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Critical Phenomena and Fluctuations Shimanskaya, Ye. T., Yu. I. Shimanskaya, Oratory of Molecular Physics, Divisionate University imeni T. G. Shevehor the Critical State of Pure Substance Resolution of the Conference on Crit	nko]. Investigation of a by Tepler's Hethod	171 189			
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NOZDREV V F

PHASE I BOOK EXPLOITATION SOV/5207

Vserossiyskaa konferentsiya professorov i prepodavateley pedagogicheskikh institutov.

Primeneniye ultraakustiki k issledovaniyu veshchestva (Utilization of Ultrasonics for the Investigation of Matter) Moscow, Izd. MOPI, 1960. 267 p. 1,000 copies printed. (Series: Its Trudy, vyp. 11)

Ed. (Title page): V.F. Nozdrev, Professor and B.B. Kudryavtsev, Professor.

PURPOSE: This collection of articles is intended for physicists specializing in the physics of ultrasound.

COVERAGE: The collection of articles constitutes the transactions of the VII Conference on the Applications of Ultrasonics to the Study of Materials, which was held at the Moscow Oblast Pedagogical Institute imeni N.K. Krupskaya. Individual articles of the collection discuss—various problems in the wave mechanics of ultrasound, the absorption and the propagation mechanics of ultrasonic waves in various media, the operating principle and design of generators and receivers of ultrasonic waves, the speed of sound and methods for its determination. Other articles deal with the applications of ultrasonics to investigations of the properties of materials. No personalities are mentioned. References accompany each article.

Card-1/7-

•	Utilization of Ultrasonics (Cont.) SOV/5207	
	TABLE OF CONTENTS:	
	Nozdrev, V.F., and A.A. Glinskiy [MOPI imeni N.K. Krupskoy-Moscow Oblast Pedagogical Institute]. Problems of Anomalous Absorption of Ultrasonic Waves in Liquids	3
	Kwiek, M., Z. Losińska-Prusowa, and S. Prus [University of Poznań, Poland]. Application of the Kinetic-Molecular Theory of Gases to the Problem of Waves of Finite Amplitude	17
	Zipir, A.D., and V.F. Yakovlev [Moscow Oblast Pedagogical Institute imeni N.K. Krupskaya]. Elementary Theory of the Crystal Transformer Operating as a Receiver	29
	Kal'yanov, B.I. [Tambovskiy pedinstitut-Tambov Pedagogical Institute]. Some Problems of the Theory of Crystal Transformers	41
	Kudryavtsev, B.B. [Moscow Oblast Pedagogical Institute imeni N.K. Krupskaya]. Calculation of Speeds of Sound in Binary Mixtures	63
	Card 2/7	

NOZDREV, V.F.

## PHASE I BOOK EXPLOITATION SOV/5644

- Vserossiyskaya konferentsiya professorov i prepodavateley pedagogicheskikh institutov
- Primeneniye ul' traakustiki k issledovaniyu veshchestva. vyp. 10. (Utilization of Ultrasonics for the Investigation of Materials. no. 10) Moscow, Izd-vo MOPI, 1960. 321 p. 1000 copies printed.
- Eds.: V. F. Nozdrev, Professor, and B. B. Kudryavtsev, Professor.
- PURPOSE: This book is intended for physicists and engineers interested in ultrasonic engineering.
- COVERAGE: The collection of articles reviews present-day research in the application of ultrasound in medicine, chemistry, physics, metallurgy, ceramics, petroleum and mining engineering, defectoscopy, and other fields. No personalities are mentioned. References accompany individual articles.

Card 1/10

Utilization of Ultrasonics (Cont.)	SOV/5644	-
TABLE OF CONTENTS:		
Nozdrev, V. F. Physical Principles of the Engi Technical Use of Low-Amplitude Molecular A	neering and coustics 3	
Larionov, N. I., G. V. Goryachko, N. A. Dmitt B. E. Geller [Kalininsk pedinstitut im. M. I. Kalininsk. filial VNIIV-Kalinin Pedagogical In M. I. Kalinin, Kalinin Branch of the All-Union Research Institute for High Polymers]. Invest Degradation Processes in High Polymers Under of an Ultrasonic Field	. Kalinina, stitute imeni i Scientific tigation of	
Kogan, I. N., L. I. Menes, and N. I. Parlashke t plastmass - Scientific Research Institute for Continuous Measurement of Viscosity With the Ultrasonic Viscometer	vich [Ni. in- Plastics]. Aid of an	
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S/194/61/000/001/017/038

**AUTHOR:** 

Nozdrev, V.F.

