{12} and vice versa dv_{21} are derived, in which D₁ (W_{x1})D₂(W_{x2})/l - R₁(W_{x1})R₂(W_{x2}) - the combined diode transit coeffi-

cient and is denoted by $D_{12}(E_x, V)$. Under the same transit conditions $D_{12}(E_x, V) = D_{21}(E_x, V)$ and for isothermal conditions $T_1 = T_2$ and V = 0 it follows that

 $v_1(E_x - E_{01}) = v_2(E_x - E_{02})$ at T = const. (14)

Since the distribution function $\mathcal{V}(E_x - E_0)$ is determined by the emitter properties and temperature, Eq. (14) is true independently Card 2/4

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30438 s/109/61/006/012/013/020 D201/U305 Constants of thermionic emission is derived, in which $A_{1,2}$ is called the combined thermionic emission constant of a diode which may be used to find the expression for current density from one electrode or electrodes into another. This expression then is $j = A_{1,2}^* T^2 \exp\left[-\frac{s}{kT} \Phi(T)\right]$ (20) in which T - the temperature of emitting electrode, $\Phi(T)$ - its "ac-In which T - the temperature of emitting electrode, $\Psi(T) - 1ts$ "acting" work function, equal to the work function $\varphi(T)$ in the absence of retarding field and equal to $[\varphi(T) + \Delta V]$ in the presence of retarding potential difference ΔV . There are 3 figures and 2 So-viet-bloc references. [Abstractor's note: Ref. 1 is a translation from English, and Ref. 2 from a German language publication]. SUBMITTED: March 21, 1961 • Card 4/4

APPROVED FOR RELEASE: 06/12/2000

BACAL, M.; DOBRETOV, L. N. [Dobretsov, L.N.]

Physical principles of the method of Millikan vacuum condenser. Studii cerc fiz 12 no.2:325-334 '61.

1. Institutul politechnic Leningrad.

(Cosmic rays) (Vacuum apparatus) (Condensers(Electricity))

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L 5405-66 ENT(1) ACC NR: AP5027393

SOURCE CODE: UR/0181/65/007/011/3200/3203

AUTHOR: Dobretsov, L. N

ORG: Physicotechnical Institute, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR) 41; 55

SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3200-3203

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TOPIC TAGS: tungsten, germanium, metal film, Fermi level, field emission 44,5527 15 5527

ABSTRACT: The author discusses the results of previous studies by I. A. Sokolovskaya and N. V. Mileshkina (FTT--3, 389, 1961; 5, 2501, 1963; 6, 1786, 1964) on field emission from tungsten covered with a layer of germanium. A qualitative theoretical explanation is given for the following two observations from these previous papers: 1. when a tungsten knife-edge is covered by a layer of germanium (assumed to be close to monomolecular thickness), the field emission current is reduced by a factor of 40-70, but the current-voltage curve remains parallel to that for pure tungsten, which indicates that the work function is not changed; 2. the energy spec-

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trum for the emitted electrons shows, in addition to the single maximum observed in pure tungsten, a second maximum corresponding to electrons with lower energies. The monatomic semiconductor theory proposed by Sokolovskaya and Mileshkina is rejected, and a hypothesis is proposed which is based on Gurney's unidimensional model of the adsorbed layer (J. Gurney, Phys. Rev., 47, 479, 1935). The ratio between the square of the amplitude of the wave function which corresponds to some energy E_x in the potential wall of the layer and the square of the amplitude of the wave function in the metal Δ (E_x) may be taken as an index of the degree to which the electron cloud penetrates the potential barrier between the metal and the layer for this value of E_x . It is assumed that for the case of a germanium layer on tungsten, the Fermi level in the metal is located opposite the section of the $\Delta(E_x)$ curve with small Δ , and that $\Delta(E_x)$ increases rather rapidly with a reduction in E_x . Orig.

art. has: 2 figures.

