Hotoelectric Nephelometer30%57-28-7-17/35is described and the volume correction is calculated.
The purification of the solutions is described. Finally
some provisional data are given in form of curves. Professor
V. N. Tsvetkov showed interest in this work. There are
b figures and 8 references, 5 of which are Soviet.AS30CLATION:Institut vysokomolekulyaraykh soyedinoniy AN SSSR, Leningrad
(Institute of High Molecular Compounds, AS USSR, Leningrad)1. Polymer solutions--Optical properties

Card 2/2

AUTHORS :	Eskin, V. Ye., Okuneva, M. G. 507/76-32-7-13/45
TITLE:	The Investigation of the Polydispersity of Polymers by Means of the Method of Light Scuttering (K voprosu ob izuchenii poli- dispersnosti polimerov metodom svetorasseyaniya)
PERIODICAL:	Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 7, pp.1532-1535 (USSR)
ABSTRACT :	In the present paper the authors tried to find out to which extent the theoretical derivations concerning the possibility of using the method suggested by Zimm (Ref 6) of obtaining qualitative data on the polydispersity of polymer samples are proved by experiments. The angular distribution of the light dispersion of solutions of a number of fractionated and not fractionated samples of polystyrene and mixtures was in- vestigated. Butanone was chosen as solvent, the angular dis- tribution being measured within the interval 30-150° by means of an apparatus already described, a photoelectric nephelo- meter. The values of the molecular weights M ₁ , M ₂ and M ₂ for the samples investigated are calculated from the obtained curves of the angular distribution of light dispersion with
Card 1/3	other factors being excluded. In experiments with two dif-

SOV/76-32-7-13/45The Investigation of the Folydispersity of Polymers by Means of the Method of Light Scattering

> ferent solvents, toluene and butanone, it was found that the initial inclination of the curve for toluene corresponds to a considerable increase of the dimensions of the macromolecule in this solvent. The experimental results of three fractionated mixtures are given graphically and in form of a table. A more or less clearly expressed polydispersity is shown by the curves. From the data may be seen that the determinations of the mean M and z-mean M molecular weights of the mixtures according to the light scattering agree satisfactorily with the values calculated, however, with respect to the value M the theory needs better precising. On the other hand the investigation of the curve shape of the angular distribution of the light dispersion of polymer solutions yields satisfactory results. There are 4 figures, 1 table, and 9 references, 4 of which are Soviet.

Card 2/3

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The Investigation of the Polydispersity of Polymers by Means of the Method of Light Scattering ASSOCIATION: Akademiya nauk SSSR, Institut vysokomolekulyarnykh soyedineniy, Leningrad, Institute of High Molecular Compounds, AS USSR) SUBMITTED: March 4, 1957 1. Styrene (Polymerized) solutions--Properties 2. Styrene (Polymerized) solutions--Analysis 3. Nephelometers--Performance 4. Light --Diffusion 5. Organic solvents--Performance

Card 3/3

ESKIN V.Ye.; KOROTKINA, O.Z.

Light scattering and viscosity of solutions of poly- β -vinylnaphthalene in benzene. Vysokom.soed. 1 no.11:1580-1585 N '59. (MIRA 13:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. (Naphthalene)

24(4), 24(1) SOV/51-6-5-9/34 AUTHORS : Eskin, V.Ye. and Baranovskaya, I.A. TITLE : Acoustic Double Refraction of Phenyl-Ethyl Alcohol at Low Temperatures (Akusticheskoye dvoynoye lucheprelouleniye fenil-etilovogo spirta pri nizkikh temperaturakh) PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 5, pp 616-619 (USSR) The authors measured viscosity and acoustic double refraction of phonyl-ABS TRACT: ethyl alcohol (C₆H₅CH₂CH₂OH). Viscosity was measured between +20 and . -37.5°C by the falling sphere method. Viscosity increases in this region of temperatures from 0.115 to 36.8 poises. Acoustic double refraction was measured by a method described earlier by Tsvetkov and Eskin (Refs 3, 5) at ultrasonic frequencies of 18.8 and 38.5 Mc/s at five temperatures: -29.5, -33.0, -34.0, -36.0, -37.5°C. The quantity measured in acoustic double-refraction studies was d, which is the angle of rotation of the analyser in the polarization photometer. The angle of, plotted as a function voltage V applied to the electrodes of the vibrating quartz plate, is shown in a figure on p 617 for temperatures of -37.5°C and -29.5°C. Benzine was used as the working liquid in which the quartz ultrasonic source and a small cell containing a millimetre thick layer of phenyl-sthyl alcohol were placed. The whole Card 1/3

SOV/51-6-5-9/34

Acoustic Double Refraction of Phenyl-Ethyl Alcohol at Low Temperatures

apparatus was thermally insulated and temperature was measured with a pentane thermometer. The acousti: double-refraction coefficient K is given by

 $K = bc\lambda a/l \omega^2 \eta m V$,

where $b = (\sqrt{2}/6.4) \ge 10^8$; c is the velocity of sound in phenyl-ethyl alcohol; λ is the wavelength of the light used in double refraction experiments (actually 5500 Å); ℓ is the path of the light beam in the ultrasonic field ($\ell = 1.6$ cm); ω is the frequency of ultrasonic vibrations; η is the viscosity of the liquid; m is the ratio of the acoustic impedences of quartz and benzine (m = 10); α is in radians and V is in e.s.u. units. The values of K are given in cols 3 and 4 of Table 1 for 18.8 and 38.5 Mc/s respectively. These values are all of the order of 10⁻¹¹. The relaxation time of molecular crientation τ in phenylethyl alcohol was calculated from

$$\tau = \frac{1}{\omega} \left(\frac{M^2}{K^2} - 1 \right)^{\frac{1}{2}},$$

where M is the dynamic double-refraction coefficient. The values of τ are given in cols 3 and 4 of Table 2 for 18.8 and 38.5 Mc/s respectively.

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SOV/51-6-5-9/34 Acoustic Double Refraction of Phenyl-Ethyl Alcohol at Low Temperatures These values range from 1.0 to 2.1 x 10^{-7} sec. Errors in determination of T were introduced because the quarte excillator are tone in the classical sector.

of τ were introduced because the quartz oscillator was tuned visually and, therefore, inaccurately. Determination of τ by a different method showed that the values of the relaxation time deduced using Eq (6) were too high by a factor of 2-4. It follows that, at -37.5°C, we should take $\tau = 5 \times 10^{-8}$ sec, instead of the mean value of 1.7 $\times 10^{-7}$ sec given in Table 2. The lower values of τ agree with those calculated from the dynamic double-refraction coefficient M and the data obtained by measurement of depolarization of light scattered in phenyl-ethyl alcohol. There are 1 figure, 2 tables and 9 references, 8 of which are Soviet and 1 English.

SUBMITTED: May 23, 1958

Card 3/3

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ESKIN, V.Ye.

Acoustic birefringence in a condensed (liquid) polymer. Vysokom. soed. 2 no.2:193-196 F '60. (MIRA 13:11)

1. Institut vysokomolekurlyarnykh soyedineniy AN SSSR. (Butadiene) (Sound waves)

SKIN, V.Ye.; GUMARGALIYEVA, K.Z.

Light scattering and viscosity of dichloro-substituted derivatives of polystyrene in an ideal solvent. Part 1: Poly-2,5-dichlorostyrene. Vysokom. soed. 2 no.2;265-271 F '60. (MIRA 13:11)

1. Institut vysokomolekulyarrvkh soyedineniy AN SSSR. (Styrene)

CIA-RDP86-00513R00041222

ESKIN, V.Ye.; KOROTKINA, O.Z.