TITLE:

Physical foundations of engineering and technological applications of small amplitude ultrasonics

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 1, 1961, 13, abstract 1 El18 (V Sb. Primeneniye ul'traakust. k issled. veshchestva, no. 10, M.,

1960, 3-12)

Basic practical possibilities of the use of small amplitude TEXT: ultrasonics are suggested. The fundamentals of operation are given of ultrasonic instruments for determination of compressibility and thermal capacity of liquids, for determination of temperature, crystallization point of paraffins, of viscosity and of impurities in liquids and gases. The problem of application of small amplitude ultrasonics to the mechanization of industrial processes is discussed.

Card 1/1

3/058/62/000/004/082/160 A061/A101

AUTHORS:

Nozdrev, V. F., Glinskiy, A. A.

TITLE:

Similarity between the coefficients of absorption and ultrasonic velocities and the thermal capacity ratio, measured by the saturation characteristic in organic liquids and their superheated vapors

in the critical region

PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 39, abstract 4G326 (Sb. "Primeneniye ul'traakust. k issled. veshchestva", no. 12, Moscow,

1960. 81-85)

It is shown that the ratio of similitude  $x/x_n = f(T/T_{cr}; A)$ , where T/Tcr is the reduced temperature and A is the determining criterion, is satisfied for the sound velocity absorption coefficient and for the thermal capacity ratio near the critical temperature. However, a similarity of  $C_{\boldsymbol{v}}$  is not observed.

[Abstracter's note: Complete translation]

Card 1/1

\$/058/61/000/009/049/050 A001/A101

AUTHORS: Nozdrev, V.F., Kal'yanov, B.I., Shirkevich, M.G.

TITIE: Ultra-acoustic studies in organic liquids at a constant density near

critical state

PERIODICAL: Referativnyy zhurnal. Fizika, no. 9, 1961, 294, abstract 9Zh437 (V sb. "Kritich. yavleniya i fluktuatsii v rastvorakh", Moscow, AN SESR,

1960, 93 - 101)

TEXT: The authors measured the velocity c of ultrasound and absorption  $\alpha$  in methyl alcohol at  $\sim 6$  Mc and in ethyl acetate at 10-33 Mc at a constant density. It follows from the measurement results that at  $\rho = {\rm const.}$ ,  $T = {\rm const.}$ , function c = c(p) (p is pressure) has a minimum and function c = c(p) has a maximum at the pressure of saturated vapor. At  $\rho = {\rm const.}$  near the saturation line, there is a pretransition region in which  $\rho = {\rm const.}$  and  $\rho = {\rm const.}$  T change their signs. On the basis of experimental results, heat capacity of methyl alcohol is determined. In the subcritical region at the pressure of saturated vapor,  $c_p$ ,

Card 1/2

Ultra-acoustic studies ...

S/058/61/000/009/049/050
A001/A101

cv, and cp/cv show discontinuities. In ethyl acetate relaxation frequency (~14
Mc) does not change in the temperature range from 20 to 160°C if p = const. Dispersion is calculated to be con - co = 0.1 - 0.2 m/sec.

L. Zarembo

[Abstracter's note: Complete translation]

Card 2/2

MALYAVIN, I.G.; YAKOVLEV, V.F.; NOZDREV, V.F.

Investigation of the temperature dependence of the kinematic viscosity of certain organic liquids and their saturated vapors in the critical region. Uch. zap. MOPI 92:3-21 '60. (MIRA 14:9) (Organic compounds) (Viscosity)

