"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651410001-2

Begin

APPROVED FOR RELEASE: 08/25/2000

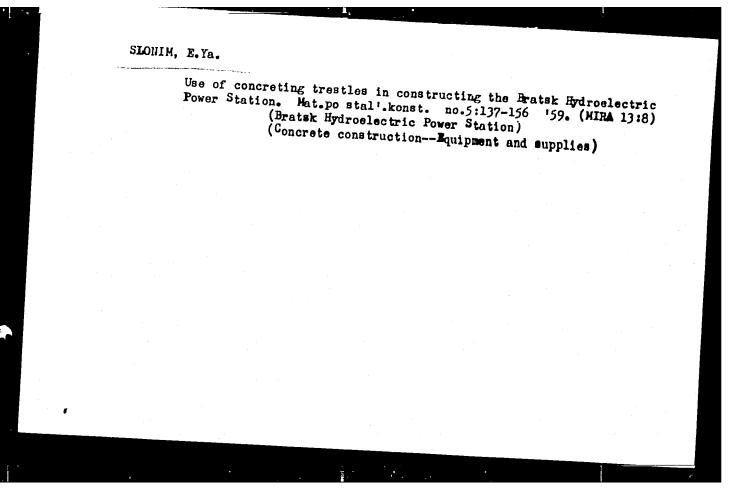
CIA-RDP86-00513R001651410001-2"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651410001-2

REEL 5530 SLOWIM, E. YA.

APPROVED FOR RELEASE: US/25/2000 CIA-RDP80-00513R00105141U0U1-



SLONIM, E.Ya.

Using electronic calculating machines to work out bridge designs. Transp. stroi. 11 no.8:38-40.Ag '61. (MRA 14:9)

1. Glavnyy konstruktor Otdela mcstov Gosudarstvennogo proyektnogo instituta Proyektstal'konstruktsiya.

(Bridges-Design)

(Electronic calculating machines)

SLONIM, E.Ya., inzh.

Suspended crossing with latticed cable-suspended girders on the Bukhara - Ural Mountain Region gas pipeline.
Stroi. truboprov. 7 no.10:5-7 0 '62. (MIRA 15:11)

1. Gosudarstvennyy institut po provektirovaniyu, issledovaniya i ispytaniyu stal'nykh konstruktsiy i mostov, Moskva.

(Gas, Natural--Pipelines)

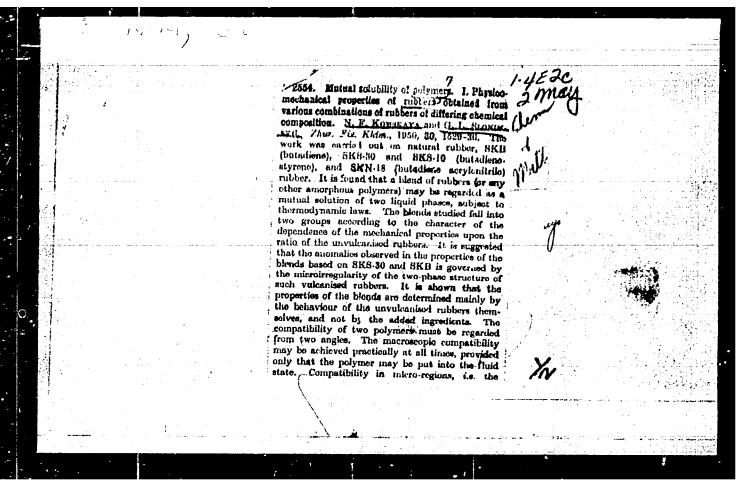
SHICHKOVA, T.I.; SIGNIM, F.L. (Moskva)

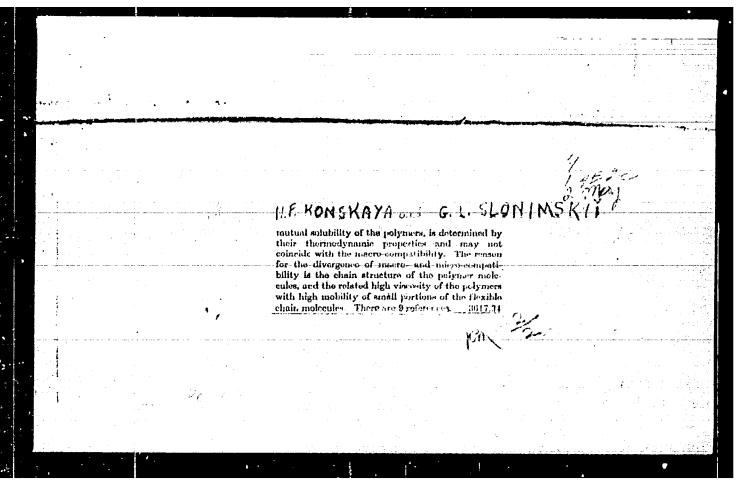
Isolated lymphogranulomatosis of the stomach and the small intestines. Arkn. pat. 27 no.3:80-82 165.

(MRA 18:5)

1. Kafedra patologicheskoy anatomii (zav. - chlen-korrespondent
AMN SSSR prof. A.I. Strukov) i kafedra gospital'noy terapii
(zav. - deystvetel'nyy chlen AMN SSSR prof. A.L. Myasnikov)

1. Moskovskogo ordena Jenina meditsinskogo instituta imeni
Sechenova.





SLONIM, I.I.

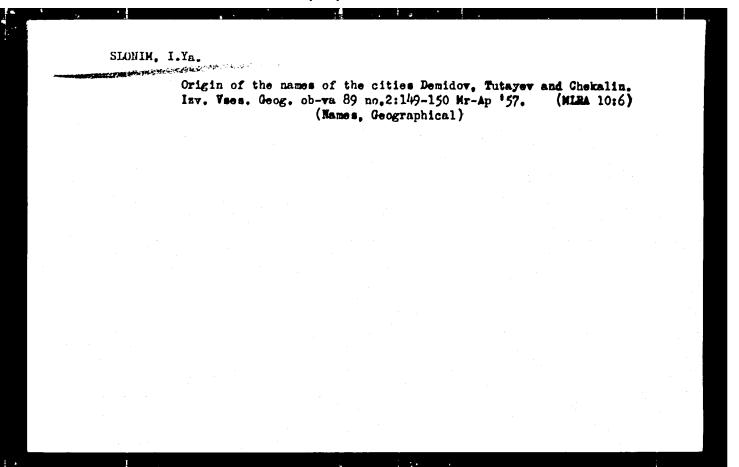
Nuclear magnetic resonance in high polymers. Analele chimie 18 no.1: 29-81 Ja-Mr '63.

[Across the lakes of our country] Po ozeram mashel rodiny. Moskva.

Qps. 13d-vo detskoi lit-ry Ministeratva prosveshchenila RSFSR.

1952. 104 p. (MIRA 7:7)

(Lakes) (Physical geography)



Single, 1. To.

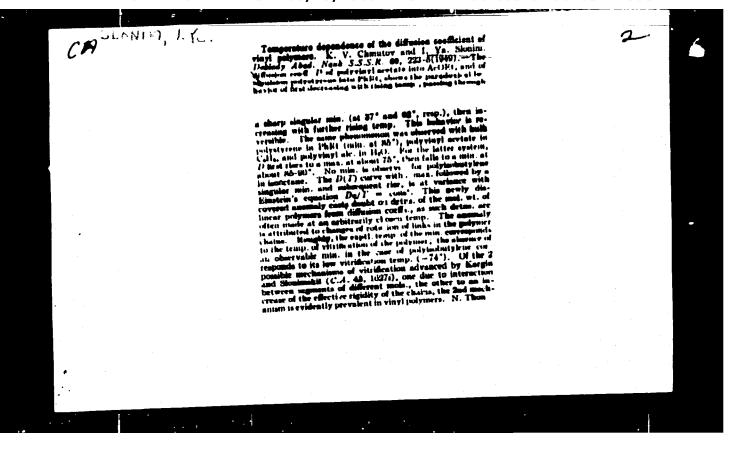
Discretifies: "Officeion of circl colores."

