NIKITINA, Ye.V.; AYDAROVA, R.A.; KASHCHENKO, L.I.; UBUKEYEVA, A.U.;
POPOVA, L.I.; TKACHENKO, V.I.; GOLOVKOVA, A.G., SHPOTA, Ye.I.;
FILATOVA, N.S.; SHARASHOVA, V.S.; VVEDENSKIY, A.I., nauchnyy red.;
VYKHODTSEV, I.V., red.; ANOKHINA, M.G., tekhn.red.

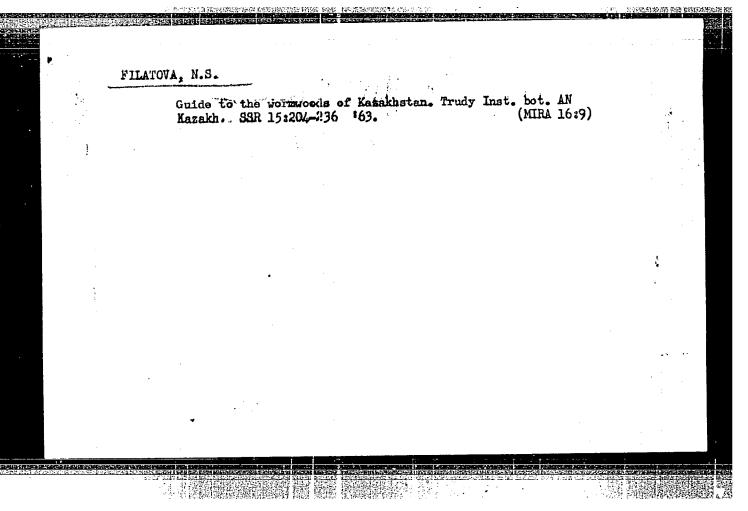
[Flora of the Kirghis S.S.R.; key to the plants of the Kirghiz S.S.R.] Flora Kirgisskoi SSR; opredelitel' rastenii Kirgisskoi SSR. Sost. B.V.Nikitina i dr. Nauchn.red. A.I.Vvedenskii. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR. Vol.8. [The carrot, dogwood, wintergreen, heath, primrose, leadwort, olive, gentian, dogbone, milkweed, and morning-glory families] Semeistva: zontichnye, kizilovye, grushankovye, vereskovye, pervotsvetnye, svinchatkovye, maslinovye, gorechavkovye, kutrovye, lastovnevye, v'iunkovye, 1959. 222 p. Vol.9. [The mint and nightshade families] Semeistva: gubotsvetnye i paslenovye. 1960. 213 p. (MIRA 13:7)

NIKITINA, Ye.V.; AYDAROVA, R.A.; FILATOVA, N.S.; UBUKEYEVA, A.U.; SUDNITSINA, I.G.; LYSOVA, N.V., otv. red.; BUTENKO, H.P., red. izd-ve; ANCKHINA, M.G., tekhn. red.

[Trees and shrubs of the populated areas of Kirghizistan; a popular guide] Derevis i kustarniki naselennykh punktov Kirgizii; populiarnyi opredeliteli. Sost. E.V.Nikitina i dr. Frunze, 1960. 249 p. (MIRA 14:5)

1. Akademiya nauk Kirgizakoy SSR. Institut botaniki.
(Kirghizistan--Trees) (Kirghizistan--Shrubs)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020019-1"



NIKITINA, Ye.V.; AYDAROVA, R.A.; UBUKEYEVA, A.U.; FILATOVA, N.S.;

SUDNITSYNA, I.G.; TKACHENKO, V.I.; SHARASHOVA, V.S.;

KASHCHENKO, L.I.; SHPOTA, Ye.I.; VVEDENSKIY, A.I., nauchnyy

red.; VYKHODTSEV, I.V., otv. red.; SORONBAYEVA, N.V., red.

izd-va; ANOKHINA, M.G., tekhn. red.

[Flora of the Kirghiz S.S.R.; classification key of the plants of the Kirghiz S.S.R.] Flora Kirgizskoi SSSR; opredelitel' rastenii Kirgizskoi SSSR. Sost. E.V.Nikitina i dr. Nauchn. red. A.I.Vvedenskii. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR. Vol.10. [Families: Cuscutaceae, Polemoniaceae, Boraginaceae, Verbenaceae, Scrophulariaceae, Bignoniaceae, Orobanchaceae, Lentibulariaceae, Plantaginaceae, Rubiaceae, Caprifoliaceae, Adoxaceae, Valerianaceae, Morinaceae, Dipsacaceae, Gucurbitaceae, Campanulaceae, Lobeliaceae] Semeistva: Povilikovye, Siniukhovye, Burachmikovye, Verbenovye, Norichmikovye, Bignonievye, Zarazikhovye, Puzyrchatkovye, Podorozhmikovye, Marenovye, Zhimolostnye, Adoksovye, Valerianovye, Morinovye, Vorsiankovye, Tykvennye, Kolokol'chikovye, Lobelievye. 1962. 387 p. (MIRA 15:9) (Kirghizistan-Dicotyledons)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020019-1"

NIKITINA, Ye.V.; AYDAROVA, R.A.; DZHANAYEVA, V.M.; UBUKEYEVA, A.U.;
AREAYEVA, Z.S.; SUDNITSYNA, I.G.; SULTANOVA, R.M.; CORBUNOVA,
N.V.; TKACHENKO, V.I.; FILATOVA, N.S.; CHERNEVA, O.V.;
VVEDENSKIY, A.I., nauchn. red.; VYKHODTSEV, I.V., otv. red.

[Flora of the Kirghiz S.S.R.; a guide to the plants of the Kirhiz S.S.R.] Flora Kirgizskoi SSR; opredelitel' rastenii Kirgizskoi SSR. Frunze, Ilim. Vol.11. 1965. 606 p. (MIRA 18:11)

FILATOVA, N.V.

USSR/ Physics - Absorption of gases

Gard 1/1 Pub. 86 - 17/37

Authors : Chmutov, K. V., Mem. Corresp. Acad. Sci. USSR; and Filatova, N. V.

Title : Model setup of a process for the absorption of gases, vapors and dissolved

substances

Periodical: Priroda 43/10, 95-96, and insert, Oct 1954

Abstract : The reclaiming of gases, vapors and dissolved substances by an absorption or

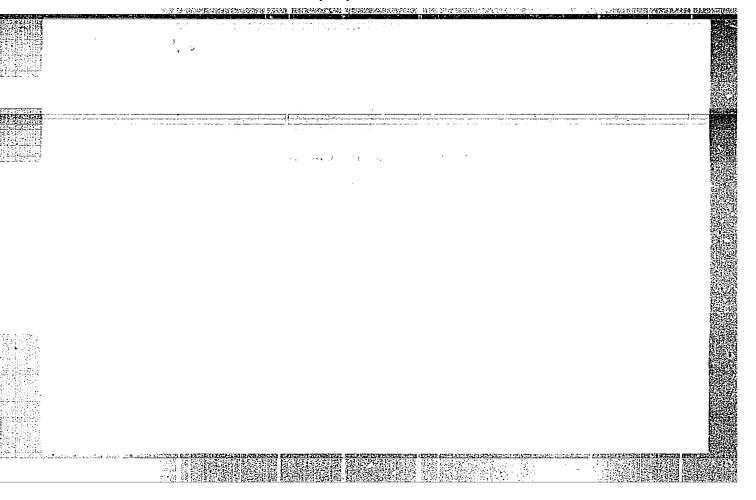
adsorption process is described. A model setup of the apparatus is shown.

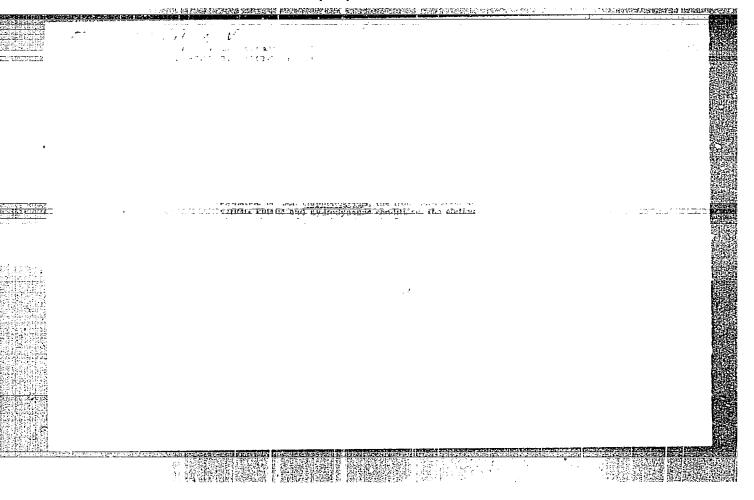
The process consists of passing an uninterrupted stream of a mixture or solution through layers of a granulated substance placed in a tube, chamber or

very-long column. Illustrations; graphs.

Institution: ...

Submitted : ...





5/844/62/000/000/102/129 D204/D307

Kiseleva, Ye. D., Chmutov, K. V., Krupnova, V. N. and Filatova, N. V. AUTHORS:

TITLE: The effect of the exchanging ion and of linking on the

radiation stability of ion-exchange resins

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khi-

mii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962,

603-610

TEXT: The present work is part of a systematic search for radiation-stable ion-exchange resins. The effect of cross-linking was studied on cationites CPC-2 (SBS-2, a copolymer of styrene and butadiene) and on KY-2 (KU-2, copolymer of styrene and divinylbenzene). The irradiation was carried out in water, by a method described ~ earlier (ZhFKh, 25, 1816 (1961)) using the linear accelerator of the authors' Institute, the dose being $(0.2 - 2.1) \times 10^{23}$ ev/g.

The exchange capacity of KU-2 in the H+ form decreased on irradiation and was generally higher for higher contents (2 - 16%, great-Card 1/3

S/844/62/000/000/102/129 D204/D307

The effect of the ...

est at 12%) of divinylbenzene (DVB); new exchanging groups, with a pK of 7.5 appeared in amounts increasing with the dose, independently of the DVB content which denotes the degree of linking. The percentage swelling on irradiation depended on the content of DVB and was lowered by doses exceeding $\sim 0.7 \times 10^{23}$ ev/g. The selectivity w.r.t. the C_s^+ ion, characterized by exchange constant k_H^{Cs} , was generally lower for lower constants of DVB and varied irregularly with the dose, remaining little changed on the average. The pH rose from ~ 2 for unirradiated to ~ 12 for irradiated KU-2 (0.7 - 1.1 x 10^{23} ev/g, 12 - 16% DVB). Cu^{2+} , Cr^{3+} , Fe^{3+} and UO_2^{2+} forms of KU-2 lost their exchange capacity more slowly than the H^+ form, but the degree of swelling rose from 90 to 180% for a dose of 1.4 x 10^{23} ev/g. The radiation stability of KU-1 (a sulfonated phenolic type) treated in a similar manner, was higher than that of KU-2; the properties remained essentially unchanged. SBS-2 largely retained its exchange capacity for doses up to 2.16 x 10^{23} ev/g, but the percentage swelling went through a minimum of $\sim 20\%$ at $\sim 0.5 \times 10^{23}$ ev/g.