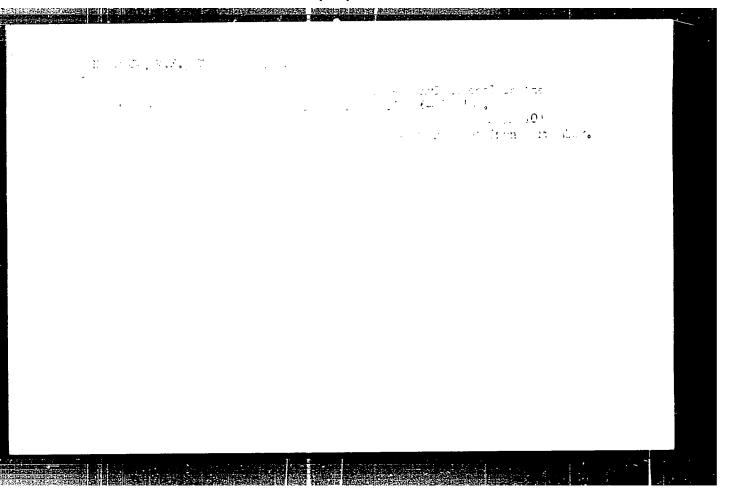
NOZDREV, Vasiliy Fedorovich; PERKOVSKAYA, G.Ye., red.; GARINA, T.D., tekhn. red.

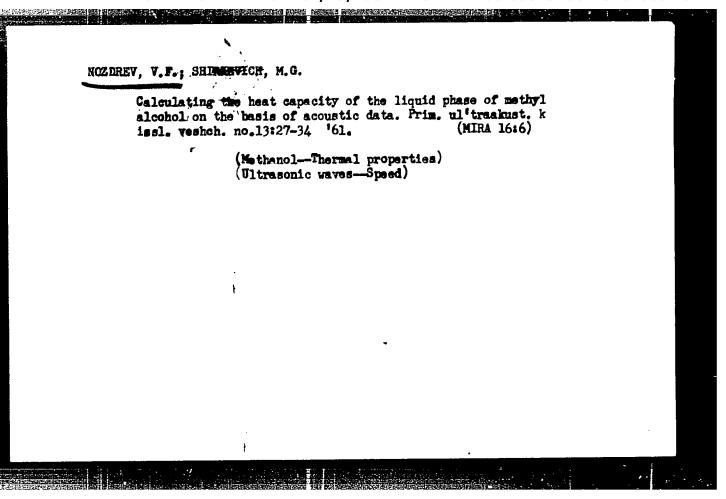
[Course in thermodynamics] Kurs termodinamiki. Moskya, Gos. izd-vo "Vysshaia shkola," 1961. 250 p. (MIRA 15:1) (Thermodynamics)

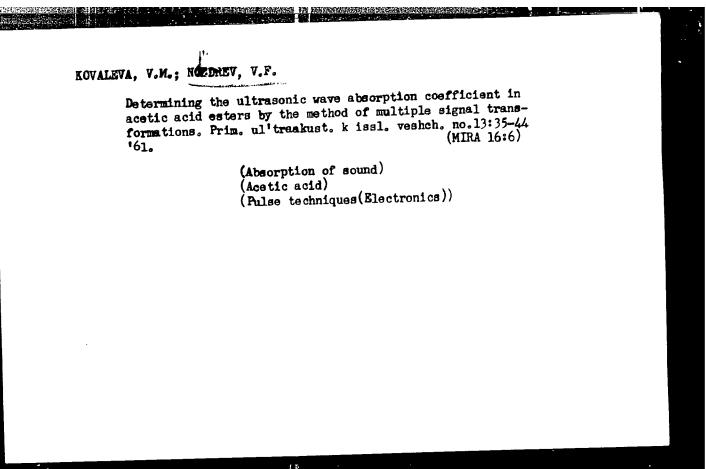
NOZDREV, V.F.; OSADCHIY, A.P.; RUBTSOV, A.S.

Investigation of ultraconic velocity in water along the saturation line, including the critical region. Akust. zhur. 7 no.3:363-384 (MIRA 14:9)

1. Stalingradskiy sel'skokhozyaystvennyy institut i Moskovskiy oblastnoy pedagogicheskiy institut imeni N.K. Krupskoy. (Ultrasonic waves--Speed) (Underwater acoustics)







KOVALEVA, V.M.; NOZDREV, V.F.

Study of the absorption coefficient of ultrasonic waves in formic acid esters at low frequencies. Prim. ultraskust. k issl. veshch. no.13:329-332 '61. (MIRA 16:6)

A CONTROL OF THE PROPERTY OF T

(Absorption of sound) (Formic acid—Acoustic properties)

MOZDREY, V.F. AND GORBINOY, M.A.

Wüntersuchung der absoprtion der unltraschalls auf dem schmelzungsgebet der molekularen crystal.