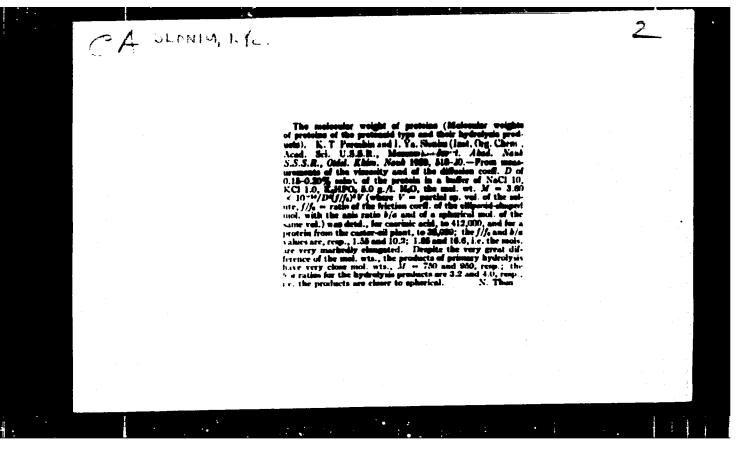
20 Covener to

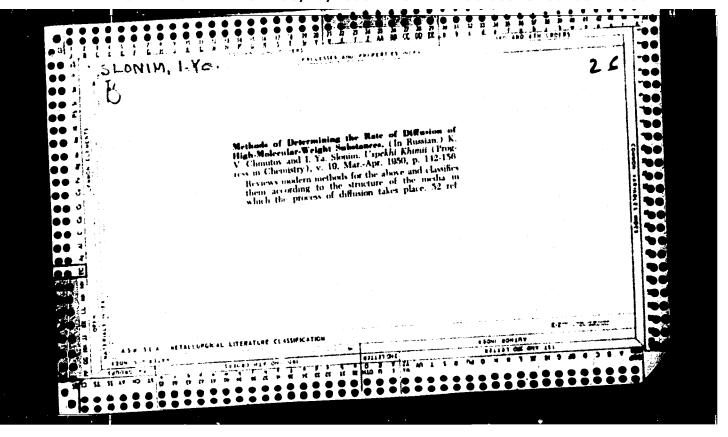
Military Are true of Chamical esfense imani E. Ye. Carothiles.

SO Vectory By II Mosk / 3

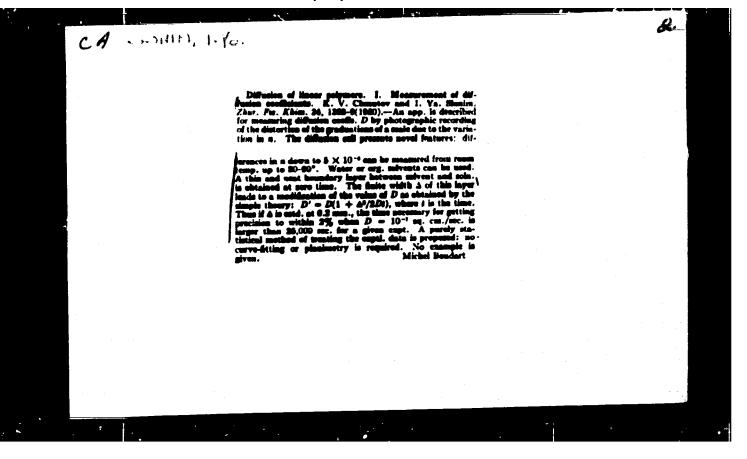
Sum 71

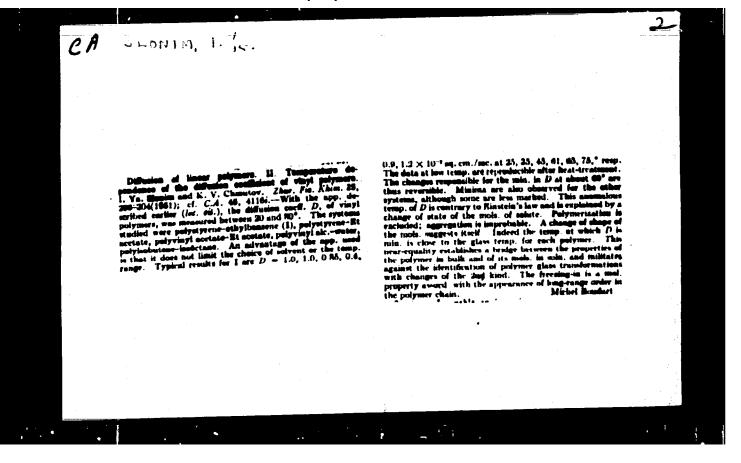












24.3200

AUTHOR: Slonim, I. Ya.

504/51-8-1-16/40

TITLE:

Determination of Particle Size from Scattering of Light. 1. Formulae and Monograms for Calculation of Particle Radius from the Optical Density and from Intensity of Scattered Light.

PERRODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 1, pp 98-108 (USSR)

ABS TRACT:

Shifrin's theory of scattering of light (Ref 1) is used to deduce formulae and to construct nomograms (Figs 2-5) which can be used to determined particle size in disperse systems in which electrical properties of the particles differ only a little from the corresponding properties of the medium. The paper is entirely theoretical. There are 5 figures, 1 table and 13 references, 5 of which are Soviet.

5 English, 1 German and 2 translations from Aussian into English. (?)

SUBMITTED: April 28, 1950

0 m 1/1

5.3831 24.3900

68890

s/051/60/008/02/017/036

AUTHORS:

Slonim, I.Ya. Fodiman, N.M. and Ustinova, Z.M.

TITLE:

Determination o 'Particle Size from Scattering of Light II. Determinat on of Dimensions of Polychloroprene Latex

Using Optical and Electron Microscopic Methods

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 2,

pp 243 - 246 (USSR)

ABSTRACT:

In Part I (Ref 1) Slonin deduced formulae for calculation of particle radii from the results of light scattering in a monodisperse system (all particles are of the same size). If these formulae are plotted to a polydisperse system (particles of different sizes) a certain effective mean value of the radius (a) is obtained; it represents a mono-disperse system scattering the light in the same way as the polydisperse system under investigation. Two forms of the mean radius are employed: a mean-number

radius a_n and a mean-weight radius aw:

Card1/6

S/051/60/008/02/017/036

Determination of Particle Size from Scattering of Light II.
Determination of Dimensions of Polychloroprene Latex Using Optical
and Electron Microscopic Methods

and

$$\mathbf{a}_{\mathbf{w}} = \left(\frac{\mathbf{\Sigma} \mathbf{v}_{\mathbf{i}} \mathbf{a}_{\mathbf{i}}^{6}}{\mathbf{\Sigma} \mathbf{v}_{\mathbf{i}} \mathbf{a}_{\mathbf{i}}^{3}}\right)^{1/3} \tag{2}$$

where J_i is a number of particles with a radius a_i . For particles whose dimensions are small compared with the wavelength of sattered light, the Rayleigh equation holds and measurements of scattering of light yield the value a_w . If the particle dimensions exceed 0.1 λ the mean particle radius, found from measurements of the optical ways density (turbidity), is given by:

Card ap -

S/051/60/008/02/017/036

Determination of Particle Size from Scattering of Light II. Determination of Dimensions of Polychloroprene Latex Using Optical and Electron Microscopic Methods

$$a_{\gamma} = \left(\frac{\sum_{i} a_{i}^{n_{\varphi}+3}}{\sum_{i} a_{i}^{3}}\right)^{\frac{1}{n_{\varphi}}} . \tag{10}$$

The mean particle radius found from the intensity of scattering of light at an angle of 45° is:

$$a_{I} = \left(\frac{\sum_{\mathbf{v}_{\mathbf{i}} \mathbf{a}_{\mathbf{i}}^{\mathbf{n}_{\mathbf{v}}} + 3}}{\sum_{\mathbf{v}_{\mathbf{i}} \mathbf{a}_{\mathbf{i}}^{3}}}\right)^{\frac{1}{\mathbf{n}_{\mathbf{v}}}} \tag{11}$$

Card 3/6

S/051/60/008/02/017/036

Determination of Particle Size from Scattering of Light II.

Determination of Dimensions of Polychloroprene Latex Using Optical and Electron Microscopic Methods

For small particles $n_{\varphi} = n_{\psi} = 3$ and Eqs (10) and (11) become identical with Eq (2) $(a_{\chi} = a_{\bar{1}} = a_{\bar{W}})$. For large particles n_{φ} and n_{ψ} are both less than 3. To calculate them we can use the expressions:

$$n_{\varphi} = \frac{\Delta[\lg \varphi(z)]}{\Delta \lg z}$$
 (12)

and

$$n_{\psi} = \frac{\Delta[\lg\psi(z)]}{\Delta \lg z} . \qquad (13)$$

The values of n_{φ} and n_{φ} decrease with increase of z ($z = 8\pi a/\lambda$): for example, when z = 2, $n_{\varphi} = 2.81$

Card4/6

5/051/60/008/02/017/036

Determination of Particle Size from Scattering of Light II. Determination of Dimensions of Polychloroprene Latex Using Optical and Electron Microscopic Methods

and $n_{\psi} = 2.95$ and when z = 8, $n_{\psi} = 1.33$ and $n_{\psi} = 2.04$. Throughout the range z = 2-8, $n_{\psi} > n_{\omega}$. The formulae quoted above were used to measure the dimensions of globules of polychoroprene latex. To measure scattering of light the latex (with dry residue of 43.5%) was diluted and a 1% solution of ammonia was added to avoid coagulation. Optical density was measured for dilutions from 1:3333 to 1:10000 using a photoelectrocalorimeter-nephelometer FEK-N-54 with 5 cm long cells, employing light of four wavelengths. To determine the intensity of light scattered at an angle of 45° a nephelometer NFM was used on solutions diluted in the ratios from 1:5000 to 1:40000. Electron micrographs of the latex were obtained with an electrostatic Zeiss microscope D-2, with a magnification of 8000. Dimensions of the globules in the electron micrographs were measured with a special microscope, MIR-12. The results

Card5/6

68890 S/051/60/008/02/017/036

Determination of Particle Size from Scattering of Light II.