Card 2/3

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The effect of the ...

The properties of an anionite AB-17 (AV-17) remained essentially unchanged when the resin was irradiated, in various ionic forms. The changes in the properties of KU-2 are ascribed to changes in the structure of the resin, resulting from the fission of C-S and C-C bonds, followed possibly by interaction with the radiolysis products of water. There are 11 figures and 2 tables.

ASSOCIATION: Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry, AS USSR)

Card 3/3

KISELEVA, Ye.D.; CHMUTOV, K.V.; FILATOVA, N.V.

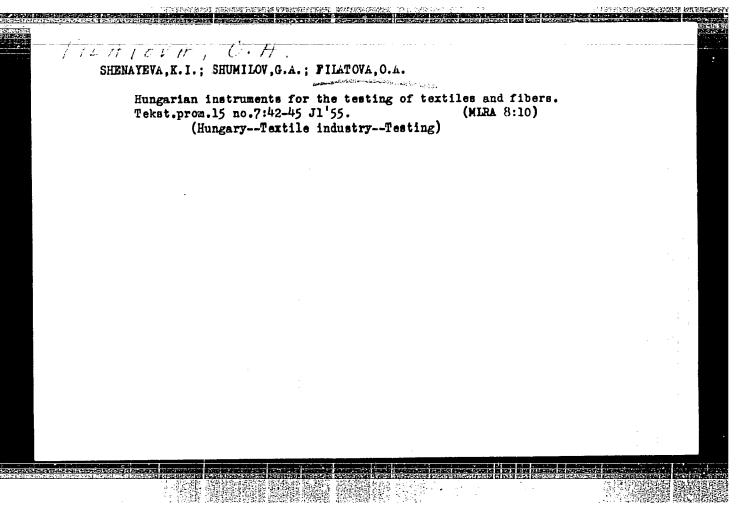
Rad atiom stability of ion-exchange resins. Part 3.
Zhur. fiz. khim. 36 no.11:2465-2468 N*62. (MIRA 17:5)

1. Institut fizicheskoy khimii AN SSSR.

KONALOVA, B.K.; FILTOV, N.V.; EMPRITYEV, L.L., red.

[Gverall mechanization of straw harvesting] Kompleksnaia
uborka solomy. Koskva, Mossel'khozizdat, 1964. 51 p.
(MRA 17:7)

1. Vserosstyskly nauchno-issledovniel'skly institut meknanizatsid i elektrifikatsti sel'skoga khazyaystva (for
Komarova, Filatov).



AUTHOR: Filatova, O.A. 28-58-2-10/41

TITLE: Determining the Shrinkage Value of Fabrics (Opredeleniye

velichiny usadki tkaney)

PeRIODICAL: Standartizatsiya, 1958, Nr 2, pp 33-35 (USSR)

ABSTRACT: The article contains information on a method of evaluating the

shrinkage of fabrics in laundering, developed by TsNIKhBP and accepted for the standard ("GOST 8710-58"). The method is based on the results of Soviet and foreign experiments and the recommendations of the International Standard Organization. Details of the method are given. The shrinkage obtained in such tests corresponds to the shrinkage caused by 4-5 common launderings. A big test, carried out on fabrics of staple viscose fiber at the Moskovskiy tekstil'nyy institut (Moscow Textile Institute), by Professor G.N. Kukin, Dotsent F.Kh. Sadykova, Professor A.N. Solov'yev, and Candidate of Technical Sciences

N.Ya. Tret'yakova is mentioned. There is 1 table.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut khlopchatobu-

mazhnoy promyshlennosti (Central Scientific Research Institute

of the Cotton Industry)

AVAILABLE: Library of Congress

Card 1/1 1. Textiles-Shrinkage-Measurement 2. Standardization-USSR

EYGES, Ye.G., kand.tekhn.nauk, starskiy nauchnyy sotrudnik; FILATOVA, O.A., starshiy nauchnyy sotrudnik

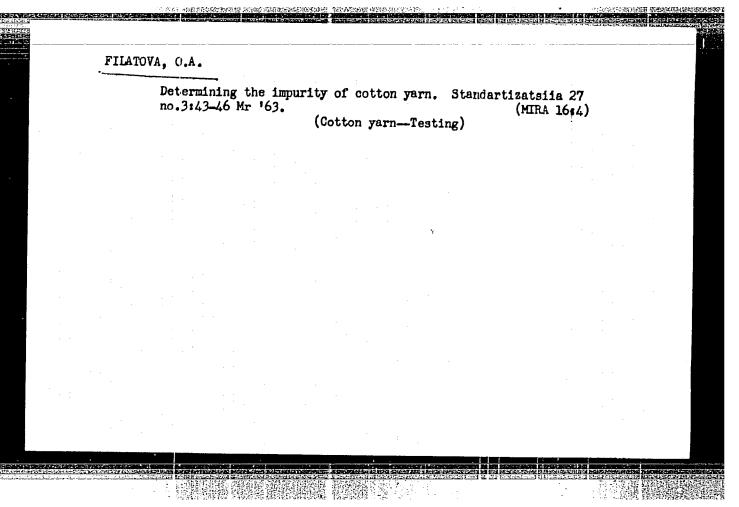
Consultation. Tekst.prom. no.2:93-94 F 163.

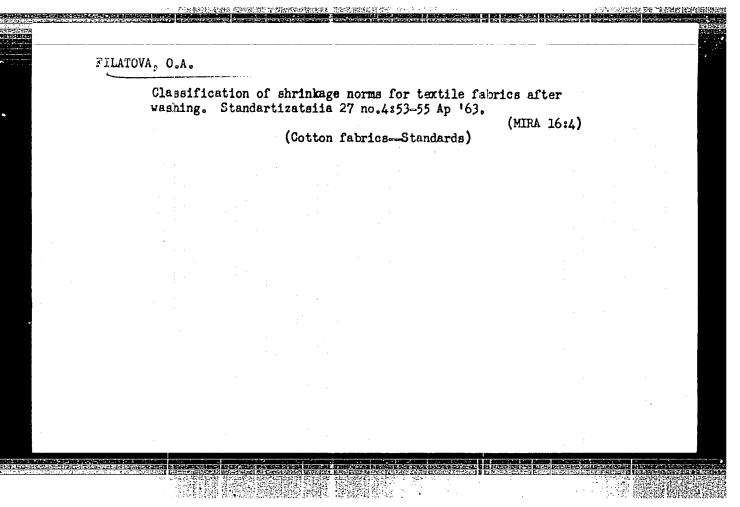
(MIRA 16:4)

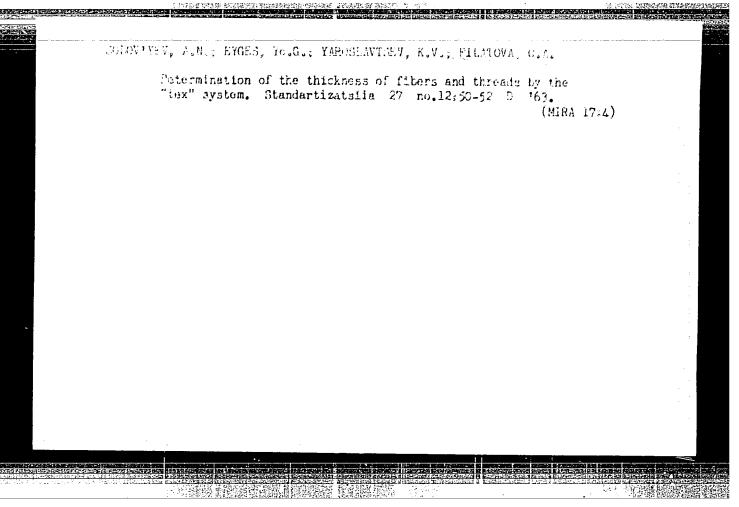
1. TSentral'nyy nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti (TSNIKhBI).

(Spinning)

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THE PERSON OF TH

KOTKOV, I.I.; HELIKOV, B.S., v.o.golovnogo inzhenera; TRAKHTHNHERG, M.Yu., gologniy konstruktor; KLEVAYCHUK, P.I.; FILATOVA, O.I.; KRAVCHENKO, O.M.; RODENKO, G.O.; BARDASH, O.P., spetredaktor

[Dwellings of two rooms and a kitchen-dining room] Zhylyi budynck na dvi kimnaty z kukhneiu-idal'neiu. Proekt No.075. Kyiv, Vydavnychyi viddil, 1953. 18 plans. (MLRA 9:12)

1. Ukraine. Upravlinnya v spravakh siliskogo i kolgospnogo budivnytstva. 2. Direktor Diprosilibudu (for Kotkov) 3, Kerivnik APM-3 (for Klevaychuk) (Dwellings)

FILATOVA, R. I. USSR/Chemistry

Card 1/1

Authors

Ayrapetova, R. P.; and Filatova, R. I.

Title

Calculation of viscosity of binary systems. Part 1. -

Periodical

Zhur. Ob. Khim. 24, Ed. 5, 799 - 802, Ear 1954

Abstract

The viscosity of five binary systems was calculated in accordance with the G. M. Panchenkov formula. The calculated data obtained were in perfect conformity with the experimental values. A bond energycomposition diagram was prepared. The presence of maxima on the bond energy-composition-curve confirms the presence of a chemical reaction between the components. The bond energy-composition-curves, arched toward the axis of the abscissa, indicates the absence of a

chemical reaction. Four USSR references. Tables, graphs.