Paper presented at Fourth Intl. Congress on Acoustics Copenhagen, 21-28 Aug 1962

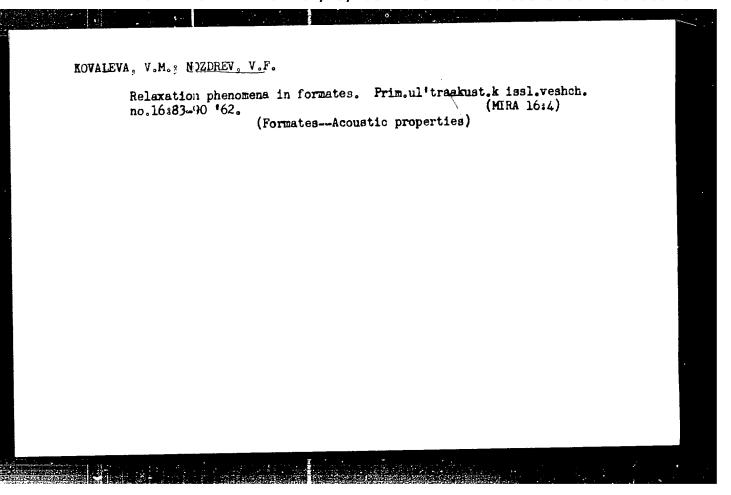
GORBUNOV, M.A.; KOSHKIN, N.I.; NOZDREV, V.F.; SHELOPUT, D.V.

Use of ultra-acoustic methods in studying organic substances in the liquid polycrystal transition region. Ukr. fiz. zhur. 7 no.8:898-905 S '62. (MIRA 16:1)

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.Krupskoy.
(Absorption of sound) (Organic matter)

GUSEVA, O.N.; NOZDREV, V.F.

Use of the optical method in measuring the absorption of ultrasonic waves by superheated saturated hydrocarbons. Prim.ul'trasakust.k issl.veshch. no.16:69-82 '62. (MIRA 16:4) (Hydrocarbons—Acquistic properties) (Ultrasonic waves)



TARANTOVA, G.D.; NOZDREV, V.F.

Lew of corresponding states as applied to binary liquid mixtures.

Prim.ul'traakust.k issl.veshch. no.16:147-154 '62.

(MIRA 16:4)