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UTHOR: Dobretsov,L.N.; Matskevich, T.L.	. 45
	.Ioffe, AN SSSR, Leningrad (Fiziko-tekhnich-
RG: Physicotechnical Institute im. A.F. skiv institut AN SSSR)	. 10116, AN SSSR, Leningrad (FIEIRO-CORMITCH-
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OURCE: Zhurnal tekhnicheskoy fiziki, v	• 20, 110 • 0, 1200, 1442-1400
OPIC TAGS: work function, transition e	lement, metal, mETAL FILm
DEMONORIA This paper is a polemic again	st the views concerning, the work function of
netals held by G.V.Samsonov and his asso	ciates and expounded by them in a series of
apers beginning in 1957, the most recen	t of which appears in the present issue of
he Journal (ZhTF, 36, 1435, 1966 /see A	bstract AP6028618/). The work function is a contact potential is explained. Experiments
ith films deposited on different substr	ates show that in the case of metals it is the
first few molecular lavers at the surfac	e that determine the work function, although
undreds or thousands of molecular layer	s may be involved in the case of semiconductors
he authors admit that with the aid of a	perfected theory (which is not in sight at
repent) one should be able in principle	e to calculate the work function of a pure us, but they doubt that simple scalar properties
THE TIM THE PICHGICICS OF THE HEAR	cepts presented by Samsonov et al, and their

L:45916-66 ACC NR: AP6028619 presentation of them, are criticized for lack of clarity. Samsonov et al. have not been sufficiently critical of the experimental data when comparing their conclusions with them: data from diverse sources obtained by different methods are uncritically compared (some of the measurements were made as long ago as 1906); the Richardson work function has been employed when the total emission current work function would be more appropriate; and sometimes "recommended" values of the work function have been cited instead of the experimental data themselves. Even the data as cited by Samsonov et al. do not always support the conclusions that they draw from them, and a critical examination of the most reliable work function data reveals no support for any of their concluitions. It is concluded that there is no support of any kind, theoretical or experimental, for the thesis of Samsonov et al. that the work function is mainly determined by the bulk properties of the material. The authors thank M.V. Gomoyunova for her active participation in discussions of the paper. Orig. art. has: 2 formulas, 2 figures and 1 table. ORIG. REF: 031 OTH REF: 013 06Jan66 SUBM DATE: SUB CODE: 20 2/2 mjs Card

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BELOUSOV, A.F.; DOBRETSOV, N.A.; KOCHKIN, Yu.N.; KRIVENKO, A.P.; KUTOLIN, V.A.; TELESHEV, A.Ye.; KHLESTOV, V.V.

Experience in the utilization of calculations on electronic computers for the solution of petrochemical and mineralogical problems. Geol. i geofiz. no.6:163-164 '64. (MIRA 18:11)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

DOBRETSOV, N. L.

Relationship between the principal ions of rhombic pyroxenes and their effect on optical properties of minerals. Zap. Vses. win. ob-va 88 no.6:672-685 '59. (MIRA 13:8) (Pyroxenes) (Minerals-Optical properties)

SOBOLEV, V.S.; ZOLOTUKHIN, V.V.; DOBRETSOV, N.L.

V.N.Lodochnikov's works on Siberian petrography; on the 75th anniversary of his birth. Geol.i geofiz. no.5:138-139 '62.

(MIRA 15:8)

(Lodochnikov, Vladimir Nikitich, 1887-1943) (Siberia-Petrology)

DOBRETSOV, N.L.; PUPYSHEV, N.A.

Find of marine Middle Carboniferous sediments in the eastern Tarbagatay Range. Trudy VSEGEI 74:59-62 '62. (MIRA 15:9) (Tarbagatay Range--Geology, Stratigraphic) (Tarbagatay Range--Deep-sea deposits)

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DOBRETSOV, N.L.

Miscibility limits and mean compositions of jadeite pyroxenes. Dokl. AN SSSR 146 no.3:676-679 S '62. (MIRA (MIRA 15:10)

l. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom V.S.Sobolevym. (Jadeite)

DOBRETSOV, N.L.