Determination of Dimensions of Polychloroprene Latex Using Optical and Electron Microscopic Methods

are summarized in Figure 2, where the four arrows represent the mean radii a_n and a_w obtained with an electron microscope, and the values a_v and a_l found optically. In agreement with theory, $a_n < a_l <$

SUBMITTED:

April 28, 1959

Cardio, C.

5.4400

68893

S/051/60/008/02/020/036 E201/E391

AUTHOR: TITLE:

Slonim, I.Ya.

A Nomogram for Calculation of Particle Diameters From

Turbidity Using Mie's Equation

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 2,

pp 255 - 257 (USSR)

ABSTRACT: Mie's theory yields the following relationship between

the light scattering coefficient K and the characteristic turbidity, [Y] of a suspension of particles of diameter

D :

$$K/\rho = 2[\tau] \lambda/3\pi \tag{5}$$

where $Q = \pi D/\lambda$, λ is the wavelength of light in the suspension medium and:

$$[\tau] = \lim_{v \to 0} c_{vol} \to 0$$
 (3)

is the relative volume of the particles in the suspension. When Eq (5) is used to calculate the

Card1/3

S/051/60/008/02/020/036

A Nomogram for Calculation of Particle Blameters From Turbidity Using Mie's Equation

Student Yu.I. Vilents helped in construction of the nomogram.

There are 1 figure and 3 references, 1 of which is Soviet and 2 are English.

SUBMITTED: June 1, 1959

X

Card 3/3

S/051/60/009/002/003/006 E201/E691

AUTHOR:

Slonim, I. Ya.

TITLES

Determination of the Particle Size from Scattering of Light Nomograms for the Determination of the Size of Rod-Shaped Particles

PERIODICAL:Optika i spektroskopiya, 1960, Vol. 9, No. 2, pp. 244-247

TEXT: In his earlier work (Ref 1) the author published nomograms for calculation of the size of spherical or near-spherical particles from their light-scattering properties. Frequently particles are in the form of rods (e.g. viruses) with their diameters considerably smaller than the lengths (the latter comparable with the wavelength of light). The two nomograms (figs. 1, 2) given in the present paper can be used to calculate the size of rod-like particles by two methods: either using measurements in transmitted light or measurements in scattered light. In the former case the particle light or measurements in scattered light. In the former case the particle size is deduced from the "characteristic turbidity" [t] (which is the limit of the ratio of the turbidity 7, in cm⁻¹, to the concentration of particles. when the latter approaches zero) and β which is the attenuation coefficient Card 1/2

5/032/62/028/008/010/014 B104/B102

ASTACRS: Lyubimov, A. N., Varenik, A. F., and Blonim, I. Ya.

TITLE: The nuclear magnetic resonance spectrometer of the Talk and

its tests

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 8, 1962, 991 - 995

TELLT: At the Central Automation Laboratory a nuclear magnetic resonance spectrometer for broad lines was developed for industrial purposes. Two prototypes were built, one of which was tested at the Automation Laboratory and the other at the Institute of Plastics. The spectrometer has three rain components: the magnet system, the supply system for the magnet with temperature control, and the recording apparatus. The nuclear magnetic resonance of the fluorine nuclei in calcium fluoride was determined in order to test the utility of the instrument. For the second moment of the nuclear magnetic resonance line, a value was found which deviates by 2% from those already known. A quick method for arriving at the degree of moisture in caprone was developed in the course of investigating various polymers. A special receiver for nuclear magnetic resonance signals and a Cord 1/2

\$/032/62/028/008/01%/014 B104 'B16**2**

ž

The auclear magnetic restnance ...

special automatic stabilization of the magnetic field were developed for high resolution work. The nuclear magnetic resonance spectrum can be recorded within 2 minutes and the resolving power is 2.10⁻⁸. There are 16 figures.

ASSIGNIATION: Thentral'maya laboratoriya avtomatiki (Central Automation Laboratory) Nauchno-issledovatel'skiy institut plastmass (Scientific Research Institute of Plastics)

Card 2/2

SLONIM, I.Ya.

Nuclear magnetic resonance in high polymers. Usp.khim. 31 nc.5: 609-655 My '62. (MIRA 1:5)

1. Nauchno-issledovatel'skiy institut promyshlennosti plasticheskikh mass.

(Polymers) (Nuclear magnetic resonance and relaxation)

Pr-4/Ps-4/Pc-4 AFFTC/ASD EPF(c)/EPR/EWP(j)/EWT(m)/BDS 8/0191/63/000/005/0058/0061 L 1301.6-63 ACCESSION HR: AP3000405 11 AUTHOR: Slonim, I. Ya.; Urman, Ya. G.; Konovalov, A. G. TPILE: Determination of the moisture content of plastics, molding powders, and fillers by the nuclear magnetic resonance method SOURCE: Plasticheskiye massy*, no. 5, 1963, 58-61 TOPIC TAGS: moisture content, plastics, molding powders, fillers, nuclear magnetic resonance method, K-18-2 molding powder, cord caprone, caprone K, powdered caprone ABSTRACT: Because the moisture of plastics affects their mechanical properties, a number of methods have been devised for its determination. Of these, the nuclear magnetic resonance method offers many advantages, including rapidity, applicability to many kinds of material, and adaptability to automatic control. The authors used it to measure the moisture content of samples of wood powder, K-18-2 molding powder, particulate cord caprone (caprone K), and powdered caprone (brand B). Nuclear magnetic resonance spectra were determined with an MOSO type spectrometer from the Tsentral 'naya laboratoriya avtomatiki (Central Automation Laboratory), and the. results compared with those obtained with standard methods. From the absorption signals recorded with these materials, their moisture content was determined with

L 13016-63	. ,		•		•	
ACCESSION NR: AP3000		`				7
sufficient accuracy of 0.5% for the molding parties and 1 table.						
ASSOCIATION: none			••		***	
SUMMITTED: 00	. 1	DATE ACQ: 10)Jun63	ENCL:	00	
SUB CODE: MA	1	10 ref sov:	003	OTHER	1 -	
	· · · · · · · · · · · · · · · · · · ·	. •	•	•		
		,	•			

SLONIM, I.Ya.; URMAN, Ya.G.

Nuclear magnetic resonance in oriented polymers. Part 1: Formulas for calculation of the second moment. Zhur.strukt.khim. 4 no.2: 216-223 Mr-Ap '63. (MIRA 16:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut plasticheskikh mass.

(Polymers) (Nuclear magnetic resonance and relaxation)

L 37020-65 EWT(1)/EWT(m)/EPR(c)/ZWP(j)/EEC(t)/T Pc-4/Pr-4/Pi-4 IJP(c) 8/0081/64/000/020/8006/8006 ACCESSION NR: ARSO03006 SOURCE: Ref. zh. Khimiya, Abs. 20830 AUTHOR: Urman, Ya. G.; Slonim, I. Ya. TITLE: Nuclear magnetic resonance in oriented polymers. II. Films of polyethyleneterephthalate CITED SOURCE: Sb. Vysokomolekul. soyedineniya. Geterotsepn. vysokomolekul. soyedineniya. M., Nauka, 1963, 227-232 TOPIC TAGS: nuclear magnetic resonance, polymer film, oriented polymer, polyethyleneterephthalate, film structure, magnetic field, stretched film, film rotation, doublet line TRANSLATION: The nuclear magnetic resonance (NMR) spectra of polyethyleneterephthalate films which had been stretched uni- and biaxially were recorded at temperatures from -196 to +170C. The shape of the NMR lines was found to change when the film was rotated in a magnetic field. When a film which had been stretched uniaxially was placed in the direction of the field, the line showed a

L 37020	65							
ACCESSIO	· ·	006			Anthony of the second of the s	Annual Communication of the Co	0	
film whi magnetic macromol ships be in the f with the	ch had been at field, the 1secules in the tween the seculed for the trelationship.	racteristic of tretched uni - of ine had a complete plane of the fond moment of the cases of uni - as calculated the Khim, 1963, 215	or biaxiall lex shape if film. The the MR and and biaxial heoreticall	y was pla ndicating experimen the angl stretchi y by the	ced perpand orientation tally determine of rotations of agree so formulas de	dicular to on of the rained relation of the atisfactori	tion- film Ly	
SUB CODE			ENCL:	•				
	117.				127 - 127 - 1			
nte Card 2/2								

SLONIM, I.Ja [Slonim, LeYa.] (Moskva); LJUBIMOV, A.N. [Lyubimov, A.N.] (Moskva); KOVARSKAJA, B.M. [Kovarskaya, B.M.] (Moskva)

Study of curing and destruction of epoxy resins by nuclear magnetic resonance. Chem prum 13 no.11:000-608 Nº63.