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Might scattering and viscosity of poly- S-vinylnaphthalene solutions in an ideal solvent. Vysokom. soed. 2 no.2:272-278 F 460. (MIRA 13:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. (Naphthalene)

SKAZKA, V.S.; TSVETKOV, V.N.; ESKIN, V.Ye.

Asymmetry of the critical opalescence in polymer solutions. Vysokom. soed. 2 no.4:627-628 Ap '60. (MIRA 13:11) (Polymers)

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ESKIN, V.Ye.; MAGARIK, S.Ya.

Some pretransition phenomena in the vicinity of the critical temperature of mixing in the system polymer - solvent. Wysokom. (MIRA 13:8) soed. 2 no.5:806-807 My '60.

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. (Polymers)

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5.530D Author: TITLE:	87025 S/190/60/002/007/008/017 B020/B052 Eskin. V. Ye. Asymmetry of the Critical Opalescence in Solutions of Polystyrene in Cyclohexane	
PERIODICAL:	Vysokomolekulyarnyye soyedinenjya, 1960, Vol. 2, No. 7, pp. 1049-1055	
tively rarel, visible ligh coiled molec molecules wi interest, si weakly bent, traversed by cpalescence	es the X-ray small-angle scattering method which is compara- y applied, the measurement of the asymmetric scattering of t is the only direct method of determining the dimensions of ules in solutions. The dimension determination of macro- th molecular weights ranging from 10 ⁴ to 10 ⁵ , is of special nce in this range the transition takes place from solid, rod-shaped molecules to statically coiled molecules not the solvent. The author found the asymmetry of the critical in the system polystyrene - cyclohexane (Ref. 6). Former s. 6,7) obtained by measuring the asymmetry of the critical in solutions of very narrow fractions of polystyrene in	X

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041222

Asymmetry of the Critical Opalescence in Solutions of Polystyrene in Cyclohexane s/190/60/002/007/008/017 B020/B052

87026

cyclohexane, are interpreted in the present paper. The scattering asymmetry was measured by a photoelectric nephelometer (Ref. 8) at angles ranging from 25 to 150° . Cuvette and thermostat are described in Ref. 9. A common TC-15 (TS-15) circulation thermostat was used for thermostating. The wavelength of the light used, was 5460 A. The photoelectric nephelometer for determining the molecular weight was the same as above. The fractions used in the experiments were produced from the initial sample of polystyrene by two-stage fractionation. Fig. 1 shows the dependence

of the reciprocal scattering intensity of $1/I_{\odot}$ on $\sin^2\Theta/2$ (Θ representing the angle of scattering) for a solution of the fraction V-3 at two different temperatures (which differed from the critical mixing temperature by 1.1 and 1.3°C). Fig. 2 shows the dynamic birefringence in one solution of the fraction V = 3. Figs. 3 and 4 give the curves

 I_{Ω}^{-1} -(sin² $\theta/2$) for fractions V-9 and IX-3. These figures clearly show the

increase of the initial curve gradients when the critical mixing temperature is approached, and ΔT is reduced. Fig. 5 shows the determination of T_c by the extrapolation of quantity I_{1800}/I_{00} for zero for the solutions

Card 2/3

87026 Asymmetry of the Critical Opalescence in 8/190/60/002/007/008/017 Solutions of Polystyrene in Cyclohexane B020/B052 of fractions V-3 and IX-3. The table gives the values of c, T_c , and ΔT , the initial gradient $[I_{00}/I_{0})-1]/\sin^2\theta/2$, and the calculation results of $(n^2)^{1/2}$ (mean square distance between the ends of the coiled polymer), calculated from equation (4). The mean deviation of the values of $(\bar{h}^2)^{1/2}$ determined from the initial gradient, from the mean value, is 10%. The last column of the table gives the values $(\bar{h}_0^2)^{1/2}$ of the dimensions of the coiled polystyrene in the solution, in the absence of volume effects. The specific viscosity of the polystyrene in cyclohexane, measured near T_c , is by 25% lower than in the θ point of the system (at 34.0°C). There are 5 figures, 1 table, and 13 references: 7 Soviet and 6 US. ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy AN SSSR (Institute of High-molecular Compounds of the AS USSR) SUBMITTED: March 12, 1960 Card 3/3

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041222

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S/069/60/022/01/020/025 D034/D003

AUTHOR: Eskin, V.Ye.

- TITLE: Dependence of the Second Virial Coefficient of Polymer Solutions, as Determined by the Light Scattering Method, Upon the Scattering Angle
- PERIODICAL: Kolloidnyy zhurnal, 1960, Vol XXII, Nr 1, pp 117-119 (USSR)
- ABSTRACT: The author reports on an investigation, which, in contrast to existing theories, proved, for certain systems, the increase of the second virial coefficient with the growth of the scattering angle Θ , Graph 1 gives the measuring results of the angle distribution of light scattering of high-molecular (M \approx 25.10⁶) polyparatertiarybutylphenylmethacrylate solutions in acetone. The author investigated the solutions of five concentrations from 0.036 to 0.006 g/100 ml. In the graph the

Card 1/2

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Dependence of Determined by	the Second Virial Coefficient of Polymer Solutions, as the Light Scattering Method, Upon the Scattering Angle	
	more than fivefold increase of A_2 during the change of the angle (T) from 30 to 1409	
	2 gives the analogous measurings of light scattering of poly- β -vinylnaphthalene (M=3.5°10°) solutions for five concentrations from 0.088 to 0.012 g/100 ml in benzene. In this case A ₂ increases within the same angle inter	\bigcirc
	val a little less than three times. The angle distri- bution of the light scattering was measured with a photoelectric nephelometer <u>C</u> Ref. 4 <u>7</u> . The author also offers a qualitative explanation of the observed pheno- menon. There are 2 graphs and 9 references, 5 of which are English, 2 Soviet, 1 German and 1 French.	
IIIIIOI IAIION	Grad (Institute of High Molecular 6	
SUBMITTED: Card 2/2	USSR, Leningrad) July 18, 1958	

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ESKIN, V.Ye.; ANDREYEVA, L.N.

Light scattering and viscosity of dichloro-substituted polystyrene in an ideal solvent. Part 2: Poly-3, 4-dichlorostyrene. Vysokom. soed. 3 no.3:435-440 Mr '61. (MIRA 14:6)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. (Styrene) (Polymers--Optical properties)

TSVETKOV, V.N.; ESKIN, V.Ye.; SKAZKA, V.S.

Asymmetry of critical opalescence in polymer solutions. Ukr. fiz. zhur. 7 no.8:923-927 S '62. (MIRA 16:1)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningradskiy universitet.

(Polymers) (Solution (Chemistry))

S/020/62/142/004/020/022 B101/B110

AUTHOR: Eskin. V. Ye.