Anomalous analcim from jadeite rocks of the Borus Range (Western Sayan Mountains) and its origin. Geol. i geofiz. no.12:114-116 '62. (MIRA 16:3)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Borus Range-Analcite) .

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Lawsonite-glaucophane metamorphic schists in the Penzhina Range of northwestern Kamchatka. Dokl. AN SSSR 160 no.1:196-199 Ja '65. (MIRA 18:2)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. Submitted July 21, 1964.

DOBRETSOV, N.L.

Genesis of ultrabasites. Geol. i geofiz. no.3:3-20 164.

(MIRA 18:7) 1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

DOBRETSOV, N.L.; PONOMAREVA, L.G.

Paragenetic types and the dependence of the composition of metamorphic pyroxenes on the composition and conditions governing the formation of the rocks enclosing them, Sov. geol. 7 no.12:39-57 D '64. (MIRA 18:4)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

DOBRETSOV, N.L.; REVERDATTO, V.V.; SOBOLEV, V.S.; SOBOLEV, N.V.; USHAKOVA, Ye.N.; KHLESTOV, V.V.

> Basic characteristics of the distribution of the facies of regional metamorphism in the U.S.S.R. Geol. i geofiz. no.4: 3-18 '65. (MIRA 18:8)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

SCRAMERIA, L.C.; DOBESSION, N.L.

Cliving ordensation in the Elvrabasitos of the Massite Borns (Mestorn Sayan Meuntains) and Pay-Er (Frotic Cruis), Geol. 1 (MIRA 18:5) geefare ne.52335 : 43 165.

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DOBRFTSOV, N.L.; SOBOLEV, N.V.

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Some problems of petrology at the 22nd session of the International Geological Congress. Geol. i geofiz. no.8: 151-154 '65. (MIRA 18:9) 151-154 '65. ,
DOBRETSOV, N.L.; PONOMAREVA, L.G.

Pyroxenes of the eclogite facies of jadeite rocks and glaucophane schists. Trudy Inst. geol.i geofiz. Sib.ctd. AN SSSR no.30:56-96 '64.

(MIRA 18:11)

 $\sum_{i=1}^{n} (i) = \sum_{i=1}^{n} (i)$ DOBRETSOV, N.L. Effect of the change of temperature and sodium potential during the formation of diaphthoresis of jadeite rocks in ultrabasites. Trudy Inst. geol.i geofiz. Sib.otd. AN SSSR no.30:169-184 '64. (MIRA 18:11) é

EPR/ENP(j)/EPF(o)/ENT(m)/EDS/ES(s)-2 AFFTC/ASD/ESD-3/SSD 1 13678-63 Ps-4/Pc-4/Pr-4/Pt-4 RM/WW s/0080/63/036/006/1335/1341 ACCESSION NR: AP3003773 4 AUTHOR: Koton, M. M.; Debretsov, S. L.; Sokolova, T. A. TITLE: Preparation and study of the properties of copolymers of N-substituted methacrylamides with styrene and methyl methacrylate Zhurnal prikladnoy khimii, v. 36, no. 6, 1963, 1335-1341 SOURCE: TOPIC TAGS: styrene, methyl methacrylate, N-substituted methacrylemide, copolymer, o-biphenylmethacrylamide, p-biphenyl methacrylamide, alpha-naphthylmethacrylamide, beta-naphthylmethacrylamide, triethylamine, increased heat resistance, increased impact strength, dielectric property, temperature frequency dependence, loss tangent, dielectric constant, softening point, N-substituted methacrylamide-methyl methacrylate copolymer ABSTRACT: The effect of N-substituted methacrylamides on the heat resistance and dielectric properties of the copolymers of such amides with styrene or methyl methacrylate has been investigated. The following N-substituted emides were used as monomers: N-O-biphenyl- (I); N-p-biphenyl- (II); N-Q-naphthyl- (III); and Card 1/2