TUTORSKIY, I.A.; SLONIM, I.Ya., URMAN, Ya.G., KUDRYAVTSEVA, Ye.P.;
DOGADKIN, B.A.

Study of the cyclication of rubber by the method of nuclear magnetic resonance. Dokl. AN SSSR 152 no.3:674-676 S '63. (MIRA 16:12)

1. Moskovskiy institut tonkoy khimisheskoy tekhnologii im. M.V.Lomonosova. Predstavleno akademikom A.A.Balandinym.

L 27873-65 EPA(s)-2/EWT(m)/EPF(c)/EPR/EMP(j)/T Pc-4/Pr-4/Ps-4/Pt-10 WW/GS/RM

ACCESSION NR: AT4049841

s/0000/64/000/000/0033/0036 5

AUTHOR: Kovarskaya, B. M.; Zhigunova, I. Ye.; Slonim, I. Ya.; Urman, Ya. G.; B. Neyman, M. B.

TITLE: Investigation of the degradation products and the change in mobility of molecular chains during the thermal degradation of polycarbonate Λ

SOURCE: Khimicheskiye svoystva i modifikatsiya polimerov (Chemical properties and the modification of polymers); sbornik statey. Moscow, Izd-vo Nauka, 1964, 33-36

TOPIC TAGS: polycarbonate, polyarylate, in rared spectroscopy, EPR spectrum, pyrolysis, thermal degradation / Diflon

ABSTRACT: It was found that the polycarbon a "Diflon", with a structure similar to that of the polyarylates based on diphen olpropane and terephthalic or isophthalic acid (polyarylates TD and ID), has high stability towards pyrolysis up to 400C. The slight gas evolution at 400C creases at higher temperatures and at 500C it reaches 16% of the weight of the in tall product. In the gaseous products of polycarbonate, H₂, CO, CO₂, CH₄, ethane, et lene and propylene were found by chromatography. The same gases were found the pyrolysis of TD and ID at 500C. Card 1/3

L 27873-65

ACCESSION NR: AT4049841

Infrared spectra of polycarbonate and of the solid residue after degradation at 500C showed that the absorption bands of the CH3 group (2970, 1365, 1385 cm-1) which are present in the initial polycarbonate are missing in the solid residue, and that the intensity of the absorption bands of the groups C=0 and C-0-C (1780 and 1259 cm-1) decreases. The increase in the intensity of absorption at 1600 and 800 cm-1, corresponding to the benzene ring, in the solid residue shows that the residue contains more phenyl rings after degradation. The change in the structure and molecular mobility during degradation of polycarbonate was also investigated by nuclear paramagnetic resonance spectra. Here, the width of the line depends on the degree of mobility of the molecular group containing the resonant ring. At a temperature higher than 150C and lower than -130C, for the initial polycarbonate, a composite signal is seen which consists of two components: a narrow and a wide band. Two regions of decreased width of the line from -150 to -50C and from 150 to 1700 are found for the initial polycarb mate. The narrowing of the EPR line at low temperatures is due to the mobility of the CH3 groups in the polymer. This narrowing is less marked for the residue. The change in the electron paramagnetic resonance spectra during degradation shows hat the number of CH3 groups in the polymer rapidly decreases and that the rigitity of the structure increases because of the formation of polyphenyl structures. Frig. art. has: 4 figures, 1 table 2 formulas.

L 27873-65 ACCESSION NR: AT4\49841			
ASSOCIATION: Nauchno-issledovatel's	kiy institut plastic		
	L: 00 ER: 004	SUB CODE: GC, M	
Co. 3/3		The state of the s	

1. SQUARSION INT. APRIO (\$207 Symmetry Symmetry

.... Vinolin Y. S. dora, G. A.; Urman, Y., G.; Sloalm, L. Yi.

Thrink: Variation in the dynamic degree of crystallimity and the absrecisomer confinction of polygro with glaring its conversion to the //

DOG. DE: Manifeliathiye massy*, no. 11, 1994, 28-30

TWO TAGS: pel mer crystallinity, polypropylene stereokromer, polypropylene film, muchan me gnetic resonance, polymer film, polymer stabilizer

Marking City The effect of processing on the structure and properties of polypropylane was investigated, with emphasis on variations in the dynamic degree of crystallinity as shown by the nuclear magnetic resonance. The use of this method for the determination of the dynamic degree of crystallinity is based on the theory that the protons in the mobile polymer chain asymmets give narrow bands while those in the immobile segments give wide bands. The critical frequency here is $10^{4}-10^{5}$ c.p.s. The dynamic degree of crystallinity of the chain segments depends on the temperature. With increasing temperature, the mobility of the chain segments increases and the degree of crystallinity decreases, since the general rigidity of the polymer structure depends on this degree of crystallinity, it is an important characteristic. In the present work, the Russian-made film-forming

determined for samples obtained by compression molding and entrusion. The nuclear immensity remained spectra were taken at 36C, because at a temperature slightly higher than room a measure the complex form of the band can be seen more clearly. The typical spectrum of polypropylene is given. The effect of the forming methods (compression molding or excrusion) on the degree of crystallinity and mechanical properties was at a sandied. Loca methods were found to give films with almost the same high degree of

H. John C. Chem. April 2007

J. Lande case. Stabilizors decrease the destruction of the transmise polymerical control and the stability.

Addeditation. None

JULIANTICA. None

JULIANTICA. ON ENCL. 00 SUB-CODE: NT

NO NEW SOV: 003 OTHER: 003

SLONIM, I.Ya.

Shapes of nuclear magnetic resonance lines in polymers. Vysokom.soed. 6 no.8:1371-1378 Ag 164. (MIRA 17:10)

Nuclear magnetic resonance in the two-component polymer systems. Ibid.: 1379-1386

1. Nauchno-issledovateliskiy institut plasticheskikh mass.

URMAN, Ya.G.; SLONIM, I, Ya.; KONOVALOV, A.G.

Nuclear magnetic resonance in polyform-ldehyde. Vysokom.soed. 6 no.9: 1651-1655 S *64. (MIRA 17:10)

1. Nauchno-issledovatel'skiy institut plasticheskikh mass.

URMAN, Ya.G.; SLANIM, I. Ya.; YERMOLAYEV, A.D.

Nuclear magnetic resonance in the system polymer in mono...r matrix. Vysokom. seed. 6 no.11:2107-2109 N '64 (MIRA 18:2)

L 8873-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RAEM(c)/RAEM(1)/AS(mp)-2/SSD/ASD(m)-3/AFWL/ESD(t) RM
ACCESSION NR: AP4012978 S/0020/64/154/004/0914/0317

AUTHOR: Slonim, I. Ya., Urman, Ya. G.; Vonsyatskiy, V. A.; Liogon'kiy, B. I.; Berlin, A. A.

TITLE: Nuclear magnetic resonance in polymers with conjugated bond systems.

SOURCE: AN SSSR. Doklady*, v. 154, no. 4, 1964, 914-917

TOPIC TAGS: nuclear magnetic resonance, coplanar polymers, noncoplanar polymers, conjugated bond polymer, magnetic field, secondary magnetic moment, polyphenylene, macromolecular structure, conjugated double bond system.

ABSTRACT: The nuclear magnetic resonance of polyphenylene and its derivatives was studied, to determine if the molecules have a flat structure and the adjacent rings are noncoplanar. The magnetic field and the secondary mament of polyphenylene, polyazophenylene, and methyl-substituted polyazophenylene (all of 1000-3000 molecular weight) were determined at -198C, 20C and 175C. Experimental values for the secondary moment of polyphenylene are much less than the Card 1/2

L 8878-65

ACCESSION NR: AP4012978

2

theoretical value if the molecule were planar, but agree with theoretical value if the adjacent rings were rotated 37° along the C-C bond between the rings. Results are similar for polyazophenylene. The moment for the methyl-substituted polyazophenylene was found to be no higher than that of the unsubstituted: this indicates noncoplanarity of the adjacent rings and rotation of the methyl group in the molecule even at 196C. Orig. art. has: 1 table, 1 figure, and 3 formulas.