(Sound—Speed) (Liquids—Acoustic properties)

```
NOZDREV, V.F.; BELINSKIY, E.A.; KHABIBULLAYEV, P.K.

Ultrasonic wave absorption in a water - formic acid mixture,
Izv. AN Uz. SSR. Ser.fiz.-mat.nauk 7 no. 6:99-101 (6).

(MIRA 17:6)

1, Takukentskiy gosusiarsivennyy institut.
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ACCESSION NR: AR4022455

S/0058/64/000/001/H056/H056

SOURCE: RZh. Fizika, Abs. 1H355

THE PERSON HERE AND ADDRESS OF THE PERSON HAVE BEEN AND ADDRESS OF THE PERSON HAVE BEEN ADDRES

AUTHORS: Belinskiy, B. A.; Karevskiy, V. A.; Nozdrev, V. F.; Savinikhina, A. V.

TITLE: Possibilities of measuring the absorption coefficient and ultrasound wave propagation velocity in a liquid by the method of irregularly shaped delay line

CITED SOURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva. M., vy\*p. 17, 1963, 107-112

TOPIC TAGS: liquid absorption coefficient, ultrasound propagation velocity, ultrasonic delay line, irregular ultrasonic delay line, beam splitting method, single probe measurement, double probe measurement

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TRANSLATION: It is proposed to measure the coefficient of absorption of a liquid and the ultrasound wave propagation velocity as functions of p, V, T, with the aid of irregularly shaped acoustic delay lines. The acoustic system consists of two cylindrical delays with precision-polished ends to ensure reliable acoustic contact. One of the delays has a step-like cut with a cross section area equal to half the area of the cylinder. The delay with the cut splits the ultrasound beam into two equal halves. The measurements are based on the fact that each half of the ultrasound beam in the liquid covers a different path length. This leads to a time separation of the radio pulses at the output of the acoustic system and to a difference in their magnitude, owing to the inequality of the absorption coefficients of the liquid and of the delay-line material. The measurements are made with either a single or a double probe. In the former case the quartz slabs must be strictly coaxial. The delays are made of fused quartz, aluminum, or some other material with known absorption coefficient. Simple calculations show that

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by knowing the ratio of the radio pulses at the output of the acoustic system, the depth of the cut, and the coefficient of absorption of the delay line, it is possible to determine the absorption coefficient of the investigated liquid when using two probes; when a single probe is used, it is necessary to have the same data, except for the absorption coefficient of the delay. However, with a single probe scheme it is necessary to calculate more accurately the geometrical parameters of the autoclave. The ultrasound propagation velocity in the liquid can be roughly determined by the method of irregularly-shaped delay lines from the known delay time of a pulse passing through the longer path in the liquid. Formulas are derived for the absorption coefficient and for the ultrasound propagation velocity in the liquid. V. Bashkirov.

DATE ACQ: 03Mar64

SUB CODE: PH

ENCL: 00

Card 3/3

s/0058/63/000/012/E007/E007

ACCESSION NR: AR4014762

SOURCE: RZh. Fizika, Abs. 12E64

AUTHOR: Tarantova, G. D.; Nozdrev, V. F.

TITLE: Concerning the linear "diameter" of the velocity of ultrasound and the wave resistance in the critical region of a mixture of benzene and methyl alcohol

CITED SOURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva.

Vy\*p. 17. M., 1963, 271-276

TOPIC TAGS: benzene, methyl alcohol, benzene methyl alcohol mixture, ultrasonics, velocity of ultrasound, linear diameter, wave resistance

TRANSLATION: It is established on the basis of an analysis of the previously published experimental data on the velocity of ultra-

1/2 Card

ACCESSION NR: AR4014762

sound in a benzene methyl alcohol mixture that the law of linear diameter for the ultrasound velocity is satisfied in an interval ~20° about the critical point, while the law of linear diameter for the wave resistance is satisfied in an interval ~15°. ENCL: 00