TITLE: Relation between molecular weight, second virial coefficient, and dimensions of polymer balls in a good solvent

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 4, 1962. 881 - 883 TEXT: The relations between molecular weight, M, second virial coefficient, A_2 , the diameter, $(h^2)^{1/2}$, of the molecule ball, and the coefficient of swelling, α , found on the basis of thermodynamic theoretical conceptions. are discussed. The function $\Psi(\alpha)$ derived on the basis of the theory by Flory-Orofino (Ref. 1, see below), Casassa - Markovitz (Ref. 2, see below), and O. B. Ptitsyn, Yu. Ye. Eyzner (Vysokomolekulyarn soyed., 1, 1200 (1959)) was compared with experimental data (Fig. 1). The light scattering in poly-2,5-dichloro styrene (M = $3.5 \cdot 10^6 - 19.6 \cdot 10^6$), dissolved in dioxane, was measured by means of photoelectric nephelometer, and $(h^2)^{1/2}$, A_2 , and α were determined besides M. The following function is derived: $\Psi(\alpha) = \frac{3^{3/2}A_2}{M^2/2^{1/2}\pi^{3/2}N_A}(h^2)^{3/2}$ (N_A = Avogadro's number). The

s/020/62/142/004/020/022 B101/B110 Relation between molecular weight experimental data are close to the Casassa - Markovitz curve. For the light scattering of polystyrene ($M = 20 \cdot 10^{\circ}$) in toluene or cyclohexane. $\alpha = 2.4$; $\Psi(\alpha) = 0.30$ was found which also lies below the Flory-Orofino curve. It follows that the theoretical assumption that $(h^2)^{1/2}$ does not depend on the nature of the (good) solvent contradicts the experimental data. Therefore, a more accurate definition of a is required. An entirely different course of the function $\Psi(\alpha)$ may result therefrom, and the function may lose its universal character. There are 1 figure and 12 references: 7 Soviet and 5 non-Soviet. The three references to English-language publications read as follows: Ref. 1: T.A. Orofino, P. J. Flory, J. Chem. Phys., 26, 1067 (1957); Ref.2: E Onsassa, H.Markovitz, J. Chem. Phys., 29, 493 (1958); B. H. Zimm, J. Chem. Phys., 16, 1099 (1948). ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute of High-molecular Compounds of the Academy of Sciences USSR) September 26, 1961, by S. S. Medvedev, Academician PRESENTED: SUBMITTED: September 14, 1961 Card 2/2

. . .	山267 s/190/63/005/001/001/020 в101/в186
15.8100 Authors:	Tsvetkov, V. N., Magarik, S. Ya., Klenin, S. I., Eskin, V. Ye.
TITLE:	Synthesis of graft copolymers. II. Dimensions, contract and optical properties of the macromolecules of the graft
TEXT: Polys methacrylate copolymer co average-weig light scatt low-molecula of the copo According t 1553, 1945)	methyl methactylate of Vysokomolekulyarnyye soyedineniya, v. 5, no. 1, 1963, 3 - 10 Vysokomolekulyarnyye soyedineniya, v. 5, no. 1, 1963, 3 - 10 tyrene of molecular weight $\approx 2 \cdot 10^3$ was grafted on polymethyl on molecular weight $7 \cdot 10^4$. Refractometric examination of the omposition showed the molar part of polystyrene to be 0.9. The omposition showed the molar part of polystyrene to be 0.9. The optical arweight of $\approx (0.5 0.6) \cdot 10^6$ was determined by ght molecular weight of $\approx (0.5 0.6) \cdot 10^6$ was determined by ar components to be no more than 5-10%. The optical anisotropy ar components to be no more than 5-10%. The optical anisotropy lymer was determined by flow birefringence in bromoform. lymer was determined by flow birefringence (a 1943; 28, 0 W. Kuhn and H. Kuhn. (Helv. chim. acta, 26, 1394, 1943; 28, 0 W. Kuhn and H. Kuhn. (Helv. chim. acta, 26, 1394, 1943; 28,
Card 1/2	

polarization for polymethy polystýrene-i theoretical o methyl methac $(\alpha_1-\alpha_2)$ is +2 is 40 and whe value, which chain stiffne Conclusion: T	S/190/63/005/001/001/020 graft copolymers. II B101/B186 capacities of one macromolecular segment of the copolymer; 1 methacrylate, this value is $(2 - 20) \cdot 10^{-25} \text{ cm}^3$, and for t is $-(140 - 200) \cdot 10^{-25} \text{ cm}^3$. Based on Kuhn's theory, the alculation of the anisotropy of one segment of the principal rylate chain with short graft polystyrene chains, proved that $20 \cdot 10^{-25} \text{ cm}^3$, when the polystyrene polymerization coefficient n the molar part of polystyrene is 0.9. The experimental is four times as high, is explained by the fact that the ss of the graft copolymer is higher than that of nomopolymers. he optical anisotropy of a branched polymer may differ from the anisotropy of its components. There are 5 figures	, , , , , , , , , , , , , , , , , , , ,
ASSOCIATION:	Institut vysokomolekulyarnykh soyedineniy AN SSSR (Institute of High-molecular Compounds AS USSR)	
SUBMITTED:	July 1, 1961	
Card 2/2	7	

ESKIN, V, Ye.; VOLKOV, T.I.

Light scattering and viscosity of poly -2,5-dichlorostyrene solutions in dioxane. Vysokom.soed. 5 no.4:614-621 Ap '63. (MIRA 16:5) 1. Institut vysokomelekulyarnykh soyedineniy AN SSSR. (Styrene polymers--Optical properties) (Viscosity)

AUTHOR: Ea	kin, V. Ye.			73
				69
TITLE: Phy	sics and chemistry	of high-molecular co	mpounds (Conference	in Leningrad)
Source: An	SSSR. Vestnik, no.	7, 1963, 111-113		
		mpound , polymerizat cs, macromolecular s		
		the <u>10th annual conf</u>		
Molecular C	ompounds of the Aca	demy of Sciences, SS	SRAWape reported.	It was held
		llaborators of scien . Koton, director of		
		the conference, nam		
		lines of studies:		
		and formation of fi		
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tions of nu	cleic ecids in micr ns in polymers as r	elated to structure,		

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of polymers on the above-molecular level. The subsequent work of the conference was conducted in sections. Sessions on fiber structure were devoted to physical-chemical processes in the formation of polyvinylalcohol fibers and the structure of callulose fibers. At the section on fiber-forming polymers and materials papers were presented on the synthesis and properties of alpha-methylacrolein and polyvinylformste, as well as on the synthesis of high-molecular polyvinylenecarbonate. 7 At the biopolymer and polyelectrolyte section much attention was devoted to sorphion 7 and chromatography, and great interest was shown in sorption of proteins as related to their structural alterations. A number of problems of molecular biology were discussed at the biopolymer section, with emphasis on DNA and FNA. At the section on kinetics and mechanism of polymerization the paper by Korotkov on the mechanism of catalytic polymerization was discussed. The author's theory is that the centers of polymerization are the complex compounds, where the growth of the polymeric chain is taking place (due to internal coordination isomerization). Additional reports dealt with free redicel polymerization and the role of peroxides in polymerization by alkyl aluminum compounds. The section on the structure of macromolecules heard papers on the investigation of conformational properties of macromolecules by various techniques, including double refraction in flow, polarization luminescence, and spectroscopy. At the section on relexation phenomena in polymers the discussions were concerned with internal mobility in molecular chains, studied

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Card 3/3				

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ESKIN, V.Ye.; NESTEROV, A.Ye.

Scattering asymmetry and the development of fluctuations in solution which do not separate into layers. Dokl. AN SSSR 152 no.6:1403-1444, 0 '63. (MIRA 16:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. Predstavleno akademikom A.A. Lebedevym.