ASSOCIATION: Institut khimicheskoy fiziki Akadamii na uk SSSR; (Institute of Chemical Physics, Academy of Sciences SSSR); Nauchno-isaledovatel skiy institute plasticheskikh mass (Scientific Research Institute of Plastics)

SUBMITTED: 049ep63

ENCL: 00

SUB CODE: NP. 60 1

NO REF SOV: 005

OTHER: 00

Card 2/2

- 10 (2/261) -

EWG(j)/EWT(m)/EPF(c)/EWP(j)/T/EWA(h)/EWA(1)L 57008-65 Pc-4/Pr-4/Peb RM ACCESSION MR: AP5011823 UR/0192/65/006/002/0192/0191 538.27 AUTHORS: Sionim, I. Ya.; Urman, Ya. G.; Yermolayev, A. D.; Akutin, TITLE: Muclear magnetic resonance in oriented polymers. 3. Radiatively polymerized polyformaldehyde ,6 Zhurnal strukturnoy khimii, v. 6, no. 2, 1965, 192-197 TOPIC TAGS: muclear magnetic resonance, crystalline polymer, polyformaldehyde ANSTRACI': The orientation of radiatively polymerized "monocrystalline" polyformaldehyde (PF) was studied by MMR techniques. MMR spectra of "monocrystalline" (5-6 mm in length) and polycrystalline specimens of PF were determined at -1960 for different orientations of the principal crystalline axis in the magnetic field. The line shape did not exhibit any well developed structure. The value of the second moment of the 18.5 10.5 (gauss)2. The difference from the calculated AH2 (gauss)2, and is attributed to change in the distance C - H from 1.09 to 1.104 and/ or residual molecular motion at -1960. Calculated values for AH, for manographiline Card 1/2

APPROVED FOR RELEASE: 08/25/2000

L 570011-65

ACCESSION NR: AP5011823

specimens are 0.5 (gauss)² and 2 (gauss)² higher for 0' = 0 and $0' \le 45^0$ respectively than the experimental values; 0' is the angle between the axis of specimen and the direction of the field. The line shape for isolated nuclear pairs was calculated on the assumption of a uniform distribution of intermolear vectors on the surface of a come after the method of G. E. Pake (J. Chem. Phys. 16, 327, 1948). The experimental line shape was found to be considerably different from the calculated one, and this discrepancy is attributed in part to the neglect of W-type crystallites in the

calculation. In the calculation of ΔH_2^2 of the line shape, and of the line width, most of the weight was given to the Z-type orystallites. W-type orystallites are oriented at 76007' to the macroscopic crystal axis; 2-type crystallites are parallel to this axis. The calculated dependence of the line width on the engle 6' is in good agreement with experimental data. The authors thank L. G. Kasaryan for determining the x-ray picture of the specimen. Orig. art. has: 7 graphs, 1 photograph, and 7 equations.

ASSOCIATION: Nauchno-issledovatel'skiy institut plastmass (Scientific Research Institute of Polymers)

EUBLITTID: 12Rov63

SUB CODE: OC. NP

MO REF SOV: 005

OTHER: 008

Card 2/2dm

CIA-RDP86-00513R001651410001-2"

The process of the control of the state of t

SLINE, i. 1a., UNNER, fa.G.: Yhetenaivy, A.L.

Nuclear anguetic resonance in trioxance, Thur. strukt. (him. 6 no. 4:51-539 Jl-Ag "65" (MIRA 19:1)

1. Hauchne-issladovatel skiy fratitut plastmass, d.i. Atod Gatober

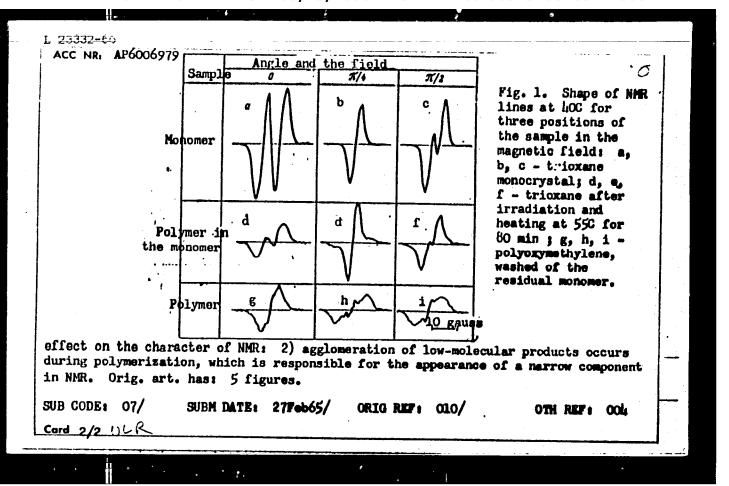
23332-66 EWT(m)/EPF(n)=2/EWP(f)/T/EWA(h)/EWA(1) - GG/RMACC NR: AP6006979 (A) SOURCE CODE: UR/0190/66/008/002/0251/0255 44. AUTHORS: Urman, Ya. G.; Slonim, I. Ya.; Yermolayev, A. D. ORG: Scientific Research Institute of Plastics (Nauchno-issledovatel'skiy institut plasticheskikh mass) ρ_{\prime} TITLE: Investigation of the radiation polymerization of trioxane in solid phase (4th report in the series "Nuclear magnetic resonance in oriented polymers") SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 2, 1966, 251-255 TOPIC TAGS: radiation polymerization, nuclear magnetic resonance, trioxane ARSTRACT: Oriented radiation-induced polymerization of trioxane in solid phase has been investigated by NMR. This is an expansion of the work published earlier by Ya. G. Urman, I. Ya. Slonim, and A. D. Yermolayev (Vysokomolek. soyed., 6, 2107, 1964). The method for preparing monocrystalline trioxane and for its polymerization was described previously by I. Ya. Slonim, Ya. G. Urman, and A. D. Yermolayev (Zh. struct. khimii, 6, 531, 1965). NMR spectra were taken with a spectrometer of the Central Laboratory of Automation (Tsentralinaya laboratoriya avtomatiki) at the frequency of 20 megahertz at 40C. Changes in the NMR spectra observed during the solic polymerization process are shown in Fig. 1. It was observed that: 1) during postpolymerization of the irradiated sample at 550, the shape and second moment of NMR

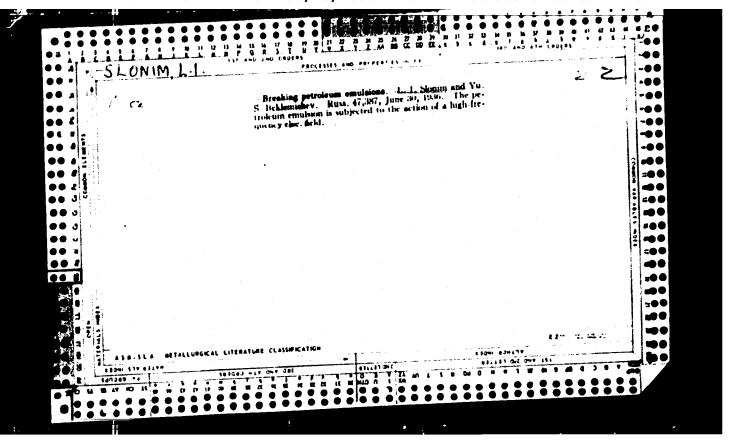
APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651410001-2"

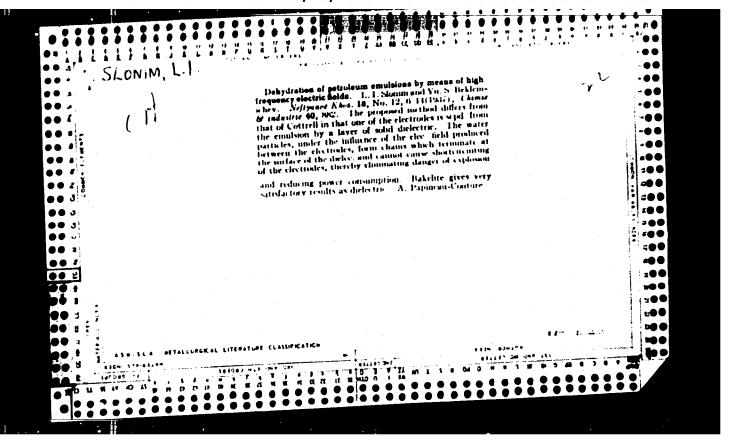
VDC: 66.095.26+678.55

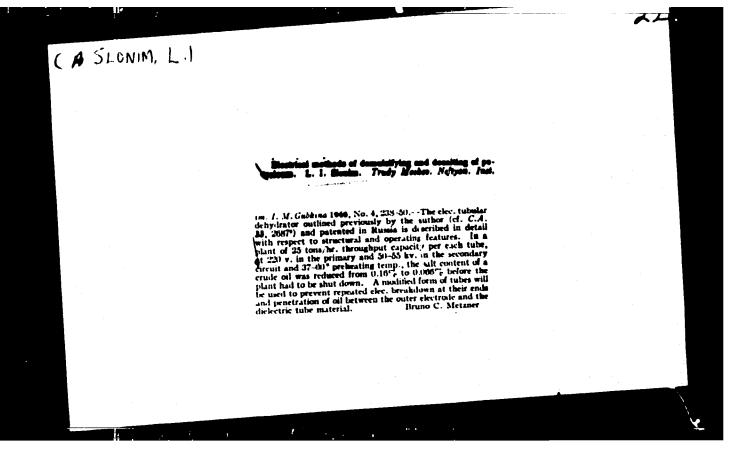
line change sharply. The position of the sample in the field also has a significant