APPROVED FOR RELEASE: 06/12/2000

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ACCESSION NR: AP3003773 N-S-naphthylmethaorylamide (IV). Monomer I was synthesized for the first time by sokolova et al. in 1959. The monomers were prepared from the aromatic amine by acylating it with methacryloyl chloride in the presence of triethylamine to of the components with 0.3-0.6% benzoyl peroxide, with a single step increase in temperature. The data on composition, polymerization conditions, degree of con- version, and dielectric properties are tabulated for the 26 copolymers obtained, which were solid colorless thermoplastic materials. The dielectric properties/were with an MLE device and at 50-7000 ke with a Q-meter. The temperature dependences of the loss tangent and dielectric constant and the frequency dependences of the loss tangent are plotted for the copolymers. The dielectric properties of the copolymers approximate those of polystyreme or poly(methyl methacrylate). The methacrylemide content. Orig. art. has: 3 tables and 3 figures. ASSOCIATION: Institut vy*sokomolekulyarny*kh soyedineniy AN SSSR (Institute of Macromolecular Compounds, AN SSSR) SUBMINIE: CH NO KEF SCV: 003 OTHER: 003	L 13678-63	
acylating it with methacryloyl chloride in the presence of triethylamine to neutralize the evolving EGL. The copolymers were obtained by bulk polymerization of the components with 0.30.6% benzoyl peroxide, with a single step increase in temperature. The dats on composition, polymerization conditions, degree of con- which were solid colciess thermoplastic materials. The dielectric properties/gere determined in the temperature range from -180 to 200C, at 400, 1000, and 5000 cps with an MLE device and at 507000 ke with a Q-meter. The temperature dependences of the loss tangent and dielectric constant and the frequency Gependences of the loss tangent are plotted for the copolymers. The dielectric properties of the softening point of the copolymers increases with an increase in the N-substituted methacrylemide content. Orig. art. has: 3 tables and 3 figures. ASSOCIATION: Institut vy*sokomolekulyarny*kh soyedineniy AN SSSR (Institute of Macromolecular Compounds, AN SSSR) SUEMITTED: 12Mayó2 NO MEEF SOV: 003 NO MEEF SOV: 003	ACCESSION NR: AP3003773	
loss tangent are plotted for the copolymers. The dielectric properties of the copolymers approximate those of polystyrene or poly(methyl methacrylate). The softening point of the copolymers increases with an increase in the N-substituted methacrylamide content. Orig. art. has: 3 tables and 3 figures. ASSOCIATION: Institut vy*sckomolekulyarny*kh soyedineniy AN SSSR (Institute of Macromolecular Compounds, AN SSSR) SUEMITTED: 12May62 SUB CODE: CH NO REF SOV: 003 COTHER: 003	acylating it with methacryloyl chloride in the presence of triethylamine to neutralize the evolving HCL. The copolymers were obtained by bulk polymerization of the components with 0.30.6% benzoyl peroxide, with a single step increase in temperature. The dats on composition, polymerization conditions, degree of con- version, and dielectric properties are tabulated for the 26 copolymers obtained, which were solid colorless thermoplastic materials. The <u>dielectric properties</u> were determined in the temperature range from -180 to 2000, at 400, 1000, and 5000 cps	
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RZHEVSKIY, V.V., prof., doktor tekhn. nauk; PROTASOV, Yu.I., kand. tekhn. nauk; DOBRETSOV, V.B., gornyy inzh.

Low frequency breaking of rock. Gor. zhur. no.4:37-39 Ap 165. (MIRA 18:5) 1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.

DOBRETSOV, V.B.; PROTASOV, Yu.I. Study of the electric resistance of rocks and minerals at low temperatures. Izv. AN SSSR. Fiz. zem. no.4:102-103 ^{765.} (MIRA 18:8) 1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.

CIA-RDP86-00513R000410610013-5

DOBRETSOV, V.B.; SUKHANOV, A.Ye.

Methods of rock breaking during the simultaneous action of positive and negative temperatures. Fiz.-tekh. probl. razrab. pol. iskcp. (MTRA 19:1) no.5:171-173 '65.