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L 10433-66 EWA(j)/EW ACC NR: AM5011706	S BOOK EXPLOITATION	UR
TSvetkov, V.N.; Eskin,	V.Ie.; Frankel', S.Ya.	đ
Churchuma of meanomole	cules in solutions (Struktura ka," 1964, 719 p. illus., tab	makromolekul v rastvorakh), 72 oles, diagm., biblio., index. 2
TOPIC TAGS: macromole macromolecular dynamic	cular synthetic polymer, macro e and optic, structure in solut	omolecular structure, tion, physical properties
properties of macromol sedimentation, and dyn of the indicated invest molecular weight deten their configurations, stereoregularity and authors acknowledge the <u>I.N.</u> ; and other co-wor emy of Sciences of the Akademii Nauk SSSR).	manic double refraction. This stigation methods to a series of mination, molecular weight did structures, branching, deform the analysis of the copolymer of the analysis of the copolymer of the contributions of Baranov, V ckers of the Institute of Macri USSR (IVS AN SSSR Institut ¹⁴⁴ This book is designed for a w	book discusses the application of concrete and important problem stribution, macromolecule sizes,
		UDC:539.199

and advanced students at higher educational institutions specializing in the indi- cated sciences. TABLE OF CONTENTS [abridged]: Foreword 9 Introduction on 11	 Ch. I. Structural properties and thermodynamic behavior of macromolecules in solution 14 Principles of the static theory of linear polymer chains 14 Some thermodynamic properties of solutions of chain macromolecules 44 Structural properties of polyelectrolyte macromolecules and of polymers of biologic origin 65 Bibliography 90 Ch. II. Viscosity 93 Bibliography 200 Ch. III. Light scattering in solutions of polymers (- 205) Principles of the theory 205 Methods of measuring light scattering 246 	L 10433-		7
<pre>cated sciences. TABLE OF CONTENTS [abridged]: Foreword 9 Introduction 11 Ch. I. Structural properties and thermodynamic behavior of macromolecules in solution 14 1. Principles of the static theory of linear polymer chains 14 2. Some thermodynamic properties of solutions of chain macromolecules 44 3. Structural properties of polyelectrolyte macromolecules and of polymers of biologic origin 65 Bibliography 90 Ch. II. Viscosity 93 Bibliography 200 Ch. III. Light scattering in solutions of polymers {- 205 1. Principles of the theory 205 2. Methods of measuring light scattering 246</pre>	<pre>cated sciences. TABLE OF CONTENTS [abridged]: Foreword 9 Introduction 11 Ch. I. Structural properties and thermodynamic behavior of macromolecules in solution 14 1. Principles of the static theory of linear polymer chains 14 2. Some thermodynamic properties of solutions of chain macromolecules 44 3. Structural properties of polyelectrolyte macromolecules and of polymers of biologic origin 65 Bibliography 90 Ch. II. Viscosity 93 Bibliography 200 Ch. III. Light scattering in solutions of polymers 1- 205 1. Principles of the theory 205 2. Methods of measuring light scattering 246 Bibliography 270</pre>			1
Foreword 9 Introduction 11 Ch. I. Structural properties and thermodynamic behavior of macromolecules in solution 14 1. Principles of the static theory of linear polymer chains 14 2. Some thermodynamic properties of solutions of chain macromolecules 44 3. Structural properties of polyelectrolyte macromolecules and of polymers of biologic origin 65 Bibliography 90 Ch. II. Viscosity 93 Bibliography 200 Ch. III. Light scattering in solutions of polymers (- 205 1. Principles of the theory 205 2. Methods of measuring light scattering 246	Foreword 9 Introduction 11 Ch. I. Structural properties and thermodynamic behavior of macromolecules in solution 14 1. Principles of the static theory of linear polymer chains 14 2. Some thermodynamic properties of solutions of chain macromolecules 44 3. Structural properties of polyelectrolyte macromolecules and of polymers of biologic origin 65 Bibliography 90 Ch. II. Viscosity 93 Bibliography 200 Ch. III. Light scattering in solutions of polymers (- 205 1. Principles of the theory 205 2. Methods of measuring light scattering 246 Bibliography 270	and advand cated sci	ed students at higher educational institutions specializing in the indi- ences.	
Introduction 11 Ch. I. Structural properties and thermodynamic behavior of macromolecules in solution 14 1. Principles of the static theory of linear polymer chains 14 2. Some thermodynamic properties of solutions of chain macromolecules 44 3. Structural properties of polyelectrolyte macromolecules and of polymers of biologic origin 65 Bibliography 90 Ch. II. Viscosity 93 Bibliography 200 Ch. III. Light scattering in solutions of polymers (- 205 1. Principles of the theory 205 2. Methods of measuring light scattering 246	<pre>Introduction 11 Ch. I. Structural properties and thermodynamic behavior of macromolecules in solution 14 1. Principles of the static theory of linear polymer chains 14 2. Some thermodynamic properties of solutions of chain macromolecules 44 3. Structural properties of polyelectrolyte macromolecules and of polymers of biologic origin 65 Bibliography 90 Ch. II. Viscosity 93 Bibliography 200 Ch. III. Light scattering in solutions of polymers 205 1. Principles of the theory 205 2. Methods of measuring light scattering 246 Bibliography 270</pre>	TABLE OF	OWIENIB [abridged]:	
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ESKIN, V.Ye.; BARANOVSKAYA, I.A.; LIFMANOVICH, A.D., TOPCHIEF, A.V. [doceased]

Composition inhomogeneity and fractionation of styrene coperamer with methyl methacrylate. Vysokom, soed, 5 no. 5: 8%-900 = 7 '64. (MIDA 17:6)

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Structure of Moscow, Iz	M.; Eskin, V.Ye.; Frankel', S.Ya." macromolecules in solutions (Struktura makron td-vo "Nauka," 1964, 719 p. illus., tables, c les printed.	holekul v rastvorakh), 17 liagm., diblio., index. 2
TOPIC TAGS:	macromolecular synthetic polymer, macromolecular dynamic and optic, structure in solution, j	alar structure, hysical properties
properties of sedimentation of the indices molecular wei their configu stereoregular authors ackno <u>I.N.</u> ; and oth emy of Science Akademii Nauk	OVERAGE: This monograph is devoted to the hy macromolecules. To the latter belong: visc and dynamic double refraction. This book of the investigation methods to a series of con- ght determination, molecular weight distribut wrations, structures, branching, deformability ity and the analysis of the copolymer composi- wledge the contributions of Baranov, V.G.; Ko her co-workers of the Institute of Macromolecu es of the USSR (IVS AN SSSR Institut ¹⁴ Vysokom SSSR). This book is designed for a wide cir working in the field of physics, chemistry,	besity, light scattering, discusses the application erete and important problems ion, macromolecule sizes, , internal mobility, tion, heterogeneity. The protkina, 0.2.7; Shtennikova, dar Compounds of the Acad- kolekulyarnykh Soyedineniy cle of scientific workers
and technolog	y of synthetic and biologic polymers / as well 44.56	as for the teaching staff

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-----L 10433-66 and advanced students at higher educational institutions specializing in the indi-AM5011706 cated sciences. TABLE OF CONTENTS [abridged]: Ch. I. Structural properties and thermodynamic behavior of macromolecules in Foreword -- 9 1. Principles of the static theory of linear polymer chains -- 14 2. Some thermodynamic properties of solutions of chain macromolecules -- 44 solution -- 14 3. Structural properties of polyelectrolyte macromolecules and of polymers of biologie origin -- 65 Bibliography -- 90 Ch. II. Viscosity -- 93 Bibliography -- 200 Ch. III. Light scattering in solutions of polymers -1. Principles of the theory -= 205 2. Mothods of measuring light scattering -= 246 Bibliography -- 270 Card 2/4
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AUTHOR: Baranovskaya, I. A.; Litmanovich, A. D.; Eskin, V. Ye.; Protasova, H. S.	
TITLE: Composition heterogeneity of styrene methyl methacrylate copolymers	
sance: Vysokomolekulyernyye noyadinentys, v. 6, no. 8, 1964, 1541	
 TOFIC TAGS: macromolecular chemistry, polystyrene, acrylic plastic //	
is the maximum inhomogeneous in the case of $P \neq 0$ was investigated. The second mers with $M_A = M_b = M_w$) in the case of $P \neq 0$ was investigated. The second mers with $M_A = M_b = M_w$) in the case of $P \neq 0$ was investigated. The second second mers with $M_A = M_b = M_w$) in the case of $P \neq 0$ was investigated. The second second mers is an $P < 0$, Q_{max}/Q^0_{max} case of $P \neq 0$ and $P < 0$, Q_{max}/Q^0_{max} and Q^0_{max} must be considered indicating that the difference between Q_{max} and Q^0_{max} must be considered indicating that the difference between Q_{max} and Q^0_{max} must be considered when $P/P_{max} > 0.1$ (for $P > 0$). The degree of composition inhomogeneity when $P/P_{max} > 0.1$ (for $P > 0$). The degree of styrene with methyl of Q/C_{max} of samples of statistical copolymers of styrene with methyl of Q/C_{max} of samples of statistical copolymers conditions: in bulk, in benzene	
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the light-scattering method. The inhomogeneity found (espension) is synthesized at low degrees of conversion) exceeded on the basis of kinetic concepts by one to two orders of ma Orig. art. has: 2 formulas, 1 graph.			
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Improvement of Peaker's photoelectric nephelometer. Prib. i tekh. eksp. 9 no.5:178-179 S-0 '64. (MIRA 17:12)