Institution:

: Central Asiatic State University

Submitted

: October 19, 1953

B-55 83873, 28 Mm si

CIA-RDP86-00513R000413020019-1" APPROVED FOR RELEASE: 06/13/2000

L 15323-65 AND
ACCESSION WR: APholitho9

5/0240/64/000/006/0054/0056

AUTHOR: Filatora, R. I. (Engineer-Technologist)

TITLE: Determination of the biochemical oxygen requirement for biologically purified sewage

SOURCE: Gigiyena i sanitariya, no. 6, 1964, 54-56

TOPIC TAGS: sewage, sowage purification, biological purification,

ABSTRACT: In biological purification of sewage, oxidation of carbon-bearing substances and oxidation of nivrogen-bearing substances and oxidation of nivrogen-bearing substances simultaneously. The mesent study considers the oxides of determining the oxygen requirement for oxidation of marring substances. At the Central base tills assessed to of the Kozhukhovskaya werstly; but I not the oxygen of the Kozhukhovskaya werstly; but I not the oxygen and find the formulation and place that it is a startly of the find the oxygen and simplest metalic to the oxygen and oxidation of the oxygen and oxidation oxidation of the oxygen and oxidation oxidatio

Card 1/2

L 15323-65

ACCESSION NR: AP4041409

show that the oxygen requirement determined by dilution with pasteurization is 3 to 4 mg/l lower than for dilution with methyl

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ASSOCIATION: Teentralinaya nauchno-issledovateliskaya laboratoriya thesia "Mosochistovod", Moscow (Central Scientific-Research Theory of the Board of the "Mosochis ovod")

SUBMITTED: 060ct63 ENGL: 00 SUB CODE: LS

NR REF SOV: 005 OTHER: 001

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mack: Horoi o '	v. B. H., Barnakov, V. R., Potekhin, Ku. I., Shishenina.		*
ilatova, R. H	sting system of the waveguide-type cyclic accelerator		(
ক্ষেত্ৰ কলা হ েছ	Sb. Elektron. uskoriteli. M., Vyash. shkola, 1964, 138-14	47	
	relengtor, cyclic accelerator, waveguide type accelerator		
TRANSLATION: C	alculation of parameters of an accelerating system of the colorator is presented; the results of an eccentimental in the results of an eccentimental in	a waveguide- nvostigation	
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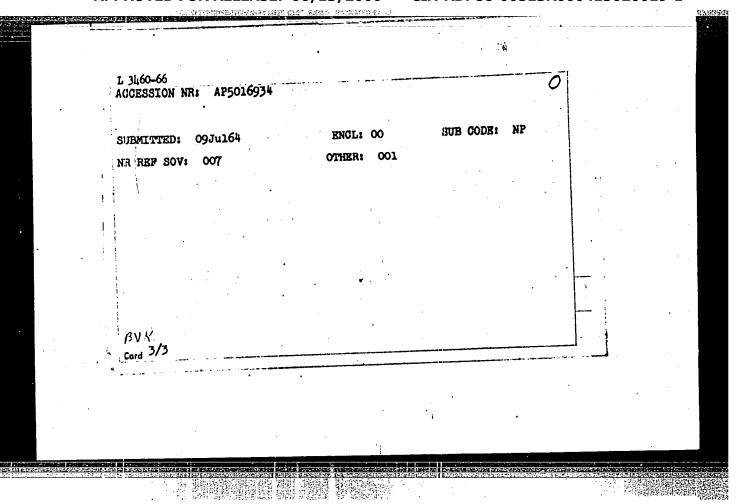
VORCB'YEV, A.A.; DIDENKO, A.N.; LISITSYN, A.I.; MOROZOV, B.N.; FOTEKHIN, Yu.I.; SALIVON, L.G.; FILATOVA, R.M.

A 10-Mev. wave-guide type synchrotron. Atom. energ. 18 no.6:633-634 Je '65. (MIRA 18:7)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020019-1"

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AUTHORS: Voroblyev, A. A.; Didenko, A. N.; Lis Morozov, B. N.; Potekhin, Yu. I.; Salivon, L. G.	itsyn, A. I.; .; Filatova, R. M.	
TITLE: 10 MeV waveguide synchrotron	V	
SOURCE: Atomnaya energiya, v. 18, no. 6, 1965, 6	33-634	
TOPIC TAGS: synchrotron, circular accelerator, e	lectron added and the	
ABSTRACT: After first listing some of the theory volved in the design of socielerators of this type volved in the design of socielerators of this type listitut yadernoy fiziki Tomskogo politekhniches Institut yadernoy fiziki Tomskogo politekhniches Institut yadernoy fiziki Tomskogo politekhniches Institut yadernoy fiziki Tomskogo politekhniches	kogo inguluta (bozonia	17.4
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Card 2/		
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	in the π/2 m brium orbit	ode is exco	ited in t	he waveg on which	uide. The phase	ne radiu e veloci	s of t ty of	he equi	11-			
	wave is equa teraction sp the shunt re first accele high-frequen 10-cm genera	ace measure sistance i rated to 3	es 6 x 6 s approxi MeV in t	om. The Lmately (the betai	e system of the	The elloy a Ke	lectroners gu	s are in. The	e ed			
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ACC NR: AT7003994

SOURCE CODE: UR/0000/66/000/000/0075/0082

AUTHOR: Vorob'yev, A. A.; B.zmaternykh, L. N.; Didenko, A. N.; Filatova, R. M.

ORG: Scientific Research Institute of Nuclear Physics, Electronics, and Automation, Tomsk Polytechnic Institute (Nauchno-issledovatel'skiy institut yadernoy fiziki, elektroniki i avtomatiki pri TPI)

TITLE: Waveguide accelerating systems with walls not shielding the control magnetic field

SOURCE: Mezhvuzovskaya konferentsiya po elektronnym uskoritelyam. 5th, Tomsk, 1964. Elektronnyye uskoriteli (Electron accelerators); trudy konferentsii. Moscow, Atomizdat, 1966, 75-82

TOPIC TAGS: waveguide, accelerator, cyclic accelerator, particle acceleration

ABSTRACT: A multilayer-dielectric coating similar to that used in Fabry-Perot interferometers (W. Gulshaw, Proc. Phys. Soc., London, v. 66, sec. B, 597, 1953) and in lasers (J. Franklin Inst., 273, 177, 1962) is proposed for the walls of waveguide-type accelerators. Uniformly bent smooth and septate closed

Card 1/2:

ACC NR: AT7003994

rectangular waveguides with multilayer-dielectric walls are theoretically and experimentally investigated. Formulas for the rejection frequency of a periodic multilayer structure, for attenuation, and for the total electromagnetic-wave losses due to reflection from a multilayer dielectric are derived. A length of standard 72×34 -mm waveguide whose ends were closed by multilayer-dielectric walls was excited by TE $_{101}$ -mode at $\lambda = 10$, 182 cm; at room temperature, $\Omega = 1800$. Findings: (1) At a fixed frequency, the field structure in the above system does not differ from that in an all-metal system; (2) Use of TE-modes is preferable; inside the multilayer wall, the field attenuates rapidly; with proper selection of wall parameters, no hazard of dielectric breakdown by SHF high power will'exist; (3) The above multilayer-dielectric walls are feasible if Sr and Ba titanates are used as materials (see R. O. Bell et al., IRE Trans., MTT-9, 239, 1961). Orig. art. has: 3 figures, 15 formulas, and 1 table.

SUB CODE: 09 / SUBM DATE: 06Mar66 / ORIG REF: 001 / OTH REF: 003

Card 2/2

FILATOVA, R.S. [Fylatova, R.S.]

Sex differences in the morphological composition of rat blood.
Fixiol.zhur. [Ukr.] 5 no.3:346-351 Ky-Je '59. (MIRA 12:10)

1. Institut fiziologii im. 0.0.Bogonol'tsya AN URSR, laboratoriya endokrinnikh funkteiy.

(SEX (BIOLOGY)) (BLOOD--ANALYSIS AND CHEMISTRY)

FILATOVA, R.S.		
Effect Fiziol.	of sex hormones on the morphologic composition of by zhur. [Ukr.] 8 no.2:231-237 Mr-Ap '62. (M	RA 15:5)
	ratoriya endokrinologii Instituta fiziologii im. A., Kiyev. (HORMONES, SEX) (ELOOD CELIS)	A.Bogomol [†] ts
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* 4		

FILATOVA, R.S...

Effect of prolonged administration on testoctarene prolicests on the morphological composition of the blood of access actualized rats. Fiziol. zhur. [Ukr.] 9 no.6:754-758 N-1 '63.

(MiR: 17:8)

1. laboratoriya endokrinnykh funktsky instituta fizicarrii im. Bosomel'tea AN UkrSSR, Kiyev.

ZEFIROV, N.S.; FILATOVA, R.S.; YUR'YEV, Yu.K.

Behavior of dimethyl ester of 3-bromo-3,6-endoxohexahydro-phthalic acid in solcolysis. Zhur. ob. khim. 34 no.7: 2468-2469 Jl *64 (MIRA 17:8)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.

ZEFIROV, N.S.; IVANOVA, R.A.; FILATOVA, R.S.; YUR'YEV, Yu.K.

Deamination of methyl ester of exo-cis-2-amino-3,6-endoxo-hexahydrophthalic acid. Zhur.ob.khim. 33 no.10:3440-3441 0 *63. (MIRA 16:11)

1. Moskovskiy gosudarstvennyy universitet.

RESTROW, N.S.: VANOVA, R.A., THATOVA, R.S.; YUR'YEV, Yu.K.

3,6-Endoxotypichexanes and espelohexenes, Pars 26; Wagner-Menthed marrangement in deamination of 3,6-endoxohexahydro-anchrantic acid and its mobbyl ester. Zhur, ob. khim. 35 no.103.798el801 0 165.

1. Moskovskiy gosudarstvennyy universitet.

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L 1817-66 EVT(m)/EPF(c)/EWP(j) RM

ACCESSION NR: AP5025127 UR/0079/65/035/010/1807/1811
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AUTHOR: Zefirov, N. S.; Filatova, R. S.; Yur'yev, Yu. K. W.

TITLE: 3,6-Endooxacyclohexanes and -cyclohexenes. 28. Reactions of exo- and endo-dimethyl esters of 1-bromo-7-oxabicyclo[2,2,1]cycloheptane-2,3-dicarboxylic acid

SOURCE: Zhurnal obshchey khimii, v. 35, no. 10, 1965, 1807-1811

TOPIC TACS: oxabicyclic compound, heterocyclic compound, reaction mechanism, solvolysis

ABSTRACT: This work is a continuation of research on bicyclic compounds bearing a halogen atom at the bridge. Nucleophilic substitution is usually strongly inhibited in this class of compounds. Reactions following the SN₂ mechanism cannot take place because the back-side approach of the nucleophile preceding the Walden inversion is prevented. The SN₁ reactions, on the other hand, require the formation of a planar carbonium-ion intermediate, prevented by the rigid cage structure. It was of interest to determine whether more stable carbonium ions could be formed by bridge-halogenated oxabicyclic compounds, in which the carbonium ion would be stabilized by the adjacent ether function. The preparation of the exo(I) and

L 1317-66

ACCESSION NR: AP5025127

endo-dimethyl esters of 1-brow 7-oxabicyclo[2,2,1]heptane-2,3-dicarboxylic acid(II) had been described in an earlier paper. Solvlysis of both I and II is extremely slow. Boiling of I and II with aqueous ethanol in the presence of silver nitrate does not produce a precipitate of silver bromide, not even after several hours. Treatment with sodium acetate in acetic acid causes cis-trans isomerization of I. Alkaline hydrolysis leads to saponification without recoving the bromine atom. Treatment of I and II with sodium methoxide in methanol, however, produced a rapid appearance of bromide ions in solution. An unstable of its formed which readily yields a 2,4-dinitrophenylhydrazone. Infrared and ultraviolet spectral data indicate that the structure of the hydrazone is

Orig. art. has: 2 formulas.