1. Institut radioelektroniki i gornoy elektromekhaniki, Moskva.

DOBRETSOV, V.N.; PANTELEYEV, A.A.

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Main trends in the work of area design institutes of an association. Prom. stroi. 42 no.5:2-4 '65. (MIRA 18:8)

1. Ob"yedinentye "Soyuzmetallurgstroyniiproyekt".

DERRETSEV, V.Y.

NADEYN A.P; DOBRETSOV, V. V.

Technic of subtotal resection of the thyroid gland in exophthalmic goiter. Klin. med., Moskva 30 no.3:72-74 Mar 1952. (CLML 22:2)

1. Professor for Nadein. 2. Of the Department of Operative Surgery (Head -- Prof. A. P. Nadein), State Order of Lenin Institute for the Advanced Training of Physicians imeni S. M. Kirov.

DOBRETSOV, V.V., kandidat meditsinskikh nauk (Leningrad, ul. Chekhova, d.12, kv.-20)-Parathyroid arterial blood supply [with summary in English p.160] Vest.khir. 77 no.7:99-103 J1 '56. (MLRA 9:10) 1. Iz 1-y khirurgicheskoy kafedry (i.o.zav. - dotsent A.S.Ghechulin) Gosudarstvennogo ordena Lenina instituta usovershenstvovaniya vrachey im. S.M.Kirova. (PARATHYROID GLANDS, blood supply arterial) (ARTERIES, anat. and histil. parathyroid arterial blood supply)

CIA-RDP86-00513R000410610013-5

56-2-35/51 AUTHORS: Dobretsov, Yu. P., Nikol'skiy, B. A. The Formation of Positive Pions by Negative Pions TITLE: (Rozhdeniye π^+ -mezonov π^- -mezonami) Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958, PERIODICAL: Vol. 34, Nr 2, pp. 510 - 511 (USSR) ABSTRACT: The present work investigated the production of positive pions on the nuclei of a photo-emulsion under the action of negative pions of an energy of from 340 ± 30 MeV. The emulsion chamber consisting of 60 emulsion layers of a total thickness of 23 mm and of a diameter of 100 mm was arranged in a beam of negative 370 MeV pions of the synchrocyclotron of the ONAN (= United Institute for Nuclear Research, Ob" yedinennyy institut yadernykh issledovaniy). The chamber consisted of an HMK ϕ M -emulsion of the P type. On observ-ing the emulsion layers the $\pi \rightarrow \mu^+ \rightarrow e^+$ decays were recorded. Then the found positive pions were traced to the place of their production. When tracing their path 56 stars Card 1/3caused by negative pions were found. In the case of 21 stars vrs:

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56-2-35/51

The Formation of Positive Pions by Negative Pions

the emission of a positive pion is accompanied by the emission of a second pion, which is identified from the gradient of granular density along its path. Such cases obviously belong to the production of positive pions. In the remaining number of the cases no emission of second pion was noticed but these cases can also be related to the production of a positive pion with subsequent absorption of a negative pion in the nucleus (or with emission of a neutral pion). The energy of the such produced positive pions was determined from their range within the emulsion. The energy of the negative pions (in the stars with 2 pions) was determined from the density of the grain. The taking into account of the edge effect is shortly discussed. Two diagrams show the energy spectrum and the angular spectrum of the produced positive pions. The spectra of the positive pions with and without emission of a second pion from the nucleus are similar to each other. In determining the relative momenta of two pions emitted from the same star no noticeable correlation of the two pions of the final state was found. This is, however, only a qualitative final conclusion. The cross section of the production

Card 2/3

56-2-35/51 The Formation of Positive Pions by Negative Pions of slow positive pions (E_{π} + = 0 to 60 HeV) by negative pions of an energy of from 340 ± 30 MeV on a nucleus of the photo--emulsion is equal to $\sigma = (2,1 \pm 0,8) \cdot 10^{-27}$ cm². There are 2 figures, and 8 references, 4 of which are Slavic. ASSOCIATION: AS USSR (Akademiya nauk SSSR) October 29, 1957 SUBMITTED: Library of Congress AVAILABLE: 1. Pions-Formation-Positive 2. Pions-Negative-Applications 3. Pions-Energy spectrum 4. Pions-Angular spectrum Card 3/3