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> properties of marrenclecules of graft polymers of butyl streamylate and methyl methacrylate with styrene. Vysokom. soed. 7 ho.5:884-890 My 165. (011A 18:9)

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ESKIN, V.Ye.; IZYUMNIKOV, A.L.; ROGOZHKINA, Ye.D.; VYRSKIY, Yu.P.

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Light dispersion by the solutions of native, denaturated and destructured deoxyribonucleic acid. Biofisika 10 no.1:26-31 '65. (MIRA 18:5)

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ANUFRIYEVA, Ye.V.; VOLCHEF, B.Z.; ILLARIONOVA, N.G.; KALIKHEVICH, V.N.; KOROTKINA, O.Z.; MITIN, Yu.V.; PTITSYN, O.B.; PURKINA, A.V.; ESKIN, V.Ye.

Synthesis of poly-S-carbobenzoxymethyl-L-cysteine and the study of its structure. Biofizika 10 no.2:346-347 '65. (MIRA 18:7)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041222 AUTHOR: WW/RM 44,53 Korotkina, Institute for High Molecular Compounds AN SSSR (Institute for Viscoland) Scientific Regearch Institute for Plant ORG: UKG: <u>Institute for High Molecular Compounds AN SSSR'(</u>Institut Vysokomo-lekulyarnykh soedineniy <u>AN SSSR)</u> <u>Scientific Research Institute vysokomo-</u> <u>Pathology ASKhN UkrSSR (Nauchno-issledovatel'skiy institute for Plant</u> <u>rasteniy ASKhN UkrSSR)</u> <u>Viso</u> TITLE: scattering SOURCE: Zhurnal prikladnoy khimii, v.38, no.11, 1965, 2533-2537 TOPIC TAGS: nitrogen compound, light scattering, polymerization by the method of light ABSTRACT: The object of the work was to establish a relationship be-tween the characteristic <u>Viscosity</u> N, and the molecular weight be-high molecular weight polyacrylamide using the method of light scattertween the characteristic viscosity / , and the molecular weight, M, for high molecular weight polyacrylamide using the method of light, M, for acrylamide was carried out in an oxidation-reduction dof light scatter-ous medium in the presence of 0.5% potassium persulfate. 0.25% sodium acrylamide was carried out in an oxidation-reduction system in an aque ous medium in the presence of 0.5% potassium persulfate, 0.25% sodium hydrosulfate, and 0.14% triethanolamine, and in the presence of sodium pherio oxygen. The polymerization?temmerature was 500 for the first tw hydrosulfate, and 0.14% triethanolamine, and in the presence of atmos-pherio oxygen. The polymerization?temperature was 500 for the first two hours, and then 600 for eight hours, The polymer was obtained as an 84

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ACC NR: AP5028914 SOURCE CODE:	UR/0020/65/165/003/0623/0625
AUTHOR: Eskin, V. Ye.; Nesterov, A. Ye.	of Sciences SSSR (Institut 23 B
ORG: Institute of High Molecular Compounds, Academy	of Sciences SSSR (Institut 23
vysokomolekulyarnykh soyedineniy Akademii nauk SSSR)	de la companya
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TITLE: The magnitude of the cohesion energy of certain	n polymers
SOURCE: AN SSSR. Doklady, v. 165, no. 3, 1965, 623	-625
TOPIC TAGS: polymer physical chemistry, intermolect	ular force
ABSTRACT: Debye proposed a method (J. Chem Phys., of the mean radius 1 of the action of intramolecular force measured asymmetries of the critical opalescence. Acc et al., J. Chem. Phys., 36, 1803, 1962), the quantity 1 \mathbb{R}^2 of the inertia of polymeric coils within the solution (a critical temperature T _k) and on the cohesion energy den solvent-solvent (\S_{11}), and polymer-solvent (\S_{12}) comb be determined separately, they can be used for the deter present authors carried out the determination of the mol the results are summarized in Table 1.	ces in polymer solutions based on the cording to the same author (P. Debye l^2 depends on the mean square radius (at critical concentration and near the nsity for the polymer-polymer (S_{22}), binations. Since l^2 , R^2 , and S_{11} may prmination of S_{22} and S_{12} . The
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KOROTKINA, O.Z.; MAGDINETS, V.V.; SAVITSKAYA, M.N.; ESKIN, V.Ye.

Study of the properties of polyacrylamide by the light scattering method. Zhur.prikl.khim. 38 no.ll:2533-2537 N '65. (MIRA 18:12)

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ESKIN, V. Ye.; NESTEROV, A. Ye.

Scattering of light and viscosity of polypropylene sulfide solution in benzene. Vysokom. soed. 8 no. 1:141-145 Ja '66. (MIRA 19:1)

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KRIVISOV, Boris Fanteleymonovich; SHAFIRO, Il'ya Grigor'yevich, inzh.; ESKIN, Ya.D., nauchn. red.; LAFAZAN, M.I., red.

> [Laying tiles, mosaics, and "xyloliths."] Plitochnye, mozaichnye i ksilolitovye raboty. Izd.3., perer. i dop. Moskva, Vysshaia shkola, 1964. 301 p. (MIRA 17:7)

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ESKIN, Ya.D., inzh.; GOBYACHEV, V.I., inzh.; EYDINOV, Yu.S., inzh., nauchn. red.

[Finishing operations on the construction of an experimental building; experience of the "Mosotdelstrol" Trust Ne.3 of the Main Division for Housing and Civil Construction in the City of Moscow] Otdelochnye raboty na stroitel'stve eksperimental'nogo zdania; opyt tresta "Mosotdelstroi" No.3. Glavecostroia. Moskva, Stroiizdat, 1965. 31 p. (MIRA 18:9)

1. Glavnyy inzhener tresta "Mosotdelstroy" No.: Glavnogo otdeleniya po zhilishchaqua i grazhdanskomu stroitel'stvu v gorode Mostal (1997) 2. Nachal'nik tekhnicheskogo otdela tresta "Mosotdelstroy" No.3 Glavnogo otdeleniya po zhilishchnomu i grazhdanskomu stroitel'stvu v gorode Moskve (for Goryachev).

S0V/135-59-10-19/23

18(5) AUTHOR: Eskin, Ye.M.

TITLE: More Attention to Soldering When Preparing Welding Specialists

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 10, p 43 (USSR)

ABSTRACT: The author states that technical education in the Soviet Union is neglecting training in the fields of soldering. Several fields of machine engineering are mentioned, where soldering is needed. The author proposes that the technical faculties should include courses on soldering in their program.

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ESKIN, Yu. The Tula housing construction combine acts... Na stroi. Ros. 3 no.1:32 Ja '62. (MIRA 16:5) 1. Nachal'nik upravleniya promstroymaterialov Tul'skogo soveta narodnogo khozyaystva. (Tula Province--Concrete plants) (Tula--Apartment houses)

TUKHMANYANIS, A.A.; SHAKHURINA, Ye.A.; ESKINA, G.V.