ASSOCIATION: Moskovskiy gosudarstvenny universitet (Moscow State University)

Card 2/3

L 1817-66 ACCESSION NR: AP502	5127				0
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Card 3/3					

INTKIN, Nikolay Konstantinovich; FUSHKIN, P.S., kand. ekonom. nauk, retsenzent; FILATOVA, S.A., retsenzent; MADONOV, A.A., nauchnyy red.; PLEMYANNIKOV, M.N., red.; VINOGRADOVA, G.A., tekhm. red.

[Economics, organization and planning in the leather enterprises] Ekonomika, organizatsiia i planirovanie kozhevennykh predpriiatii. Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR, 1961. 359 p. (MIRA 15:2)

(Leather industry)

VERKHOVSKIY, I.M.; VINOGRADOV, N.N.; FILATOVA, S.M.; KOLESOV, R.I.; HOLLODIY, K.K.; GOLOVNIN, Yu.M.; GANOV, V.S.; SORCKIN, A.I.

Device for controlling the degree of loosening of the bed in a jigging machine. Gor. zhur. no.7:72 Jl '64. (MIRA 17:10)

GORSHKOV, Andrey Andreyevich; ZATULOVSKIY, Sergey Semenovich, inzh.; RUDENKO, Nikolay Grigor'yevich, inzh.; VOLOSHCHENKO, Mikhail Vasil'yevich, kand. tekhn. nauk; KLIBUS, Vladimir Vasil'yevich, inzh.; LUZAN, Petr Petrovich, kand. tekhn. nauk; KRAMARENKO, Oksana Yur'yevna, kand. tekhn. nauk; KULIKOVSKAYA, Ol'ga Varfolomeyevna, inzh.; FILATOVA, T.A., red.

[Cast iron with spheroidal graphite treated by rare-earth modifiers; problems of theory and practice] Chugun s sharo-vidnym grafitom, obrabotannyi redkozemel'nymi modifikatorami; voprosy teorii i praktiki. Kiev, Naukova dumka, 1964.
161 p. (MIRA 17:11)

1. Akademiya nauk URSR, Kiev. Institut problem litia.

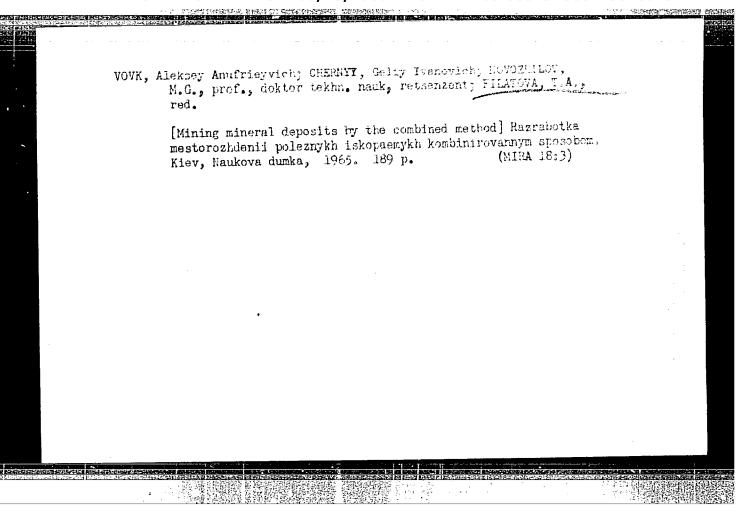
2. Chlen-korrespondent AN Ukr.SSR (for Gorshkov).

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020019-1"

SILIN, Nikolay Aleksandrovich; VITOSHKIN, Yuriy Konstantinovich; KARASIK, V.M., kand. tekhn. nauk, otv. red.; FILATOVA, T.A., red.

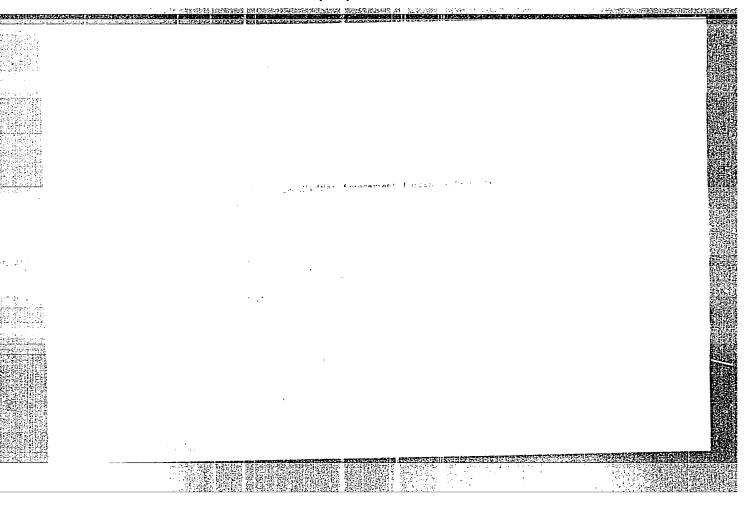
[Hydraulic conveying of coal in pipes and methods of its calculation] Gidrotransport uglia po trubam i metody ego rascheta. Kiev, Izd-vo AN USSR, 1964. 86 p.

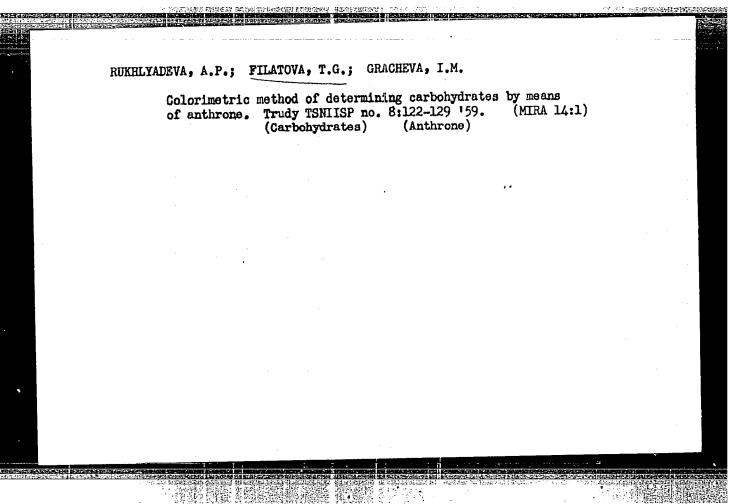
(MIRA 18:2)



ARTAMONOV, Aleksendr Yakovlevich; FILATOVA, T.A., red.

[Effect of the conditions of working on the physicomechanical state of ceramic metal materials] Vilianie uslovii obrabotki na flziko-mekhanicheskoe sostoiande uslovie was desemble with material over the state of ceramic metallo-keramicheskikh material over the state of ceramic metallo-keramicheskoe sostoiande uslovii obrabotki na flziko-mekhanicheskoe sostoiande uslovii obrabotki na flziko-mekhanicheskoe





RUKHLYADEVA, A.P.; FILATOVA, T.G.

Determination of unfermented carbohydrates in intermediate products of alcoholic fermentation. Spirt.prom. 28 no.2: 11-16 '62. (MIRA 15:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut spirtovoy promyshlennosti.
(Carbohydrates) (Fermentation)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020019-1"

RUKHLYADEVA, A.P.; FILATOVA, T.G.

Anthrone colorimetric method for determining sugar and starch in low concentration suspensions. Sakh. prom. 36 no.12:37-40 D *162. (MIRA 16:6)

l. TSentral'nyy nauchno-issledovatel'skiy institut spirtovoy i likero-vodochnoy promyshlennosti.

(Sugar-Analysis)

(Starch-Analysis)

(Colorimetry)

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1.	FILATOVA, T. I.		inite
2.	USSR (600)		
4.	June Bug (Lachnosterna)		
7•	Controlling grubs of the June bug in forest nurseries. Les i step! 4 No. 10, 1952.		
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9.	Monthly List of Russian Accessions, Library of Congress,	January 1953, Unclassifi	ed.

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\$/056/62/042/002/004/055 B102/B138

AUTHORS &

Demirkhanov, R. A., Leont'yev, N. I., Kosyy, I. A., Filatove.

TITLE:

Plasma instability in a toroidal discharge excited by a

traveling electromagnetic field

PERIODICAL:

Zhurnal eksperimentalincy i teoreticheskoy fiziki. v. 42

no. 2, 1962, 338 - 343

The oscillation frequency of a plasma produced by traveling electromagnetic H-waves in a torcidal glass chamber was studied experimentally in dependence on the discharge parameters. The traveling field was produced by a delay-line spiral with $R_{\text{wave}} = 16.5$ ohms, fed by 900 kc pulses

of 250 kw, duration $\tau = 4$ msec. H at the inner chamber walls was 150 oc. The phase velocity of the wave along the delay line was 5.6-107 cm/sec. The toroidal chamber was 180 mm in diameter, tube diameter 40 mm initial pressure 10⁻⁶ mm Hg, pressure during operation 4.10⁻³ - 1.10⁻¹ mm Hg. In

S/056/62/042/002/004/055 B102/B138

Plasma instability ...

spectroscopic measurements of a hydrogen discharge only the Balmer series was found. The radial distributions of the field components were measured with and without plasma. Some of the experiments were made in a uniform traveling field with closed delay-line spiral. At two points, where the phase shift was 90° and 8 waves were traveling along the line, with both generators operated at 1Mw and 1.5 Mc. H at the inner wall was 100 oe with plasma. The charged particle concentration

without, and ~550 oe with, plasma. The charged particle concentration was measured with two electric probes, azimuthal currents with a Rogovskiy pland and discharge brightness with a photocell An (Φ^p) (SFR-1) camera was used for the high-speed photography. The instabilities observed were oscillations in charged particle concentration, azimuthal current, brightness and h-f magnetic field amplitude. The oscillations were non-sinusorable but with an error of 15%, so that, with some approximation the envelope of the probe signals could be expanded into a Fourier series. Their frequency increased with H₂. At the maximum azimuthal current J₂ = 530 a.

these oscillations were observed in the whole range of operational pressures. The results show that the SE instabilities can only be due to interactions between J_z and the plasma. The oscillation frequency observed is of the Card 2/3

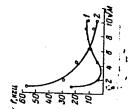
Plasma instability ...