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24(3), 21(7) AUTHORS:	SOV/56-36-4-65/70 Ali-Zade, S. A., Gurevich, I. I., Dobretsov, Yu. P., Nikol'skiy, B. A., Surkova, L. V.
TITLE:	The Asymmetry of Electron Angular Distribution in $\mu_1^+ - e^+$ -Decay in a Magnetic Field of 27000 G (Asimmetriya uglovogo raspredeleniya elektronov $\mu_1^+ - e^+$ -raspada v magnitnom pole 27000 G)
PERIODICAL:	Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 4, pp 1327-1329 (USSR)
ABSTRACT:	If angular distribution is described by the expression $4\pi dN/do = 1-a \cos\theta$ (a = $\lambda P/3 = a_0P$; $\lambda = 3a_0 = -\cos(V,A) char-$
Card 1/3	acterizes the ratio of the vectorial and pseudovectorial share of interaction in $\mu \rightarrow e$ -decay; P denotes muon polarization), it is found that the quantity a depends both on the measuring meth- od and on the nature of the depolarized matter. It attains a maximum value of a = $1/3$ at $\cos(A, V) = -1$. For NIKFI-R emulsions a was determined as amounting to 0.092 ± 0.018 , for Ilford G-5 it was 0.14. The maximum value attained by a for graphite is 0.303 ± 0.048 . The depolarizing property of matter may be reduced by applying strong magnetic fields, the direction of which co- incides with muon polarization. The increase of a brought about

The Asymmetry of Electron Angular Distribution in $\mu^+ \rightarrow e^+$ -Decay in a Magnetic

by magnetic field can be described by $a = a_0 \left[1 - \frac{0.5}{1 + (\mu H/\Delta E)^2} \right]$; a_0 denotes the a-value if no depolarization takes place, ΔE - the energy of fine-structure splitting of the μ -mesic atom in the ¹S-state. An experimental checking of this formula in fields of up to 14000 G showed that by it the dependence a(H) is qualitatively described. The authors determined a in the $\pi - \mu - e^{-1}e^{-$

 $\theta = 150 - 180^{\circ}$ $a_2 = 0.295 \pm 0.027.$

Mean value formation averaged over the directions in which muons fly off gives: $a_3 = 0.305 \pm 0.019$. If $a_{real} = a_3/\cos\theta$, one obtains $a_{real} = a_3/0.940 = 0.324 \pm 0.020$. Herefrom it follows that $|\lambda|P = 0.972 \pm 0.06$, i.e. $|\lambda|$ with an accuracy of up to a

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Card 2/3

CIA-RDP86-00513R000410610013-5"

SOV/56-36-4-65/70 The Asymmetry of Electron Angular Distribution in $\mu^+ \rightarrow e^+$ -Decay in a Magnetic Field of 27000 G

> statistical error of \pm 6% attains its maximum value and P \approx 1. This indicates a considerable degree of inaccuracy of the formula describing a(H). The authors finally thank B. S. Neganov and B. V. Sokolov for their help in irradiating the photoemulsions, D. M. Samoylovich for developing the emulsion, and further also V. N. Kutukova, A. M. Alpers, and G. V. Pleshivtseva for their assistance. There are 8 references, 2 of which are Soviet.