Ecology of Musca larvipara (Portsch, 1910), intermediary host of Thelazia rhodesi (Desmarest, 1827) occuring in cattle. Uzb.biol.zhur. 7 no.2157-62'63. (MIRA 16:8)

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	Comparison and Verschiller
	Etiology of the outbreak of leptospirosis in Grodekovo and Voroshilov
	Districts, Maritime Territory, in 1948. Izv. Irk. gos. protivochum.
	MIRA 10:12)
	(GRODEKOVO DISTRICTLEPTOSPIROSIS)
	(VCROSHILOV DISTRICT LEPTOSPIROS IS)

• ÷	CCESSION NR: AP4040467 S/0226/64/000/003/0016/0022
AL	THOR: Bal'shin, M. Yu.; Ry*bal'chenko , H. K.; Padalko, O. V.; kina, N. P.
TI	TLE: Some problems of fiber metallurgy
S O	URCE: Poroshkovaya metallurgiya, no. 3 (21), 1964, 16-22
TO	PIC TAGS: metal fiber, fiber compacting, fiber sintering, fiber tallurgy, metal felt, copper fiber, fiber structure, fiber compact operty, molybdenum fiber
fei Spe was the	STRACT: The properties of copper obtained by compacting and sinter- g of fibers 100 μ in diameter and 10-15, 5-8, and 2-4 mm in length we been studied. Test specimens were prepared by compacting copper lt obtained by filtration of a copper fiber suspension in glycerin. ecimens were then sintered in hydrogen at 980C for two hours. It sound that specimens made of fibers 10-15 and 5-8 mm long had same strength, while specimens made of fibers 2-4 mm long had sound that strength. Therefore, further experiments were conducted
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with fibers 5-8 mm long. Fibers compact better than powders; for instance, the porosity of powder specimens compacted under a pressure of 20 to 30 dan/mm² varied from 36 to 26%, while fiber compacts made under the same pressure had a porosity of 30 to 20%. Fiber compacts, however, show much greater spring-back than powder compacts. After repeated compacting and sintering, the strength of fiber compacts is 31 dan/mm² compared with 22-24 dan/mm² for cast or sintered copper. Compacts made of fibers 50 µ in diameter have even higher strength. The impact strength of fiber compacts decreased with increasing tensile strength, with the same porosity, and varied from 0.62 to 2.5 kgm/cm². Copper fiber compacts impregnated with bakelite have a tensile strength 2-4 dan/mm² higher, but an impact strength 0.1-0.2 kgm/cm² less than unimpregnated compacts. Some experiments were also conducted with molybdenum fibers 50 µ in diameter. Molybdenum fiber compacts were found to have an impact strength of 1.40---1.58 kgm/mm²; that is, several times higher than powder compacts. Orig. art. has: 6 figures, 3 tables, and 2 formulas. ASSOCIATION: Institut metallurgii im. A. A.Baykova (Institute of Metallurgy imeni Baykov) Cord 2/3

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ESKINGER, Dragoslav SURNAME (in caps); Given Names Country: Yugoslavia

Academic Degrees: / not given/

Affiliation: _ not given/

Source: Belgrade, Vasiona, No 4, 1960, pp 116-118.

Data: News and Notes: "250 Yeats form the Death of the Danish Astronomer Olaf Roemer", "One Hundred Years from the Foundings of the Tapada Observatory /Portugal / ", "Darkening of Sun's Edge Determined from the Brightness Curve During the Ring Phase of the Ring Eclipse of the Sun on April 19, 1958", "Improvements in Photography of Celestial Bodies", "Died Ser Harold Spenser Jones", "Fifty Years from the Death of Govani Sciaparelli."

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Rearing queen bees. p.468

SOTSIALISTLIK POLLUMAJANDUS. Tallinn, Estonia, Vol. 14, no. 10, May 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959 Uncl.

FS Ko, H.V.

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ESKO, L.I.; YELISEYEVA, O.N.

Hydrological service of the Tartu station to commercial organizations. Meteor. i gidrol. no.10:38-40 0 '63. (MIRA 16:11) 1. Gidrologicheskaya stantsiya Tartu, i Sektor gidrologicheskikh prognozov Tallinskogo byuro pogody.

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ES'KOV, Konstantin Andreyevich; MASLOV, Yu.A., inzh., red.; DUGINA, N.A., tekhn. red.

> [Gas welding and cutting] Gazovaia svarka i rezka. Moskva, Mashgiz, 1961. 35 p. (Nauchno-populiarnaia biblioteka rabochego-svarshchika, no.14) (MIRA 15:3) (Gas welding and cutting)
ES'KOVA, M.P. Comparative economic effectiveness of basing the North Atlantic herring fleet on northern and Baltic ports. Trudy sov. Ikht. kom. no.10:245-248 '60. (MIRA 13:10) 1. Baltiyskiy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii-(BaltNIRO). (Atlantic Ocean-Herring fisheries) (Russia, Northwestern--Harbors)

CIA-RDP86-00513R00041222

ESKREXS, Andreej

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ESKREVS, Andrzej

Institute of Muclear Research, Depentment VI (Instytut Badan Jadrowych Zaklad VI), Grakow Voltt Grakew, <u>Pestony Pizyki</u> Wie 4, 1963, pp 185-54. "Present State of Research on Reutrino Reactions".

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	ACCESSION NR: AP404	3036	P/0046/64/0	09/02-/0189/0193
	AUTHOR: Bardadin, M	; Bartke, J.; Es	kreys, A.; Ziel	inski, W.
	TITLE: The emission	of neutrons in'm	-p interactions	at 10 Bev
:	SOURCE: Nukleonike,	v. 9, no. 2-3, 1	964, 189-193	
+ - + -	TOPIC TACS: neutron energy interaction	emission, pi mes	on, proton; int	eraction, high
	ABSTRACT: The emiss was studied by scann beam camera) exposed To eliminate most of following criteria: did not exceed 90°; of "neutral secondar; 74 stars associated forward hemisphere of	ing 32,000 photog to the 10-Bev w" the background, 1) The angle of 2) the distance r y interaction" di with "neutral int	raphs (from the beam of the CE events were che emission of a " between the st d not exceed 7 eractions" and	80-cm horizontal RN accelerator. cked against the neutral particle" ar and the apex cm. A sample of
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ACCESSION NR: AP4043036

and "background" were statistically separated by their dependence on r, with 39.6 ± 11.5 events assumed to be "true events." Two additional criteria were used: there should be no proton among the secondary tracks of the "primary star" and in one-prong interactions where the observed track is a proton, also its angle with the line of flight of the "neutral particle" should be compatible with the kinematics of an n-p collision. The LS angular distribution of neutrons was found to be strongly peaked forward. The momentum distribution of neutrons was determined, then the CMS angular distribution was determined, indicating an upper limit for the neutrons emitted forwards in the CMS as $\leq 23\%$. With a probability of emission of a neutron from a star $a = 0.5 \pm 0.2$, neutrons are emitted in about 50\% of π -p collisions at 10 Bev. In the discussion, M. Bardadin mentioned the occurrence of an inelastic hyperon interaction -- an inelastic Λ° interaction with a proton

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Orig. art. has: 06 figures.

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APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041222(

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Sixth Laboratory, Institute for Nuclear Research (Instytut Badan Jadrowych - Zaklad VI), Crakow

Crakow, Postepy fizyki, No 3, May-June 1965, pp 257-278

"Reaction of π mesons with nuclei in the field of accelerator energies."

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FSLEGR, V.

"Shifting forces acting in the slide valves of hydraulic-copying systems and its effect on dampers." p. 203.