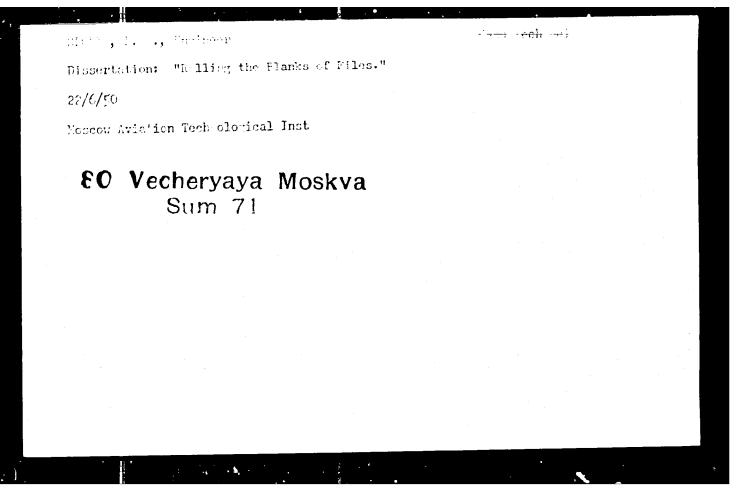
Card 1/2











SLONIM, L.S., inchener; SHINSKIY, G.Ya.

New method of assembling chairs. Der.prom. 5 no.12:8-10 D '56.
(MLRA 10:1)

1. Konstruktorskoye byuro Moskovskogo oblastnogo upravleniya mestnoy promyshlennosti.

(Chairs) (Joinery)

L 23450-65 EWT(d)/EWT(m)/EWP(f)/T-2

ACCESSION NR: AR5000899

8/0273/64/000/010/0009/0019

SOURCE: Ref. zh. Dvigateli vnutrennego sgoraniya. Otd. vyp., Abs. 10.39.58

AUTHOR: Slonim, L.S.: Trukhanov, V.A.

TITI.E: Calculating the process of supercharging in a two-cycle internal combustion engine

CITED SOURCE: Tr. Chelyab. in-ta mekhaniz. i elektrifik. s. kh., vyp. 16, 1963, 97-104

TOPIC TAGS: two cycle engine, engine supercharging system, supercharging coefficient, supercharging phase calculation

TRANSLATION: Selection of pressure levels and optimal parameters for air ducts of the supercharging system is of major significance in engine design. Hence, one should know the amount of working gas per cycle passing through the air ducts of the supercharger, from the receiver into the working cylinder. Experimental studies established that supercharging of two-cycle engines with slot scavenging should begin after closure of the scavenging ducts, rather than after closure of the exhaust ducts as thought previously. The process of supercharging consists of two stages: 1. the supercharging stage during exhaust, and 2. the supercharging stage after completion of exhaust. The former stage can be considered as a continuation of the scavenging process; the latter Cord 1/2

L 23450-65 ACCESSION NR: AR5000899

takes place with exhaust ducts already closed, hence the pressure increases steadily in the cylinder and drops in the receiver. Experimental results served to establish the dependence of gas flow rate on rpm and supercharging pressure. This dependence approaches a linear form in relation to change in rpm, or to the level of supercharging pressure. The ratio of the actual, experimentally defined, rate of gas flow to its analytically determined value was termed the coefficient of supercharging. Within the studied range of operating speeds, that coefficient exhibits a rectilinear relationship to the number of revolutions of an engine's crankshaft and comprises a function of duct channel cross section dimension and of the level of supercharging pressure. Values of terms in the expression for a coefficient of supercharging are given in relation to various pressures and various periods — duct cross sections. Results of experimental studies indicate that the dependence of the coefficient of supercharging on supercharging pressure is curvilinear at constant rpm. It is concluded that an empirical coefficient of supercharging should be included in calculations of the supercharging phase for a two-cycle engine when defining the rate of gas or air flow through distributing ducts. Bibl. with 2 titles; 3 illustrations. P. Shelest

SUE CODE: PR

ENCL: 00

Card 2/2

IVENSKIY, G.V.; POSSE, Z.V.; SLONIM, M.A.

Twelve-phase bridge rectifier with series connection of primary transformer windings. Izv. NIIPT no.8:83-110 '61. (MIRA 15:7) (Electric current rectifiers) (Electric power distribution-Direct current)

CLONIM N.M.

AID P - 889

Subject

: USSR/Electricity

Card 1/1

Pub. 29 - 22/23

Author

: Slonim, N. M.

Title

Increase of the no-load current of repaired a-c motors

Periodical: Energetik, 10, 38, 0 1954

Abstract

: In reply to a reader's question, the author gives a brief explanation.

Institution: Not given

Submitted : No date

SLCNIM, M.A. (Leningrad)

Use of the difference equations method in calculating inverse firing in converter systems. Izv. AN SSSR. Energ. i transp. no.5:560-568 S-0 164. (MIRA 17:12)

SLOHIM, N.M.

Meunting ball-bearings on shafts and the washing of bearings.

Energetik 4 ne.8:40 Ag '56. (MLRA 9:10)

(Bearings (Machinery))

BODUNGEN, I.N., inzh.; VINOGRADOV, K.V., inzh.; VELLERSHTEYN, A.L., inzh.; GOL'DGGF, B.G., inzh.; KUZ'MIN, V.S., inzh.; KULIKOV, P.S., inzh.; LEBELEV, N.N., inzh.; LEVI, S.S., kand.tekhn.nauk; ROZANOV, M.S., inzh.; SIDOROV, V.B., inzh.; SOKOLOV, D.V., inzh.; SLONIM, N.M., inzh., laureat Stalinskoy premii; EPSHTEYN, A.L., Inzh.; ANTRUSHIN, B.D., inzh., nauchnyy red.; SIMAKOV, S.N., inzh., nauchnyy red.; TRUBIN, V.A., glavnyy red.; SOSHIN, A.V., zam.glavnogo red.; GRINEVICH, G.P., red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; ZIMIN, P.A., red.; VLOVENKO, Z.I., red.izd-va; SHIROKOVA, G.M., red.izd-va; EL'KINA, E.M., tekhn.red.

[Power engineering handbook for construction work] Sprayochnik energetika na stroitel'stve. Izd.2., perer. i dop. Pod red. N.N. Lebedeva. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1960. 736 p.

(Power engineering)

CZECHOSLOVAKIA / Virology. Human and Animal Viruses

E-3

Abs Jour : Ref Zhur - Biol., No 2, 1958, No 5009

Author : Slonim, Shtepanek

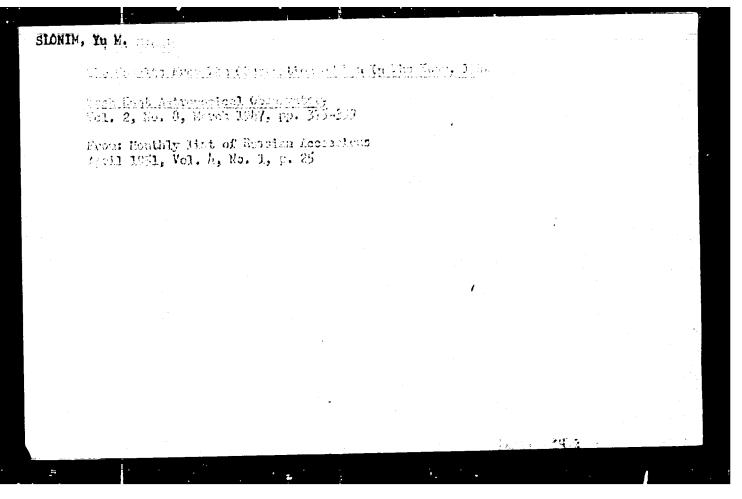
Inst : Not given

Title : Investigations of a purified Virus of Czechoslovak Tick Encephalitis by an Electron-Optical Method. Communication IV. Virus of Czechoslovak Tick Encephalitis.