SUBMITTED: February 1, 1959

Card 3/3

CIA-RDP86-00513R000410610013-5

Ų L_8202-66 <u>JXT(C2)</u> ACC NRI AT5022299 SOURCE CODE: UR/3136/64/000/620/0001/0011 AUTHOR: Gurevich, I. I.; Makar'ina, L. A.; Nikol'skiy, B. A.; Sokolov, B. V.; Surkova, L. V.; Khakimov, S. Kh.; Shestakov, V. D.; Dobretsov, Yu. P.; Akhmanov, V. // ٧. ORG: [Gurevich, Makar'ina, Nikol'skiy, Sokolov, Surkova, Khakimov, Shestakov] IAE; [Dobretsov] MIFI; [Akhmanov] LYaP OIYaI TITLE: Asymmetry of the angular distribution of electrons in the decay $\pi^{\dagger} + \mu^{\dagger}$ in a magnetic field of 140,000 gauss SOURCE: <u>Hoscow. Institut atomnoy energii.</u> Doklady, IAE-620, 1954. Asimmetriya uglo-vogo raspredeleniya elektronov pi plus + mu plus + e plus respada v magnitnom pole napryazhennost'yu 140 000 gauss, 1-11 TOPIC TAGS: mu meson, pi meson, positron, bubble chamber, radioactive decay ABSTRACT: The universal V-A coupling theory applied to the determination of the angular distribution of electrons in the reaction $w^2 + \mu^2 + e^2$ is given by $\frac{dN}{d\theta} \sim 1 - a \cos \theta$ in terms of the parameter a. In order to obtain a value of a which depends on the polarization state of the meson, an experiment was performed showing the effect countering the depolarization of the dense medium through which the meson is moving. Cord 1/2 2

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•	AUTHOR: Akhmanov, Y. Y.; Ha Khakimov, S. Kh.; Shestakov, Zamolodchikov, B. I. TITLE: An arrangement for H	V. D.; Bobovikov, K. C.	alds of strengths up to	150		
	TITLE: An arrangement for I kilogauss	producing pulses h. 1965.	182-187			
V	kilogauss SOURCE: Pribory i tekhnika	c field, thyracion,	to brain .			
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BAZAROV, L.Sh.; DOBRETSOVA, I.L.; YUSUPOV, S.Sh.

Characteristics of the distribution of fluorine around a chamber pegmatite in granites. Dokl. AN SSSR 157 no.5: 1135-1138 Ag '64. (MIRA 17:9)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom V.S. Sobolevym.

DOBRETSOVA, L.A.

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Vegetation in the upper Mola (Charky) Valley. Nauch.soob. IAFAN SSSR no.2:79-88 '59. (MIRA 16:3) (Charky Valley-Vegetation and climate)

KARAVAYEV, M.N.; DOBRETSOVA, L.A.

and the second Brief outline of vegetation of the lower Nera Valley (upper Indigirka Basin). Bot.zhur. 49 no.11:1544-1559 N '64.

(MIRA 18:1) 1. Moskovskiy gosudarstvennyy universitet i Yakutskiy filial Sibirskogo otdeleniya AN SSSR, g. Yakutsk.

USSR/General and Systematic Zoology. Insects. Harmful P Insects and Acarids, Foddor Pests, Abs Jour : Ref Zhur - Biol., No 3, 1959, No 11609 : Rekach V.N., Dobretsova T.A. : Odossa Agricultural Institute Author Inst Titlo : Data on Pests of Seed Alfalfa and on Their Control in the South of the Steppe Zone. Orig Pub : Tr. Odessk. s.-kh. in-ta, 1957, 9, 50-58 Abstract : The principal pests of the 1st generation seed alfalfa are the alfalfa-leaf weevil and a complex (11 species) of bugs (B), the most harmful of which are the alfalfa and beet B (in some seasons of the years 1950-1954 either one or the other predominated). Other B species are considerably less numerous and less harmful. The biophenology and dynamics of the B species complex are presented. Card : 1/2 - 20 -

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USSR/General and Systematic Zoology. Insects. Harnful Insocts and Acardis, Fodder Pests.