DATE ACQ: 24Jan64

SUB CODE: PH

4

Card 2/2

Pf-4/P1-4 BVT(1)/T/EWP(k) L 63318-65 UR/0081/65/000/011/B068/B068 AR5018404 ACCESSION NR: SOURCE: Ref. zh. Khimiya, Abs. 118444 AUTHOR: Kovaleva, V. M.; Nozdrev, V. F. TITLE: The absorption of ultrasonic waves, in acetates CITED SOURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva. Vyp. 18. M., 1963, 103-108 TOPIC TAGS: ultrasonic wave, ester, acetic acid, absorption, absorption coefficient TRANSLATION: The results of measurements of the absorption coefficient of ultrasound in acetates were compiled with calculations according to the Stocks formula. It was established that the shift viscosity determines only a small (2-20%) part of the absorption of ultrasound, which indicates the vital role of the relaxation processes connected with volumetric viscosity. The frequency of relaxation of the esters which were investigated lies above 10 megacycles; low frequency relaxation which had been found previously by a series of authors was not detected. R. F. ENCL: 00 SUB CODE: IC, G-P

s/0046/63/009/003/0379/0381

ACCESSION NR: AP3005630

AUTHORS: Grechkin, V. I.; Nozdrev, V. F.

TITLE: Ultrasound velocity in the critical region of the ternary system benzenemethanol-toluene

SOURCE: Akusticheskiy zhurnal, v. 9, no. 3, 1963, 379-381

TOPIC TAGS: ternary system, benzene-methanol-toluene system, benzene, methanol, toluene, ultrasound, acoustics, ultrasound velocity, ternary systems acoustics, critical region

ABSTRACT: The velocity of ultrasound propagation in ternary liquids was studied in order to provide data missing in the literature. The liquids used in this investigation consisted of the previously studied binary benzene-methanol mixtures (V. F. Nozdrev, G. D. Tarantova. Skorost' zvuka v sisteme benzol-metilovy\*y spirt v kriticheskoy oblasti. Akust. zh., 1961, 7, 4, 496-497) diluted with various amounts of toluene. The velocity of the ultrasonic wave propagation was determined optically. Abstracter's note: hereafter the determinations are referred to by the authors as "acoustic." In the critical range the behavior of the mixtures was

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ACCESSION NR: AP3005630

table.

found to be analogous to the behavior of their separate components. Throughout the entire range of temperatures tested the ultrasound propagation velocities in the liquid phase exceeded the velocities in the saturated vapors. In both media the velocities decreased sharply near the critical point and increased rapidly beyond this point. The minimal velocities at the critical points were measured with a fair degree of accuracy. Using the data on the densities of the ternary mixture and on the ultrasound propagation velocities, the authors have calculated the coefficients of adiabatic compressibility for some of these mixtures. Figure 1 of the Enclosure shows the relation of these coefficients ( $\beta_s$ ) to the temperatures and the compositions. The coefficients  $\beta_s$  for the ternary mixtures were found to exceed those for the separate components and for the binary mixtures. The acoustical method of investigation provided other data useful in practical and theoretical studies dealing with the physicochemical properties of complex mixtures. As an example, the authors present a table showing critical temperatures and pressures for all the mixtures investigated in this work. Orig. art. has: 2 graphs and 1

ASSOCIATION: Moskovskiy oblastnoy pedagogicheskiy institut im. N. K. Krupskoy (Moscow District Teachers Institute)
Card 2/4

· :

MOZDREV, V.F.; BELINSKIY, B.A.; KHABIBULLAYEV, P.K.

Absorption and rate of propagation of high frequency ultrasonic waves in binary mixtures. Zhur. fiz. khim. 37 no.12:2798...
(MIRA 17:1)

1. Moskovskiy oblastnoy pedagogicheskiy institut imeni Krupskoy.

BELINSKIY, B.A.; NOZDREV, V.P.; KHABIBULIAYEV, P.K.

Absorption coefficient and rate of propagation of ultrasonic waves in binary mixtures of formic acid - ethyl formate.