Orig Pub: Ceskosl. epidemiol., mikrobiol., imunol., 1956, 5, No 4, 173-177

Abstract: The virus (strain JIR) was introduced into mouse brain, and the brain suspension was then treated with acetone, ether and methyl alcohol, or by a cruder method -- with bentonite and subsequent freezing. The titer of end products of purification (DL), obtained by the first method, attained

Card : 1/2

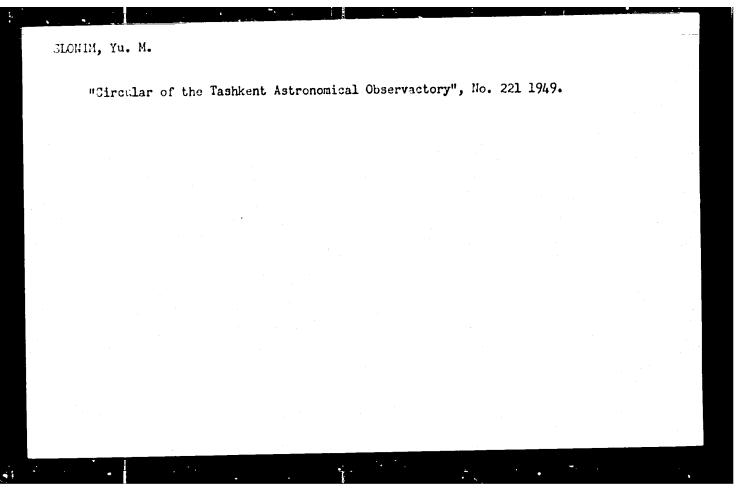


Thomas, We. 1. - "Results of investigations of the sum in 1975", Tyullebert Tasks, author, statewist, Wol. I., Me. 9, 1987, p. 495-93.

So: U-3042, 11 March 53, (leteris 'Zhurnal 'nykh Statey, No. 8, 1989).

HONIE, Yu. H.

"Gircular of the Tashkent Astrono ical Observatory", No. 220, 8 pp , 1949.



"Circular of the Tashkent Astronomical Observatory", No 222, 8 pp 1949.

SHCHEGLOV, V.P.; SIONIM, Yu.M., redaktor; SKRIPNIK, M.V., redaktor; BABAKHANOVA; A.G., tekhnicheskiy redaktor.

[Eclipse of the sun on June 30, 1954] Solnechnoe satmenie 30 iiunia 1954 goda. Tashkent, Isd-vo Akad. nauk UsSSR., 1954. 30 p. [Microfilm] (Eclipses, Solar--1954)

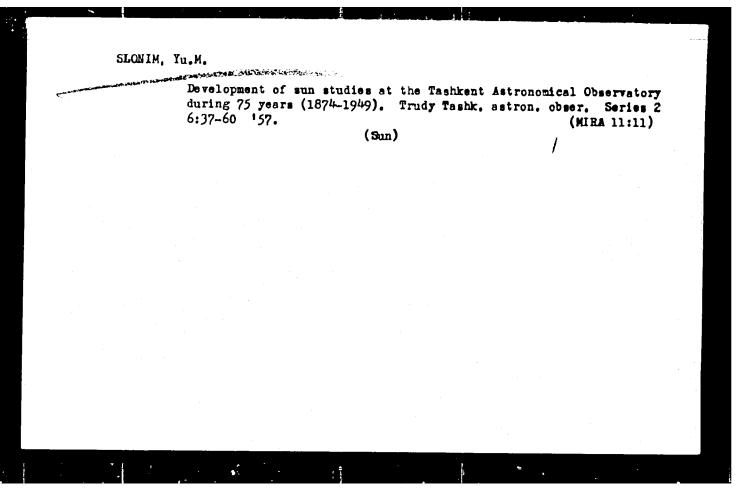
Chromospheric flares and some characteristics of active regions of the sun. Izv.AE Uz.SSR.Ser.fiz-mat.nauk no.1:83-93 \$57. (MIRA 13:8)		
(Sun)	(MINA 1):0/	

SLONIM, Yu.M.; KULESHOVA, K.F.

Characteristics of the last eleven-year cycle of solar activity.

Trudy Tashk. astron. obser. Series 2 6:101-111 *57. (NIRA 11:11)

(Sun)



SLONIM, Yu.M.

Active grees on the sun and chromospheric flares. Trudy Tashk,
estron. obser. Series 2 6:61-100 '57. (MIRA 11:11)

(Sun)

88821

S/035/61/000/002/006/016 A001/A001

3.1540(1062,1128,1168)

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1961 No. 1, p. 52, # 2A431

AUTHOR:

Slonim Yu.

TITLE:

Chromospheric Flares and Frominences in Active Zones

PERIODICAL:

"Tsirkulyar Tashkentsk. astron. observ.", 1959, maya 20, No. 300,

pp. 17 - 20

TEXT: Observations with a chromospheric telescope show that prominences which are formed in the coronal space are frequently followed by prominences of chromospheric origin. Streams and loops of coronal prominences, multiple ejections of a "fan" ("cpakhalo"), and other phenomena are frequently of repeated nature. Descending movements of matter in the coronal space entail ascending movements in the chromosphere and vice versa. Flares and local luminosity growth appear both in spots of matter ejection and in spots of flowing in of coronal jets and streams. An investigation of 30 flares on the disk proper also produced the

Card 1/2

以此88 S/033/62/039/005/001/011 E032/E314

3,1540

AUTHOR:

Slonim, Yu.M.

TITLE:

Relation between chromospheric flares and prominences

in active regions

PERIODICAL:

Astronomicheskiy zhurnal, v. 39, no. 5, 1962,

798 - 812 + 2 plates

TEXT: An attempt is made to classify chromospheric flares on the basis of their connection with prominences. The analysis is based on observations made with the chromospheric telescope and the spectrohelioscope at Tashkentskaya astronomicheskaya observatoriya (Tashkent Astronomical Observatory) during 1958 - 1960. The observational data indicate that in active solar regions chromospheric flares and prominences frequently accompany each other. Thus, flares are accompanied by the ejection of chromospheric matter (including retrogressive ejections) and slow outflow (with a constant velocity of about 10 km/sec) leading to the formation of prominences. The Flares are also related to the inflow of streams, loops and jets of coronal prominences. The development of flares is correlated with the Card 1/3

S/033/62/039/005/001/011 E032/E314

Relation between

nature of the accompanying prominences. Flares take the form of a short impulse in the case of sudden ejections of chromospheric matter or the form of extended emission bursts in the case of slow outflow of chromospheric matter. Finally, in the case of coronal inflow, the flares are of the prolonged pulsating type, which is in good agreement with the delayed and intermittent development of the corresponding prominences. The flare-prominence correlation is confirmed by the fact that flares characterized by plasma motions (flares-prominences) are similar to the usual forms of sunspot prominences, including typical loop structures Pettit's sub-class IIIb (Astrophys.J., 98, 6, 1943). This confirms earlier results reported by the author (Tsirk. Tashkentsk. astron. observ., no. 300, 17, May, 1959). The simultaneous appearance outside active regions of these two processes may be regarded as additional evidence for the correlation between them. Thus, flares accompany the sudden disappearance of extended stationary filaments and the ejection of matter from undisturbed chromospheric regions.

Card 2/3

s/033/62/039/005/001/011 E032/E314

Relation between

The correlation between flares and prominences may have a deeper significance, i.e. the two processes may, in fact, be different manifestations of the same effect in the upper layers of the Sun. There are 5 figures and 2 tables.

ASSOCIATION:

Tashkentskaya astronomicheskaya observatoriya

(Tashkent Astronomical Observatory)

SUBMITTED:

April 30, 1961 March 20, 1962 (initially)

(after revision)

Card 3/3

ISHCHENKO, I.M.; SLONIM, Yu.M., kand.fiz.-matem.nauk, otv.red.; EYDEL'MAN, A.S., red.; KARABAYEVA, Kh.U., tekhn.red.

[Some eclipsing binary stars in constellations Cygnus, Lacerta, and Cepheug.] Nekotorye zatemnennye dvoinye zvezdy v sozvezdijakh Lebedia, Iashcherity i Tsefeia. Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR, 1963. 102 p. (Tashkent. Astronomicheskaia observatorija. Trudy, Ser. 2, vol. 9). (MIRA 16:9)

5/0214/63/000/004/0067/0077

ACCESSION NR: AP4007596

AUTHOR: Slonim, Yu. M.