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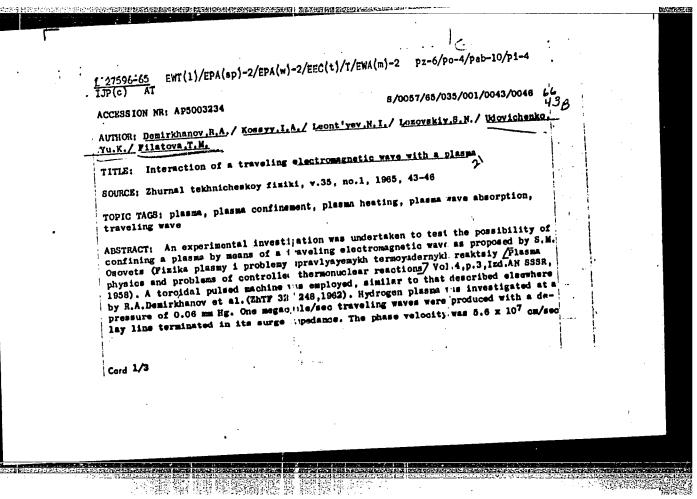
same order of magnitude as that of the ionic "sound", observed by A. V. Nedospasov (Paper No 217, Salzburg Conference on Plasma Physics and Controlled Thermonuclear Reactions, 1961). S. S. Germayeva, E. M. Barkhudarov are thanked for help, S. N. Lozovskiy and I. R. Yampol'skiy for discussions. V. P. Velikhov (Preprint IAE AN SSSR, 1960) and G. V. Gordeyev (ZhETF, 27, 19, 1954) are mentioned. There are 7 figures, 2 tables, and 7 references: 6 Soviet and 1 non-Soviet. The reference to the Englishlanguage publication reads as follows: P. C. Thonemann et al. Nature, 169, 34, 1952.

SUBMITTED: July 5, 1961

Fig. 7. Plasma oscillation frequency (kc) as a function of M atomic weight of the gas. (1) experimental curve, (2) magnetoacoustic frequency.



Gard 3/4



L 27596-65

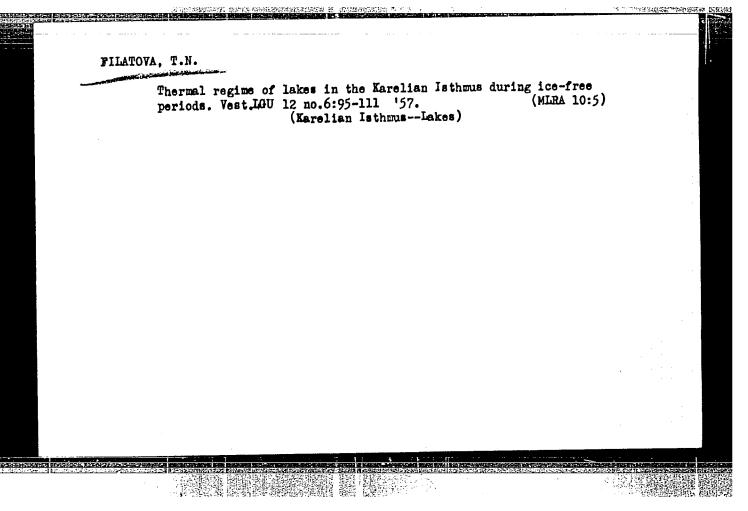
ACCESSION NR: AP5003234

and the maximum amplitude of the magnetic field was 230 Oe. The electron density and temperature and the longitudinal component of the high frequency magnetic field were measured at various distances from the axis to the discharge tube by means of were measured at various distances from the wais to the discharge tune by means of probes. The electron temperature was approximately constant at 60 000 °K and the electron density was of the order of 1014 cm⁻³. From the measured data the gradients of the places are approximately constant at 60 000 °K and the of the plasma pressure and the magnetic pressure were calculated. The plasma pressure gradient everywhere exceeded the magnetic; confinement of the plasma was accordingly not schieved. Some calculations are presented concerning the behavior of a plasma in a high frequency magnetic field. To achieve confinement it is not suf-Ticient simply to increase the magnetic field strength, for the high frequency field tends to heat the plasma. It is concluded that confinement can be achieved only in an incompletely ionized plasma with large electron density, in which energy can be transferred from the electrons to the walls of the chamber via the ions and the neutral particle. "The authors express their gratitude to 8.V.Kuril'nikov and N.V. Aleksandroy for constructing the power supply for the high-frequency discharge. Originations, 13 formulas and 2 discussions. Orig.art.has: 13 formulas and 2 f; qures.

Card 2/3

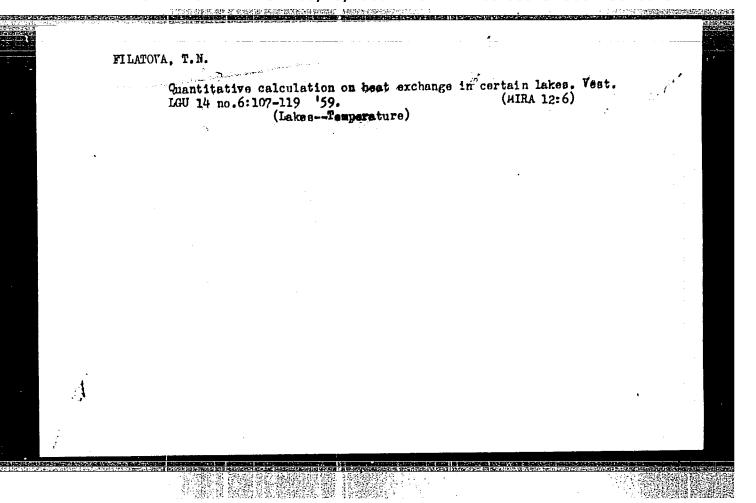
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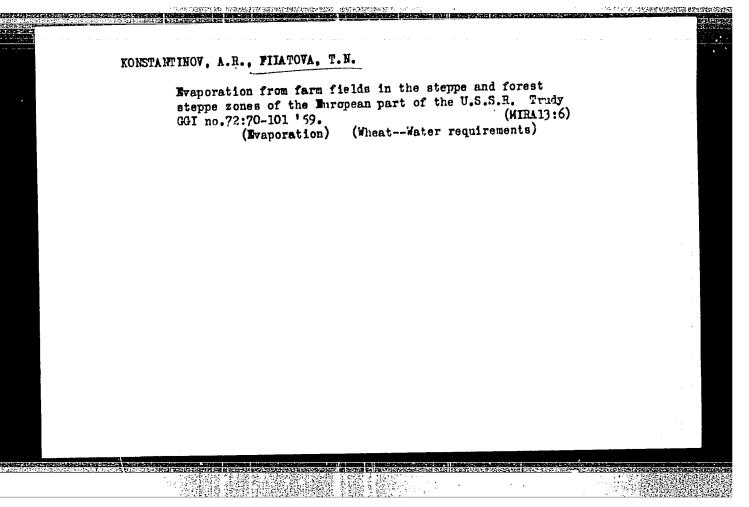
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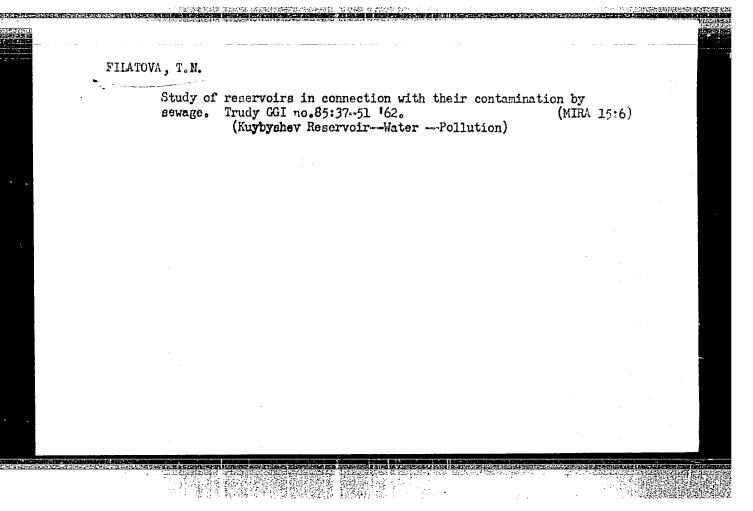


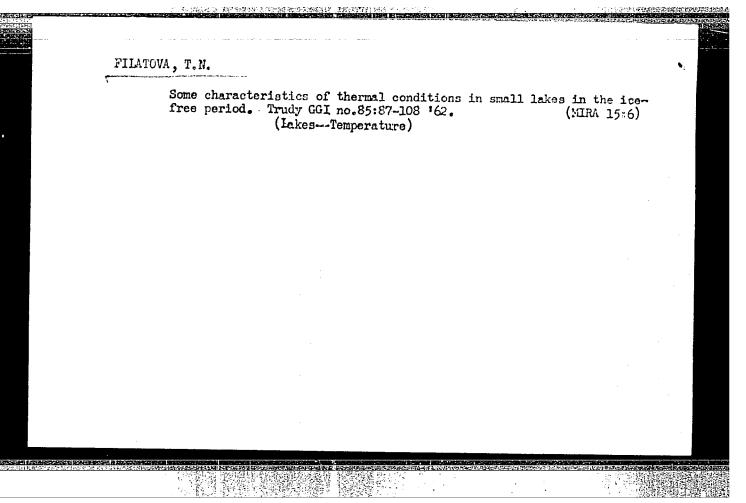
HLTCVI, T.H., Sond Geog Sci — (disc) "Forestion of the most regiment in certain small lakes of the north-estern part of the European USSR during the iceless period request." Ion, 1952. 19 pp (Len Order Lenin State U im A.A. Zhdonov), 150 copies (Y1,30-50, 102)

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FILATOVA, T.N.; MUKHACHEVA, I.A.