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ESLINGER, YU.V. I FORTUMATOV, M.A.

25166 Eslinger, Yu.V. I Fortunatou, M.A. Rybokhozyaystuennaya Melioratalya I Evolotelya Lel't Amu-Dar'I I Syr-Dar'I. Ryb. Fhoz-Vo, 1947, No. 8, 5. 16-22

SO: Letodis' No. 33, 1949

ESLINGER, Yo.V. BEZDENEZHNYKH, G.; KONOVALOV, P.M.; ESLINGER, Yu.V. Con.rolled spawning of Aral fish. Vop.ikht. no.1:63-67 '53. (WLEA 7:6) 1. Rybovodno-biologicheskaya laboratoriya Aralrybvoda. (Fish culture)

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ESLIMORE, MU. V.

5762. Onyt no vyrashch-ivaniyu molodi se¥ryuri v gruntovykh basseicakh sistemy aralyrb¥oda. K., Pishchepromizdat, 1954. 205. s ill. 20 sm. (X-Vo rybnov prom-sti SSSR. Tekhn upr. obmen peredovym tekhn. optom). 1.200 ekz. 30k.-sost. ukazany na oborote tit. 1. -(55-1036) P. 639.3.034

SQ: Knizhnaya, Letopis, Vol. 1, 1955

KONOVALOV, P.M.: ESLINGER, Yu.V.

Circular earth basins developed by the Aral Administration for Fish Protection and Culture. Vop.ikht. no.2:97-111 154. (MIRA 8:5)

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ESLINGER, Yu.V.
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                                                          (MLRA 8:2)
      154.
             (Aral Sea region--Lakes)
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USSR/Cultivated Plants - Fruits. Berries.

Abs Jour	:	Ref Zhur Biol., No 13, 1958, 82478
Author Inst Title	::	Eston, J. Data on the Winter Resistance of Fruit Tree Varieties in the Esonian Soviet Socialist Republic
Orig Pub	:	Vopr. razvitiya sadovodstva v EstSSR, Tallin, Est. gos. izd…vo, 1957, 39-75
Abstract	:	A survey of investigations on the study of winter resis- tance in plants is given. A report is made on the re- sults of the processing of data on the winter resistance of 214 varieties of apple tree, 46 - of pear, 13 - of plum and 23 - of cherry carried out by Tartusskiy Univer- sity. The most winter hardy varieties and the relation between the resistance and agricultural technique are pointed out.

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SOTSIALISTLIK POLLUMAJANDUS. (Pollumajanduse ministeerium) Tallinn, Estonia. Vol. 13, no. 3, March 1958.

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ESLUKOV, M.

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SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress August, 1953, Uncl.

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L 18069-63 EWP(q)/EWT(m)/EDS AFFTC/ASD JD/HW ACCESSION NR: AP3003649 S/0133/63/000/007/0637/0638 AUTHORS: Rospasiyenko, V. I. (Engineer); Esman, F. M. (Engineer) 57 TITLE: Production of thick sheets/from stainless steel SOURCE: Stal', no. 7, 1963, 637-638 TOPIC TAGS: stainless steel, thick sheet ABSTRACT: The process of preparing stainless steel sheets is described. Steel plates (1200-1600 x 10-50 x 4000-6000 mm) were rolled in mill 2800Mat the plates (1200-1600 x 10-50 x 4000-6000 mm) were rolled in mill 2800Mat the Supplied by the plant "Zaporozhstal'." The slabs were trimmed in the warehouse on the trimming machine 7212 with an output of 0.3-0.4 tons/hour. They were heated to 1180-1200C in a series of 20 to 40 pieces. Scale was removed hydrauli- cally or scraped in the vertical stand of the mill. The rolling of stainless steel Met with no difficulties, but cutting thick sheets (22-50 mM) required special equipment. Sheets 8-22 mm thick were cut by disk cutters. The steel sheets were conveyed automatically into a special oven for annealing, followed by water quenching. The annealing temperature was 1100-1150C, and the time	ESMAN, FM.	
TITLE: Production of thick <u>sheets</u> from standard standard standard steels SOURCE: Stal', no. 7, 1963, 637-638 TOPIC TAGS: stainless steel, thick sheet ABSTRACT: The process of preparing stainless steel sheets is described. Steel plates (1200-1600 x 10-50 x 4000-6000 mm) were rolled in <u>mill 2800</u> at the plates (1200-1600 x 10-50 x 4000-6000 mm) were rolled in <u>mill 2800</u> at the <u>supplied the plant grant</u> from slabs (1000-1250 x 120-140 x 1500-2350 mm) <u>Kommunarskiy Metallurgical Plant</u> from slabs (1000-1250 x 120-140 x 1500-2350 mm) <u>Kommunarskiy Metallurgical Plant</u> from slabs (1000-1250 x 120-140 x 1500-2350 mm) <u>kommunarskiy Metallurgical Plant</u> from slabs (1000-1250 x 120-140 x 1500-2350 mm) <u>Kommunarskiy Metallurgical Plant</u> from slabs (1000-1250 x 120-140 x 1500-2350 mm) <u>Kommunarskiy Metallurgical Plant</u> from slabs (1000-1250 x 120-140 x 1500-2350 mm) <u>Kommunarskiy Metallurgical Plant</u> from slabs (1000-1250 x 120-140 x 1500-2350 mm) <u>Kommunarskiy Metallurgical Plant</u> from slabs (1000-1250 x 120-140 x 1500-2350 mm) <u>Kommunarskiy Metallurgical Plant</u> from slabs (1000-1250 x 120-140 x 1500-2350 mm) <u>Kommunarskiy Metallurgical Plant</u> from slabs (1000-1250 x 120-140 x 1500-2350 mm) <u>Kommunarskiy Metallurgical Plant</u> from slabs (1000-1250 x 120-140 x 1500-2350 mm) <u>Kommunarskiy Metallurgical Plant</u> slabs were trimmed in the warehouse supplied by the plant "Zaporozhstal'." The slabs were trimmed in the warehouse on the trimming machine 7212 with an output of 0.3-0.4 tons/hour. They were cally or scraped in the vertical stand of the mill. The rolling of stainless cally or scraped in the vertical stand of the mill. The rolling of stainless cally or scraped in the vertical stand of the mill. The rolling of stainless cally or scraped in the vertical stand of the with no difficulties, but cutting thick sheets (22-50 mm) required <u>teres</u> for annealing, followed	L 18069-63 ACCESSION NR: AP3003649 AUTHORS: Rospasiyenko, V. I. (Engineer); Esman, F. M. (Engineer) S7	- - -
TOPIC TAGS: stainless steel, thick sheet ABSTRACT: The process of preparing stainless steel sheets is described. Steel plates (1200-1600 x 10-50 x 4000-6000 mm) were rolled in <u>mill 2800</u> at the Kommunarskiy Metallurgical Plant from slabs (1000-1250 x 120-140 x 1500-2350 mm) Kommunarskiy Metallurgical Plant from slabs (1000-1250 x 120-140 x 1500-2350 mm) Kommunarskiy Metallurgical Plant is slabs were trimmed in the warehouse supplied by the plant "Zaporozhstal'." The slabs were trimmed in the warehouse on the trimming machine 7212 with an output of 0.3-0.4 tons/hour. They were on the trimming machine 7212 with an output of 0.3-0.4 tons/hour. They were cally or scraped in the vertical stand of the mill. The rolling of stainless cally or scraped in the vertical stand of the mill. The rolling of stainless cally or scraped in the vertical stand of the mill. The rolling of stainless cally or scraped in the vertical stand of the mill. The rolling of stainless cally or scraped in the vertical stand of the mill. The rolling of stainless cally or scraped in the vertical stand of the mill. The rolling of stainless cally of scraped in the vertical stand of the mill. The rolling of stainless cally of scraped in the vertical stand of the mill. The rolling of stainless cally of scraped in the vertical stand of the mill. The rolling of stainless cally of scraped in the vertical stand of the mill. The rolling of stainless cally of scraped in the vertical stand of the mill of the sheets (22-50 df) required	TITLE: Production of thick sheets from Starmers	
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ere placed in a band kept at 450-500	th contain C for 15-3 NaCl Mand	m of sheet thickness. Subsequen ing an alkaline solution (72% Na 5 minutes, They were then washe 3% Na <u>NO3</u> for 8-30 minutes and d HNO35%. Orig. art. has: 1	OH and 20% NaNO ₃), d, pickled in sulfuric white-pickled for
SOCIATION: Kommu ant)	narskiy me	tallurgicheskiy zavod (Kommunars	kiy Metallurgical
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ESMAN, P.I. Work of the central laboratory of the Leningrad Technical Rubber Products plant. Zav.lab.21 no.10:1267-1269 '55. (WIRA 9:1) 1.Wachal'nik TSentral'noy laboratorii Leningradekogo zavoda resinovykh tekhnicheskikh isdeliy. (Leningrad--Rubber)(Leningrad--Chemical engineering laboratories)