Abs Jour : Ref Zhur - Biol., No 3, 1959, No 11609

It is reconnended to harvest the alfalfa for hay not later than the end of May (prior to develop-ment of the B wings), using a low cut and removing the mowed hay from the alfalfa field; at the appearance of considerable numbers of larvae on the seed alfalfa, a twofold treatment by DDT or BHC, after hatching of the larvae and before blossoning, is also recommended. Experiments have demonstrated the advantages of summer nidulate and wide-row alfalfa sowings. Biophenology, kynamics of the alfalfa-leaf weevil and measures for its control. 00 A.P. Adrianov

Card : 2/2

DOBRETSOVA, T.B.; LUTKOV, A.N.; MANTHOS, A.M.

Spontaneous polyploid and haploid suger beet forms among twin plants. Dokl. AN SSSR 160 no.2:454-417 Ja '65. (MIRA 18:2)

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1. Institut tsitologii i genetiki Sibirskogo otdeleniya All SSSR. Submitted May 30, 1964.

DOBRETSOVA, T.B.; LUTKOV, A.N.; MANZHOS, A.M.

Spontaneous polyploid and haploid forms of twin sugar beet plants. Dokl. AN SSSR 164 no.4:921-924 0 '65. (MIRA 18:10)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSI. Submitted July 20, 1964.

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Ξ¢. DOBREV, Asen, kand. na ikonomisheskite nauki

Improvement of the organization of labor wages and personal material interest. Trud tseni 6 no. 1: 52-64 '64.

1. Chlen na Redaktsionnata kolegiia, "Trud i tseni".

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DOBREV, A.; KARAIVANOV, P. 100

NULLINY, A.

Intra-osseous local novocaine anesthesia in surgery in children and adolescents. Khirurgiia, Sofia 10 no.1:74-76 1957.

1. Detski sanatorium -- momin prokhod Gl. lekar: St. Kravasv. (PROCAINE, analges is and anesthes is, intra-osseous in child. & adolescents (Bul))

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DOBREV, Ang.

Case of traumatic aneurysm of the femoral artery. Khirurgila, Sofia 9 no.3:269-270 1956.

(ARTERIES, FEMORAL, anourysm, traum. case (Bul)) (ANEURYSM, femoral artery, traum. case (Bul))

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DOBREV, A.; STOICHEVA-BOIKOVSKA, Iu. Rehabilitation of immobilized patients. Khirurgiia, Sofia 11 no.4:364-1. Detski sanatorium -- momin prokhod. G. lekar: D. Petrunov. (POLIOMYELITIS, surgery, myoplasty & orthopedic rehabil. (Bul))

CIA-RDP86-00513R000410610013-5


"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410610013-5

IANAKIEV, A., ingh.; DOBREV, D.; SOTIROV, VI.

Economic importance of fast heading for the development of the Gorbuso State Mining Enterprise, Min delo 17 no.8:3-4 Ag '62.

1. Durzhavno minno predpriiatie "Gorbuso".

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DOBREV, Dimitur

Linear operators defined in a convex and normalized cone. Godishnik fiz 55 no.1:77-81 '60/'61. (publ. '62)

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CIA-RDP86-00513R000410610013-5

IRAPARALLERV, M.; BOCHAROV, S.; KIROV, K.; DOEREV, D.

Clinical aspects and treatment of cancer of the prostate. Urologiia no.5:43-48 162. (MIRA 15:12) 1. Iz urologicheskogo otdeleniya (zav. M. Yenfedzhiyev) oblastnoy bol nitsy imeni Racho Angelova, Sofiya. (PROSTATE GLAND-CANCER)

PANGAROV, N.; DOBREV, D.

Predominant orientation of crystals in the electrolytically deposited iron. Doklady BAN 15 no.5:519-522 '62.

1. Submitted by Academician R. Kaishev.

PANGAROV, N.; DOBREV. D.

Predominant orientation of the crystals of electrolytically precipitated iron. Izy Inst fiz khim 2:101~116 %2.

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BOGDANOV, P.; DOBREV, D.; KOSSEV, R.; PIRYOVA, B.

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A method of measuring the blood pressure of man in a water environment. Dokl. Bolg. akad.nauk 17 no.1:93-95 164

1. Submitted by Academician D. Orahovats.

DOBREV, DIMITUR

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