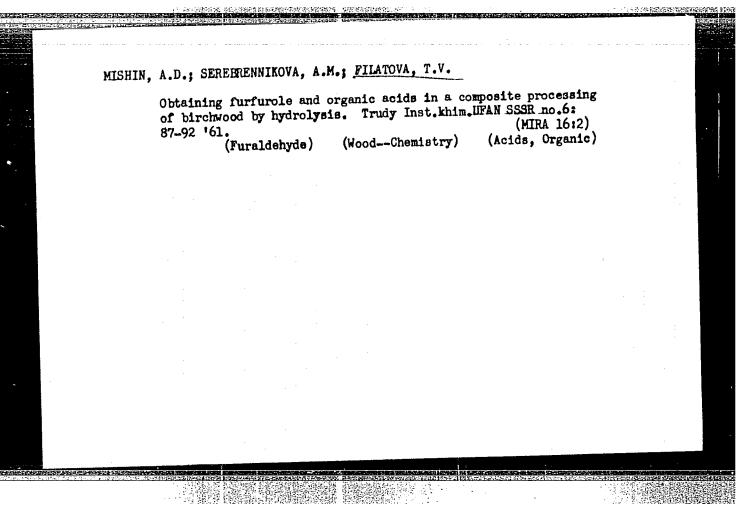
Studies of currents in inland bodies of water based on the example of the Tsimlyansk Reservoir. Trudy GGI no.113:82-118 '64.

(MIRA 17:11)

CHVETS', Grigoriy Ivanovich [Shvets' H. . .]; WARLYAK, V. I., Hosel. tokhi. neuk, otv. red.; FILNTOVA, T. O., red.

[Characteristics of the water content in Ukrainian rivers]
Kharakterystyky voinosti richek Ukrainy. Kyiv, Maukova dumka, 1964. 190 p.

(MIRA 17:11)



SOV/79-29-8-45/81

5(3) AUTHORS:

Yakubchik, A. I., Filatova, V. A.

TITLE:

Investigation of the Chemical Structure of Different Fractions

of Sodium-divinyl Rubber

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2658-2663 (USSR)

ABSTRACT:

A comparative investigation of the degree of branching of the macromolecules of divinyl rubber is of considerable scientific and practical interest, since this problem is related to the interpretation of the polymerization mechanism and with the dependence of the structure of the highly molecular compounds on their properties (Ref 1, and I. Ya. Poddubnyy, Ref 2). In the present paper, the comparative investigation of the chemical structure of eight fractions of sodium divinyl rubber was carried out in order to determine their degree of branching. The separation of the fractions of this rubber was performed by means of fractional precipitation (Ref 3) (Table 1). The chemical structure of the fractions separated was determined by means of oxidizing decomposition of the ozonides (Refs 4,5). The resultant acids (levulinic, acetic, formic, succinic, 1,2,4-butane-tricarboxylic, 1,2,3-propane-tricarboxylic, 1,2,4,6-hexane-tetracarboxylic acid) were separated by means of selective chromatography; according to the chromatograms, the

Card 1/3

Investigation of the Chemical Structure of Different SOV/79-29-8-45/81 Fractions of Sodium-divinyl Rubber

percentage content of the carbon skeleton of the polymer in them was also calculated (Table 2. and figure of the chromatogram). The sodium divinyl rubber obtained at 400 was divided into 8 fractions according to the fractional precipitation method, with molecular weights of 835000 up to 20000. According to the methods of infrared spectroscopy, and of ozonolysis, the percentage content of the links (1,2) was determined which is practically the same in all fractions. It was found by means of the ozonolysis that all fractions contain parts with macromolecules of the same structure and comparatively same size. In all fractions macromolecules were found which were branched at the α -methylene groups, and had the same size. This indicates that the branching of the fractions investigated is the same. In the experimental part, the determination of molecular weights, elementary composition, degree of unsaturation (according to the method of Kenp-Vasil'yev, Ref 11), percentage content of double bonds, and the ozonolysis are described in detail. There are 1 figure, 3 tables, and 18 references, 12 of which are Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State Card 2/3

Investigation of the Chemical Structure of Different Fractions of Sodium-divinyl Rubber

SOV/79-29-8-45/81

University)

SUBMITTED: July

July 19, 1958

Card 3/3

s/080/60/033/005/007/008

AUTHORS:

Yakubchik, A.I., Filatova, V.A.

TITLE:

The Investigation of the Chemical Structure of Divinyl Rubbers

Subjected to the Action of T-Radiation &

PERIODICAL: Zhurnal prikladnov khimii, 1960, Vol 33, No 5, pp 1177 - 1182

TEXT: The effect of \(\) -radiation on the chemical structure of divinyl rubbers with a low (14%) and a high (70%) content of 1,2 links was studied. The chemical structure of the rubbers which were subjected to various doses of \(\) -irradiation was determined by the method of ozonolysis. The mixture of acids obtained in the oxidation decomposition of ozonides was separated by the method of distribution chromatography. The percentage of the carbon skeleton of the polymer was calculated from the chromatograms obtained in the acids. The chromatograms obtained do not differ qualitatively from the chromatograms of the initial rubbers irradiated, but the height of the peaks on them decreases when the irradiation dose increases. Based on the decrease of the peak height a conclusion can be drawn on the decreasing number of double bonds in 1,2 and 1,4 links, from which the following sections are built

Card 1/2

s/080/60/033/005/007/008

The Investigation of the Chemical Structure of Divinyl Rubbers Subjected to the Action of γ -Radiation

up: 1,4-1,4; 1,4-1,2-1,4; $1,4-(1,2)_2-1,4$. In the products of ozonolysis of divinyl rubbers containing 70% 1,2-links and 14% 1,2-links, formic acid and formic aldehyde were determined. In the case of 70% 1,2 links, the content of formic acid and aldehyde decreased, in the second case they increased. It is evident that in the macromolecules with a low content of 1,2 links new sections appear which can form formic acid and aldehyde during There are 4 tables, 3 graphs, and 19 references: 12 Soviet, 5 English, 1

German and 1 American

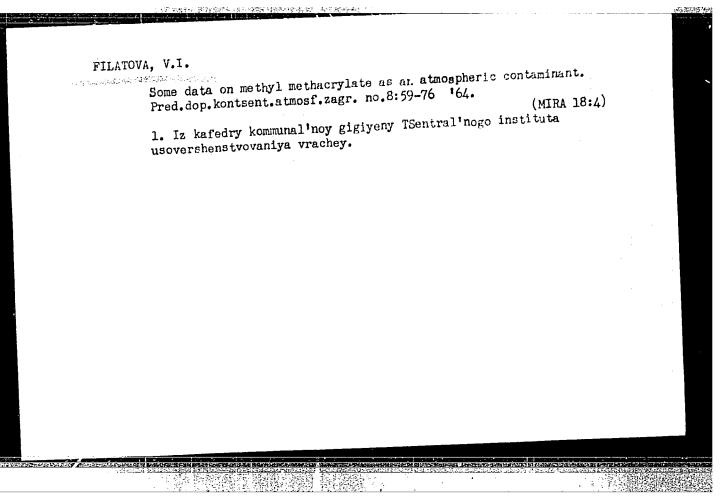
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November 25, 1959 SUBMITTED:

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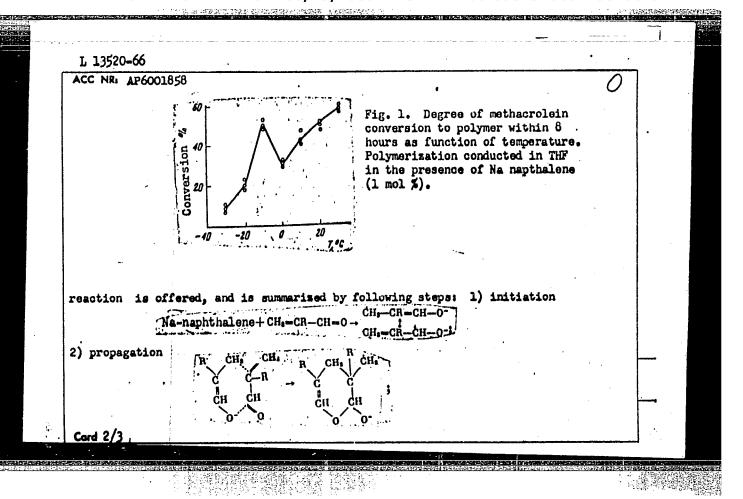


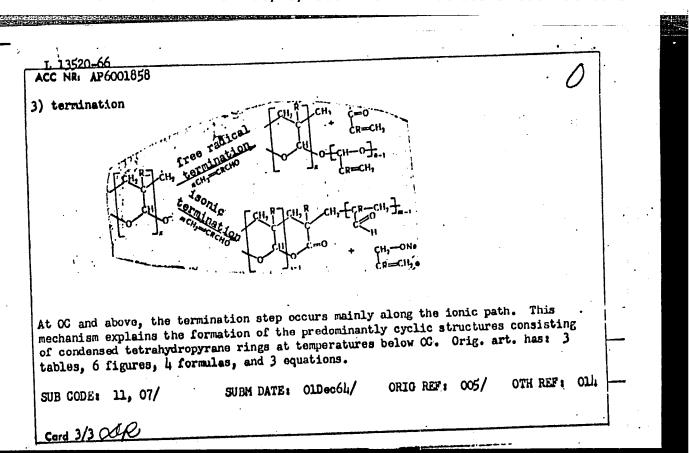
FIL'CHAKOVA, V.P.