Dispers no.3:20	ion of polar polymers in -23 Mr '58.	gasoline. Kauch. i re	MIRA 11:6)
l.Lenir	gradskiy zavod rezinovyk (Polymers) (Disper	h tekhnicheskikh izdeli sion)	.у.

LEPETOV, Vasiliy Aleksandrovich; ESMAN, P.I., red.; ERLIKH, Ye.Ya., tekhn.red.

> [Industrial rubber goods] Rezinovye tekhnicheskie izdeliia. Leningrad, Gos.nauchno-tekhn.izd-vo khim.lit-ry, 1959. 445 p. (MIRA 12:9)

(Rubber goods)

CIA-RDP86-00513R00041222

AUTHOR: Esman, P. I. SOV/138-59-2-17 ?4 TITLE: The Use of Regenerated Rubber (K primeneniyu reg. nerata) PERIODICAL: Kauchuk i rezina, 1959, Nr 2, pp 54-55 (USSR)

The Leningrad Factory for Rubber Articles uses ABSTRACT: regenerated rubber in 50 formulations. The content of These regenerated rubber varies between 10 to 560%. regenerates include the R-20, R-14, R-27, R-28, R-32 and R-34. Reasons are given for the fall in consumption of regenerated rubber during the last three years, and it is suggested that research into new formulations should be carried out, that the quality of the regenerate should be improved and that the Laboratoriya regenerata (Laboratory for Regenerated Rubber) of the NIIShP should carry out investigations on the regeneration of rubber from tyres and on using regenerates in the manufacture of conveyor belts. A conference was convened by Glavrezinprom at the beginning of last year where improvements in the quality of conveyor belts were discussed and their recommendations include the use of Card 1/2 regenerated rubber. The consumption of regenerated

The Use of Regenerated Rubber SOV/138-59-2-17/24 rubber also decreased in the Leningrad Factory of RTI from 34.8% in 1956 to 26.7% during 1956. It is pointed out that a sufficient supply of activated carbon is necessary in order to be able to use regenerated rubber during the manufacture of conveyor belts.

ASSOCIATION: Leningradskiy zaved rezino-tekhnicheskikh izdeliy (Leningrad Tectory of Technical Bubber Products)

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TITLE: The properties of soft butadiene-nitrile rubbers and the application of these in the production of rubber articles 10 PERIODICAL: Kauchuk i rezina, no. 5, 1961, 20 - 26 TEXT: In the last few years, butadiene-nitrile rubber (CKH-SKN) character- ized by a high oil- and gasoline-resistance has been widely used in the rubber industry. However, its application is difficult due to its low initial plasticity (1,500 - 3,000 g according to Defoe) In 1955 the NIIRP began work on the production of a soft SKN-40 rubber not requiring mastication. While testing an experimental batch at the NIIRP and at the "Kauchuk" Plant, it was established that due to the application of the soft SKN-40. rubber with a hardness of 900 - 1,300 g the mechanical mastication stage is eliminated and the productivity of the mixing rollers is increased. However, the mixture of the SKN-40 rubber with a hardness of 900 - 1,300 g cannot be produced in the rubber-mixers. During 1959 - 60 experimental back at the produced in the rubber-mixers.	15 9201	
of these in the production of rubber articles 10 PERIODICAL: Kauchuk i rezina, no. 5, 1961, 20 - 26 TEXT: In the last few years, butadiene-nitrile rubber (CKH-SKN) character- ized by a high oil- and gasoline-resistance has been widely used in the rubber in- dustry. However, its application is difficult due to its low initial plasticity (1,500 - 3,000 g according to Defoe) In 1955 the NIIRP began work on the produc- tion of a soft SKN-40 rubber not requiring mastication. While testing an experi- mental batch at the NIIRP and at the "Kauchuk" Plant, it was established that due to the application of the soft SKN-40 rubber with a hardness of 900 - 1,300 g the mechanical mastication stage is eliminated and the productivity of the mixing rol- lers is increased. However, the mixture of the SKN-40 rubber with a hardness of 900 - 1,300 g cannot be produced in the rubber-mixers. During 1959 - 60 experimen- %	UTHORS :	Novikov, A. S., Devirts, E. Ya., Esman, P. I., Petrova, T. K.
TEXT: In the last few years, butadiene-nitrile rubber (CKH-SKN) character- ized by a high oil- and gasoline-resistance has been widely used in the rubber in- dustry. However, its application is difficult due to its low initial plasticity (1,500 - 3,000 g according to Defoe) In 1955 the NIIRP began work on the produc- tion of a soft SKN-40 rubber not requiring mastication. While testing an experi- mental batch at the NIIRP and at the "Kauchuk" Plant, it was established that due to the application of the soft SKN-40 rubber with a hardness of 900 - 1,300 g the mechanical mastication stage is eliminated and the productivity of the mixing rol- lers is increased. However, the mixture of the SKN-40 rubber with a hardness of 900 - 1,300 g cannot be produced in the rubber-mixers. During 1959 - 60 experimen-		of these in the production of rubber articles
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The properties of soft butadiene-nitrile rubbers and... A051/A129

the production of the soft SKN rubbers does not differ from mass-production, excepting a lower productivity of the drying unit. Experimental soft SKN rubbers were tested at the NIIRP and at rubber article plants. All the produced experimental batches correspond to FOCT 7738-55 (GOST 7738-55) for mass-production SKN rubber in their chemical composition and have a much lower hardness (650 - 1,000 g) than the mass-produced rubbers (1,500 - 3,000 g). Comparison showed that experimental soft SKN-40 rubber is almost equivalent to Perbunan 3810 in its tear resistance, residual elongation, modulus, hardness, brittle temperature, thermal aging resistance, temperature resistance, swelling in a mixture of gasoline-benzene, and surpasses Perbunan 3810 in its relative elongation, rupture resistance, elasticity and frost resistance at -15°C. The experimental SKN-40 rubber surpasses also Heickar 1041 in the same indices as Perbunan 3810, and is also characterized by a much higher rate of vulcanization and higher values of tear resistance and moduli. The experimental soft rubber SKN-26 as compared to the English Heickar 1043 is characterized by a much higher rate of vulcanization and an elevated tear resistance. Compared to Perbunan 2810, the experimental soft SKN-26 has a somewhat higher rate of vulcanization and almost the same tear resistance in optimum vulcanization. The soft SKN-18 surpasses Paracryl AJ in its tear resistance and hardly differs at all from