TITLE: Nature and localization of chromospheric flares

SOURCE: Solnechny*ye danny*ye, no. 4, 1963, 67-77

TOPIC TAGS: chromospheric flare, brightness pulsation, chromospheric matter, chromospheric prominence, coronal prominence, microphotometer, coronal matter, pulsating flare, flocculent field, C type flare, B type flare, A type flare, Balmer continuum, recombination process, H calcium line, K calcium line, hydrogen, neutral helium line

ABSTRACT: The relationship of flares to solar prominences has been discussed. Three types of flares are considered. Type A is shown to have plasma with sharp, short pulse jets, type B a strong, contracted radiation burst, and type C a long-duration pulsating character. The first two appear strictly in the chromosphere, whereas type C has a coronal origin. In order to compare these various flare types objectively, the flare intensity was replaced by the line width characteristic H_{C} . It is shown that type C flares are generated principally in the growth phase

Card1/2

ACESSION NR: AP4007596

of sunspot groups, whereas types A and B are found in the decaying phase. It is concluded that these facts noted—show the differences between the fast-growing flares of types A and B and the pulsating flares of type C. The analysis is extended to connect type C flares with loop prominences. Various reasons a regiven for the hypothesis, emphasizing the similarity between pulsating emission center for type C flares and the nature of nodal and jet radiation of prominences. Two significant observations are cited: the first on April 5, 1960 in group No. 144, and the second on December 18, 1956, in the case cited by H. Zirin (Ap. J., 129, 414, 1959). This latter observation supports the hypothesis (Ap. J., 129 and the supports are generated in the solar corona, and form spatial multistage that type C flares are generated in the solar corona, and form spatial multistage structures. The author expresses his gratitude to Z. B. Korobova for help in the photometric measurements. Orig. art. has: 5 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 21Jan64

ENCL: 00

SUB CODE: AS

NO REF SOV: 006

OTHER: 011

Cord 2/2

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651410001-2"

L 06315-67 EWT(1) GW ACC NR: AR6016291

SOURCE CODE: UR/0269/66/000/001/0053/0059

AUTHOR: Slonim, Yu. M.

23 R

TITLE: Flares with emission of material and photospheric phenomena associated with them. Part 2

SOURCE: Ref. zh. Astronomiya, Abs. 1.51.425

REF SOURCE: Solnechnnyye dannyye, no. 1, 1965, 51-57

TOPIC TAGS: solar photosphere, solar flare, solar chromosphere, solar corona, solar magnetic field

ABSTRACT: The development and ascent of loop protuberances associated with strong chromosphoric flares are discussed and the following conclusions are made. Flares of the given type are closely associated with the emergence of the magnetic field and material from the photosphere into the outer layers of the solar atmosphere. The interaction of the ascending field with the field already existing in the corona produces in turn condensation and discharge into the chromosphere of the coronal plasma. Thus, mixing of photospheric, chromospheric, and coronal material occurs in the region of flares. The discharge of the coronal plasma causes long-

Card 1/2

UDC: 523.75:523.74

L 06315-67 ACC NR: AR6016291	•			***	0	
term pulsations of floccula brightness. Translation of abstract		Bibliography	of 15 c	itations.	V. Banin	
SUB CODE: 03						
,		+ + + + + + + + + + + + + + + + + + +				
				• .		
Card 2/2 M.P.E		en e				

SLOWINER, B.M., inghener.

New methods for setting up tanks. Masl.shir.prom. 19 no.1:30-31 '54.

(MLRA 7:2)

(Tanks)

SLOWIMER, B.M., inzh.; KANEVSKIY, L.Ya., inzh., retsenzent; ABAKUMOV, G.I., inzh., red.; MOLYUKOV, G.A., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Assembly of equipment and plants of the food industry; a reference manual] Montash predpriiatii pishchevoi promyshlennosti; kratkoe spravochnoe posobie. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit. lit-ry, 1960. 376 p.

(NIRA 13:7)

(Food industry--Equipment and supplies)

Class pipes. Masl.-zhir.prom. 26 no.7:35-37 Jl '60.

1. Trest "Prodmontazh".

(Pipe, Class)

SLONIMER, B.M.; POVAROV, K.I.; MAKOVITSKIY, B.K., inzh., nauchnyy red.; GORDEYEV, P.A., red.izd-va; SHERSTNEVA, N.V., tekhn. red.

[Installation and use of glass piping in the national economy]
Stekliannye truboprovody v narodnom khoziaistve, ikh momtash i
ekspluatatsiia. Moskva, Gos. izd-vo lit-ry po stroit., arkhit.
i stroit. materialam, 1961. 179 p. (MIRA 15:2)
(Pipe, Glass)

SLONIMLE, B.H., inzh.

New packing materials for glass pipes. Mont. i spets. rab. v stroi. 23 no.3:7-10 Mr '61. (MITA 14:2)

1. Spetsializirovannoye upravlenije po montazhu steklyannykh trubcprovodov tresta Prodmontazh. (Pipe, Glass)

ROD'KIN, P.P.; SLONIMER, B.M.; KATS, L. Kh.

Brine-cooling coils made of glass. Khol.tekh. 38 no.2:51-52

Mr-Ap '61.

(Refrigeration and refrigerating mackinery)

JLOMBER, B.M., Inzh.

Manufacture of the parts of glass pipelines. Mont. o spets. rab. v stroi. 24 no.1:22-25 Ja 162. (MIRA 15:7)

1. Spetsializirovannoye upravleniye po montazhu steklyannykh truboprovodov tresta Prodmontazh.

(Pipe, Glass)

SIGNIMER, B.M., inzh.

Testing the strength of the joints of glass pipelines. Mont. i spets. r: b. v stroi. 24 no.4:17-19 Ap *62. (MIRA 15:7)

1. Spetsial'noye upravleniye po montazhu steklyannykh truboprovodov Tre ta po montazhu prodovol'stvennykh predpriyatiy. (Pipe, Glass—Testing)

32

ACCESSION NR: AR4043466

S/0282/63/000/012/0001/0001

SOURCE: Ref. zh. Khimich. i kholod. mashinostr. Otd. vy*p., Abs. 12, 47, 3

AUTHOR: Stonimer, B. M.

TITLE: Glass tubing in the chemical industry

CITED SOURCE: Vestn. tekhn. i ekon. inform. N.-i. in-t tekhn.-ekon. issled. Gos. kom-ta khim. i neft. prom-sti pri Gosplane SSSR, vy*p. 4, 1963, 27-30

TOPIC TAGS: glass tubing, glass product, chemical industry

TRANSLATION: Notes the advantages and disadvantages of glass tubing. In the USSR, glass tubing 1.5-3 m long and with diameter to 100 mm with smooth ends is made from low-alkali glass not containing boron by the method of continuous elongation. Describes the mounting of the tubes and shaped parts, the operating conditions, thermal insulation, and examples of the use of glass tubing at various factories. Three illustrations.

SUB CODE: MT, GO

Card 1/1

ENCL: 00

SLONIFER, B.M., inzh.

Anticorrosive polyethylene coatings for parts of pipelines.

Mont. i spets. rab. v stroi. 25 no.5:25-26 My '63.

(Polyethylene) (Protective coatings)

(Pipe fittings)

SLONIM, Dimitrij; SLONIMOVA, Miluse

Complement fixation in diagnosis of influenza. Cesk. epidem. mikroh. imun. 5 no.3:125-131 June 56.

1. Z ustavu lekarske mikrobiologie a imunologie KU v Praze, prednosta prof. MUDr. Frantisek Patocka. (INFLUENZA, diagnosis,

complement fixation (Cz))

An index of Z. P. Solov'ev's ou lished works 1936. 21 p. (42-26526)

28825.73.86

1. Solov'ev, Zinovii Petrovich 1876-1928 - Bibl.

2. Hygiene, Public - Russia - Bibl. I. Shukhman, M. F. II. IAkovlev, Iven Nikolaevich. III. Moscow. Institut sanitarnoi kul'tury.

9. Monthly List of Russian Accessions, Library of Congress, Cotober 1952 1993, Uncl.

SLONIMSKAYA, I. A.

Medicine, Rural

Lenin's evaluation of the work of country dectors. Sov.zdrav., 11, No. 2, 1952.

Monthly List of Russian Accessions. Library of Congress, June 1952. Unclassified.

SIONIMSKAYA, Ida Abramovna; STRASHUN, I.D., redaktor; SENCHILO, K.K., tekhnicheskiy redaktor:

[Medical service workers in the revolution of 1905-1907] Meditsinskie rabotniki v revoliutsii 1905-1907 gg. Moskva, Gos.isd-ve med.lit-ry, 1955. 49 p. (MEMA 9:6) (Russia--Revolution of 1905) (Medical service employees)

SLONINSKAYA, I.A. (Moskva)

Nedical workers in the Revolution of 1905. I.A. Slonimekaia. Fel*4. 1
akush. no.11:3-10 B *55.

(MURICINE-HISTORY)