Numerical method of conformal mapping of exterior simply connected domains. Dop. AN URSR no.9:1127-1132 '64. (MIRA 17:11)

1. Institut matematiki AN UkrSSR. Predstavleno akademikom AN UkrSSR G.N. Savinym [Savin, H.M.].

EWT(m)/EWP(j)/T SOURCE CODE: UR/0190/65/007/012/2039/2047 AUTHORS: Koton, M. M.; Andreyova, I. V.; Gotmanchuk, Yu. P.; Madorskaya, L. Ya.; Pokrovskiy, Ya. I.; Kol'tsov, A. I.; Filatova, V. A. ORG: Institute of High-Molecular Polymers AN SSSR (Institut vysokomolekulyarnykn soyedineniy AN SSSR) TITLE: Structure of methacrolein polymors, obtained in the presence of anionic catalysts. 3rd report in the sories Polymerization of Acrolein and Its Derivatives SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2039-2047 TOPIC TAGS: polymerization, polymer structure, reaction mechanism, catalyst/ Nippon Bunko infrared spectrophotometer DS 301, GNM 3 nuclear magnetic resonance spectrometer ABSTRACT: The structure of polymers obtained from methacrolein and & -ethylacrolein in the presence of sodium naphthalene and sodium trityl using the method described by M. M. Koton, I. V. Andreyeva, and Yu. P. Getmanchuk (Dokl. AN SSSR, 155, 836, 1964) was investigated. The structure analysis was performed by chemical means: oxime formation, hydrogenation, oxidation with perbenzoic acid, ozonization, as well as by physical means: infrared spectra, using Nippon-Bunko spectrophotometer DS-301, and NMR spectra, using instrument GNM-3. It was established that the rate of conversion of methacrolein and the structure of the obtained polymer are both functions of the q,ψ polymerization temperature, as illustrated in Fig. 1. Hechanism of the polymerization Card 1/3

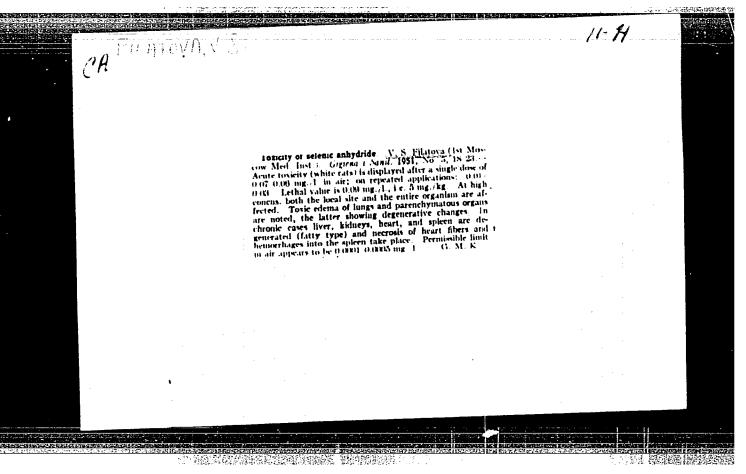




FILATOVA, V. S.

"Materials on the Characteristic of Selenium as an Industrial Poison." Thesis for degree of Cand. Medical Sci. Sub 23 Jun 49, First Moscow Order of Lenin Medical Inst.

Summary 82, 18 Dec 52, <u>Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949</u>. From <u>Vechernyaya Moskva</u>, Jan-Dec 1949.



FILATOVA, V.S. Volatility of selenium and selenious anhydride. Gigiena i Sanit. '53, Ho.4, 50. (CA 47 no.21:10935 '53) 1. 1st Moscow Med. Inst.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020019-1"

FILATOVA, V.S.

USSR/Safety Engineering. Sanitary Engineering. Sanitation

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 14269

Author : Filatova V.S., Gronsberg Ye.Sh.

Title : Sanitary-Hygienic Aspects of Working Conditions in the

Manufacture of Polyvinylchloride Resin and Ways of Impro-

ving Them

Orig Pub : Glgiena i sanitariya, 1957, No 1, 38-42

Abstract : Sanitary-hygienic conditions of work in the manufacture

of polyvinylchloride resins are characterized by the presence in the air of work areas of vapor of vinyl chloride (I), usually at a concentration of 0.05-0.8 mg/liter, and also by a high temperature of the air (26-42° in winter and spring, 33-58° in summer, with the outdoor temperature being, respectively, of -6 (to -14) and 21.5-27.5°). Persons engaged in this work have exhibited cases of to-

xic angioneurosis, which included cases among women wor-

kers at the department of drying of polyvinyl chloride

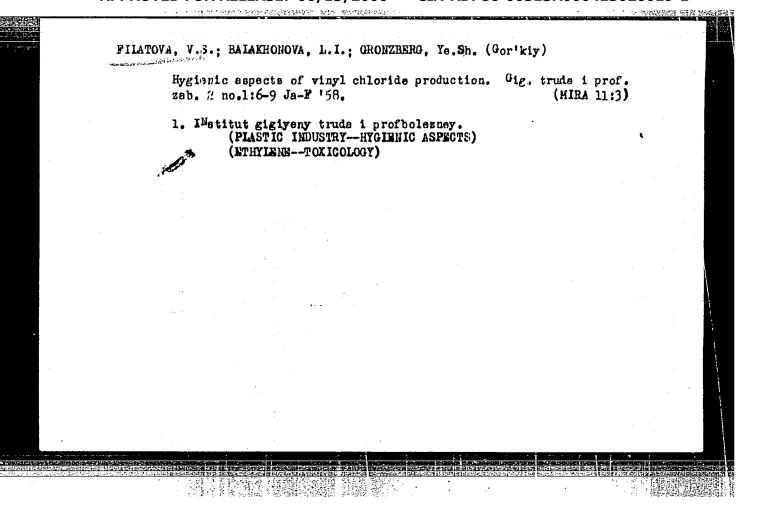
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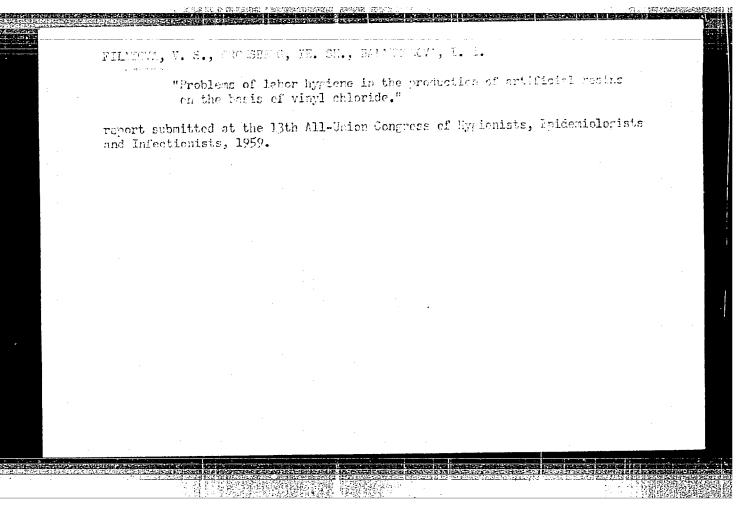
_ 4 _

ASHBEL', S.I.; FILATOVA, V.S. (Gor'kiy)

Basic tasks in the prevention of occupational poisoning smong workers of chemical industries. Gig.truda i prof. mab. no.4:
12-16 Jl-Ag '57. (MIRA 10:11)

1. Institut giglyeny truda i profmabolevanii (CHEMISTRY, TECHNICAL—SAFETY MEASURES)
(INDUSTRIAL TOXICOLOGY)





GAVRUSEYKO, O.M.; FILATOVA, V.S. (Gor'kiy)

Ivaluation of hygienic aspects of some types of drying apparatus used in the chemical industry. Gig.truda i prof.zab. 3 no.1: 32-39 Ja-F '59. (MIRA 12:2)

1. Institut gigiyeny truda i profzabolevaniy. (DRYING APPARATUS)

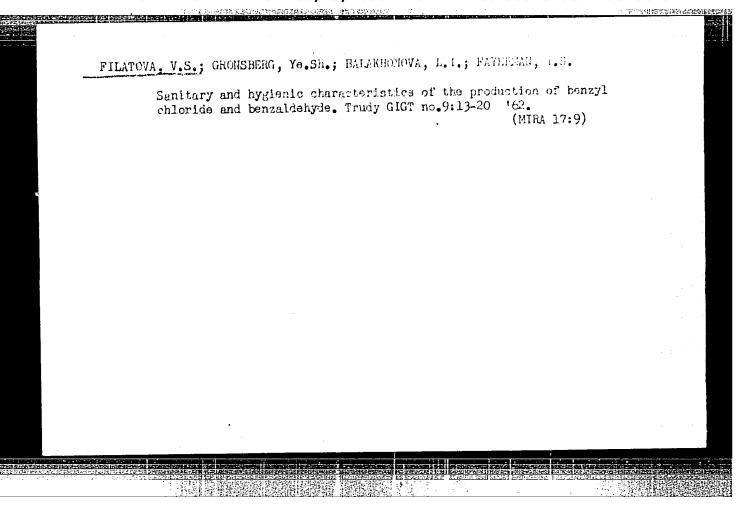
FILATOVA, V. S.; GRONSBERG, Ye. Sh.; BABCCHKINA, M. S. (Gor'kiy)

Problems of industrial hygiene in the production of vinyl chloride

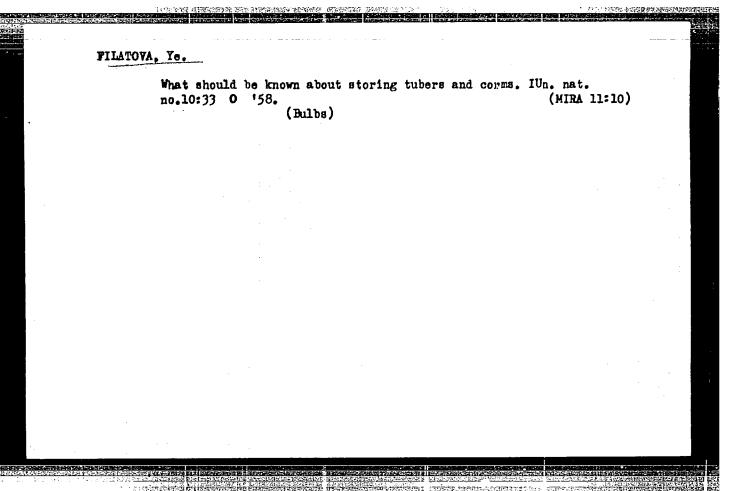
Problems of industrial hygiene in the production of vinyl chloride from acetylene. Gig. truda i prof. zab. no.2:10-15 (62. (MIRA 15:2)

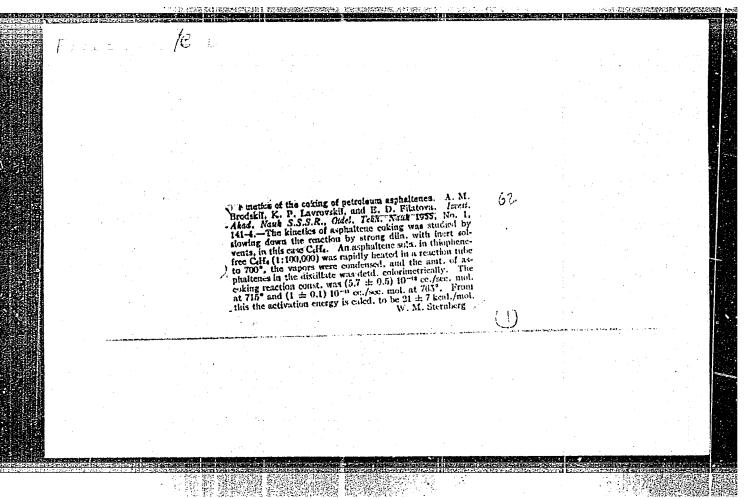
1. Gor'kovskiy nauchno-issledovatel'skiy institut gigiyeny truda i profbolezney.

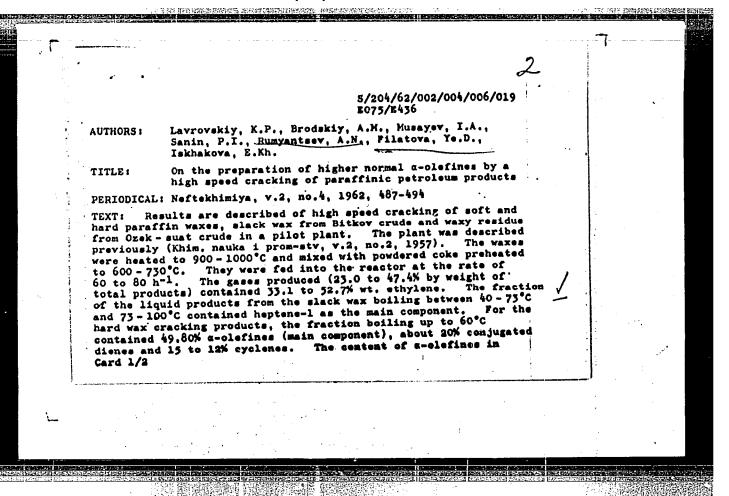
(INDUSTRIAL HYGIENE) (ETHYLENE) (ACETYLENE)



Bapid sentingices colorinately determination of Mithium; in relication and cross. V. A. Nearento and V. Ya. Filianton. 24th. Anal. A. Khim. S. 24th. 4(1900). — The mitted of the colorinate relication of the colorinate relication of the colorinate relication of the colorinate relication of the following the per content by 0.124 (cf. Protte and Soul, C. J. 34, 1271). Regers and Colory, C. J. 34, 1271. Regers and Colory, C. J. 34, 1271







	S/204/62/002/004/006/019 E075/E436 the 60-175°C fraction was 70.4% (13.6% hexene-1, 17.1% heptene-1, 15% octene-1, 11.9% nonene-1, 12.8% decene-1). In general it was shown that the benzene from the high speed cracking of it was shown that the benzene from the high speed cracking of paraffin waxes consisted mainly of a-paraffine, their content in paraffin waxes consisted mainly of slack wax and waxy residue being benzenes from the cracking of slack wax and waxy residue being much lower. There are 11 tables.	
The second secon	ASSOCIATION: Institut neftekhimicheskogo sintera AN SSSR (Institute of Petrochemical Synthesia AS USSR)	

5(4) 50V/20-122-6-22/49

AUTHORS: Brodskiy, A. M., Kolbanovskiy, Yu. A., Filatova, Ye. D.,

Chernysheva, A. S.

TITLE: On the Radiolysis of Heptane (O radiolize geptana)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 6, pp 1035-1038

(USSR)

ABSTRACT: The present paper investigates the γ-radiolysis of normal

heptane in the liquid phase and the radiolysis of a solution of dibenzyl-sulfide in heptane. These investigations were carried out mainly for the following purposes: Determination of the exact kinetics of radiolysis in the initial ranges, determination of the influence of an interruption of irradiation, and determination of the exact composition and yield of the gas within a wide dose-interval (extending over more than 3 orders of magnitude). Dibenzyl-sulfide (5.011 · 10-4M)* was added to the heptane for the purpose of clearing up the particular feature of the behavior of aromatic sulphur compounds in the radiation field and for the purpose of determining the influence exercised by the presence of similar additions upon

influence exercised by the presence of similar additions upon

Card 1/3 paraffin radiolysis. In the case of small doses, the X-ray

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apparatus Py \(\Pi - 3 \), and for larger doses Co to were used as radiation sources. In the case of small doses, direct proportionality between the gas yield and the duration of radiation was observed. Interruption of irradiation caused a synchronous interruption of gas separation. Otherwise, no "radiation hysteresis" with respect to gas separation was observed, an assertion, which is strictly true. A diagram shows the dependence of the hydrogen- and methane yield on the dose for pure heptane and for a dibenzyl-sulfide solution. Dibenzyl-sulfide reduces heptane radiolysis. Next, the fraction of C2-C5 gas is investigated; the results of the gas analysis are shown in a table. There follow some comments on the results obtained: 1) The nonlinear effects begin with integral doses of eV/ml and occur in all components. 2) The direct disruption of C-C bonds is of particular importance in the radiolysis of alkanes. 3) The presence of acetylene in the gaseous products of radiolysis is pointed out. 4) Also the great variety of gaseous products of radiolysis is of essential importance (among them there are comparatively many isomeric structures). 5) The gaseous products of a dibenzylsulfide solution contain no hydrogen sulfide. In this case the protective effect is due to a transmission of the excitation.

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The authors thank S. I. Mironov, Academician, and K. P. Lavrovskiy, Corresponding Member, AS USSR, for valuable advice, and they also thank N. N. Naymushin for his assistance in carrying out gas analyses. There are 2 figures, 2 tables, and 5 references, 4 of which are Soviet.

ASSOCIATION: Institut nefti Akademii nauk SSSR (Petroleum Institute of

the Academy of Sciences, USSR)

PRESENTED: June 4, 1958, by S. I. Mironov, Academician

SUBMITTED: June 3, 1958

Card 3/3

BRODSKIY, A.M.; LAVROVSKIY, K.P.; NAYMUSHIN, M.N.; TITKOV, V.B.; FILATOVA, Ye.D.

Chromatographic analysis of mixtures of alkylenes and diolefins. Thim. i tekh.topl. i masel 4 no.3:30-32 Mr '59.

(MIRA 12:4)

1. Institut nefti AN SSSR.
(Chromatographic analysis) (Olefins)

Card 1/3

S/062/60/000/008/010/012 B004/B054

AUTHORS: Brodskiy, A. M., Lavrovskiy, K. P., and Filatova, Ye. D.

TITLE: High-temperature Dehydrogenation of Ethyl Benzene

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1960. No. 8, pp. 1490-1494

TEXT: The authors report on their investigations of the kinetics of dealydrogenation of ethyl benzene at temperatures between 660 and 740°C. They discuss data in publications (Refs. 2, 3), and explain contradictions by the fact that at high temperatures the styrene yield depends on the reaction period. To obtain a high styrene/yield it was necessary to guarantee a short reaction period and a quick, steady heating. This was attained by means of a pseudoliquid coke powder layer. Fig. 1 shows the experimental arrangement. Heating was performed by a graphite spiral passed through by current. The ethyl benzene gasified and mixed with CO₂ or N₂ was introduced from below into the reaction tube (diameter 40 mm). 50 cm³ of coke (particle diameter 0.1 - 0.5 mm) were piled on a screen. CO₂ was admixed at the outlet of the reaction tube for a quick cooling and rarefaction of the

High-temperature Dehydrogenation of Ethyl Benzene S/062/60/000/008/010/012 B004/B054

reaction product. The latter was collected in vessels cooled with liquid nitrogen. In the distillate, the styrene was determined by the scattle number, and the amount of the resulting benzene and toluene by fractionstion. Table 1 lists the experimental results at 660, 690, 720, and 740°C and the reaction period to The styrens yield was 55% at 560°C, and 70-75% as higher temperatures. Benzene and toluens yields were about 1.9% at 120°C and 8-0% at 740°C. Replacement of the coke powder by quartz powder and not change the test results. Equation (6) is written down for evaluate ing the experimental data: $1/(1-\pi)=1+k(\tau/\alpha)$, (τ - styrene content of the distillate, k = reaction constant, a = coefficient of volume increase withe reacting gases). The graphic representation $1/(1-\tau) = f(\tau)$ in Fig. 2 confirms the course of a first-order reaction. Hence, the reaction constant for the four test temperatures was calculated (Table 2). Fig. 3 shows the function in k = f(1/T). The activation energy was found to be 44 ± 2 koal/mole. There are 5 figures, 2 tables, and 8 reterentes: 6 Seviet and 2 US.

ASSOCIATION:

Institut neftekhimicheskogo sinteza Akademii nauk SSSR (Institute of Petroleum-chemical Synthesis of the Academy of Sciences, USSR)

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High-temperature Dehydrogenation of Ethyl Benzene S/Ob2/60/000/008/0-3/012

SUBMITTED: March 16, 1959

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5(3) AUTHORS:

Petrov, A. D., Sadykh-Zade, S. I.,

SOV/79-29-9-26/76

Filatova, Ye. I.

TITLE:

On the Addition of Hydrosilanes to a, \beta-Unsaturated

Acids and Their Esters

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 2936-2939

(USSR)

ABSTRACT:

Recently the authors found (Ref 1) that trialkyl- and aryl alkyl silanes add to α,β -unsaturated aldehydes and ketones only in 1,4-position in the presence of a 0.1n. solution of H_2PtCl_6 in isopropyl alcohol, under the formation of siliconcontaining vinyl ethers. They investigated this reaction on the basis of acrylic aldehyde, methylvinyl ketone, and their various analogs with substituents in β -position. It was an interesting experiment to add the hydrosilanes also to the α,β -unsaturated acids and their esters, all the more as publications (Ref 2) described the addition of methyl dichloro silane to methylacrylate in the presence of platinum on carbon in the autoclave at a heating of sixteen hours' dura-

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tion at 125°; a simultaneous addition in both the 1,4- and 1,2-position was found to take place. It was, therefore, not

On the Addition of Hydrosilanes to α,β-Unsaturated Acids and Their Esters

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possible to deny a priori the influence exerted by experimental conditions on the order of addition. The below-mentioned experimental results obtained by the authors showed that also under their conditions methyl dichloro silane adds to methylacrylate simultaneously in 1,2- and 1,4-position. It was further found that trichloro silane adds only in 1,2-position to this ester, and triethylsilane only in 1,4-position (this holds also for the free acid). Thus, it was found that the order of addition changes gradually in the replacement of the alkyl radicals in the trialkylsilanes by the more electronegative halogen radicals (Scheme). Trialkylsilane adds also to methyl methacrylate in 1,2-position, which indicates that the order of addition depends also on the structure of the α,β -unsaturated carbonyl compounds. The addition of alkyl dichlorosilanes in the presence of H2PtCl6 proceeds in the same way as in heating with platinum on carbon, i.e. simultaneously in 1,2- and 1,4-position. There are 8 references, 3 of which are Soviet.

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On the Addition of Hydrosilanes to α,β -Unsaturated SOV/79-29-9-26/76

Acids and Their Esters

ASSOCIATION:

Institut organicheskoy khimii Akademii nauk SSSR (Institute of Organic Chemistry of the Academy of Sciences, USSR)

SUBMITTED:

September 4, 1958

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