Akust. zhur. 10 no.1:112-114 '64. (MIRA 17:5)

1. Moskovskiy oblastnoy pedagogicheskiy institut imeni Krupakoy.

MAKHAN'KO, I.G.; NOZDREV, V.F.

Ultrasound absorption in the binary mixture benzene - methyl alcohol along the saturation line including the critical region.

Akust. zhur. 10 no.2:249-251 464. (MIRA 17:6)

l. Moskovskiy oblastnoy pedagogicheskiy institut imeni N.K. Krupskoy.

BELINSKIY, B.A., NOZDHEY, V.F., KHABIDULLAYEV, P.K.

Absorption coefficient and the velocity of ditresonic waves in Muyoured water - formit colls. Akust. zhur. 9 no.alaRu .Ph. 161.

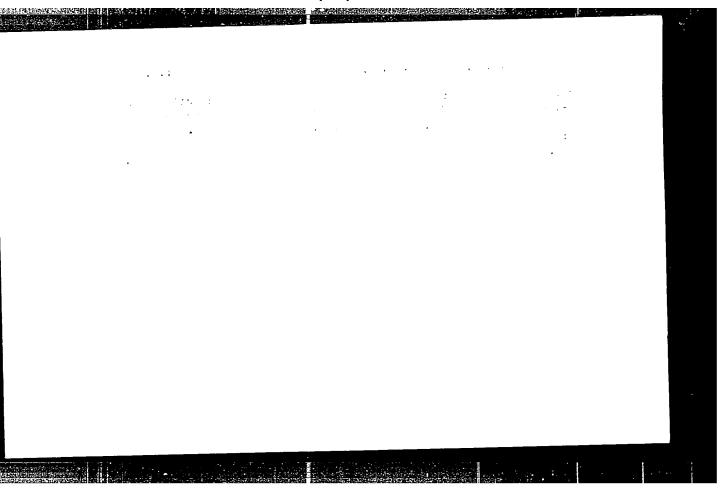
(MJRA 17:3)

1. Moskovskyy oblastnyy jedagogirneskiy .natitur men. Kropskoy.

NOZDREV, Vasiliy Fedorovich, zasl. deyatel' nauki, doktor fiziko-matem. nauk; FAYNBOYM, I.B., red.

[Molecular acoustics] Molekuliarmaia akustika. Moskva, Znanie, 1964. 31 p. (Novoe v zhizni, nauke, tekhnike. IX Seriia: Fizika, matematika, astronomiia, no.24) (MIRA 17:11)

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620007-3



NOZDREV, V.F.; GRECHKIN, V.1.

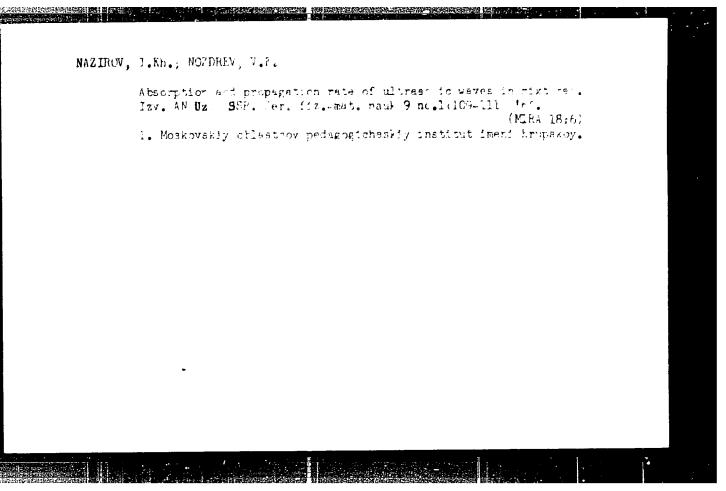
Determination of the critical curves of ternary mixtures by the ultra acoustic method. Zhur.fiz.khim. 38 no.11:2663-2664 N 164.

(MIRA 18:2)

1. Moskovskiy oblastnoy pedagogicheskiy institut.

NOZDREV, Vasiliy Fedorovich; SENKEVICH, Arkadiy Aleksandrovich; PERKOVSKAYA, G.Ye., red.

[Statistical physics course] Kurs statisticheskoi fiziki. Moskva, Vysshaia shkola, 1965. 287 p. (MIRA 18:7)



EVT(1)/EVT(m)/EVP(1)/T/EWP(k) L 32985-66 SOURCE CODE: UR/0058/65/000/011/H061/H061 ACC NR: AR6016267 AUTHOR: Kadyrov, T.; Nozdrev, V. F. TITIE: Concentration dependence of the absorption coefficient of ultrasound and calculation of the energy characteristics or processes in an ethyl formate1- formic acid binary mixture SOURCE: Ref. zh. Fizika, Abs. 11Zh424 REF SOURCE: Uch. zap. Mosk. obl. ped. in-ta, v. 147, 1964, 123-128 TOPIC TAGS: ultrasound absorption, absorption coefficient, light diffraction, solution concentration, formic acid, activation energy, relaxation process ABSTRACT: An optical-diffraction method using a photomultiplier was used to investigate the concentration dependence of the absorption of an ultrasound wave in an ethyl formate - formic acid binary mixture. The concentration dependence of  $\alpha/\nu^2$  ( $\alpha$  - absorption coefficient,  $\nu$  - frequency) for all the investigated frequencies and temperatures are similar, so that only the concentration dependence  $\alpha/\nu^2$  for 10 Mc and 20C is given. The experimental data compared with the empirical formula. The activation energy is calculated from the value of the relaxation frequency. I. Chaban, [Translation of abstract]

SUB CODE: 20,07

Card 1/1 /2/

Sinty, L.I.; Edlinskiy, b.A.; MCTDRLV, V.F.

Methods for determining the phase composition of par-11puin systems in a porous medium. Zav.lab. 31 no.41467-468 (65. (MRA 1912))

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.

Krupskoy.

ACC NR: AR6023306	SOURCE CODE: UR/00	58/66/000/003/нот1/нот2
AUTHOR: Normatov, A.; Nozdrev, V	7. F.; Belinskiy, B. A.	68 B :
TITLE: Investigation of the coeffultrasonic waves in the quaternar hol \( \) water	fficient of <u>absorption and pro</u> ry system acetic acid ethyl	pagation velocity of Lacetate - ethyl alco-
SOURCE: Ref zh. Fizika, Abs. 3Zh	n499	
REF. SOURCE: Tr. 1-y Mezhvuz. na issled. veshchestva i v nar. kh-v	auchn. konferentsii po primene ve. Tashkent, 1964, 161-164	eniyu molekul. akust. k
TOPIC TAGS: ultrasoric velocity, coefficient, temperature dependention process	, ultrasound absorption, aqueonce, acetic acid, frequency ch	ous solution, absorption haracteristic, relaxa-
ABSTRACT: An investigation was moity of ultrasound in a system coethyl alcohol (20%), and 1 80% to chemical purification. The acwas from 5 to 2% at frequencies 5	onsisting of acetic acid (79.2) water added. The component ocuracy of measurement of the	2%), ethyl acetate (0,8%), liquids were subjected absorption coefficient
Card 1/2		

ACC NR: AR6023306

of the temperature C.1C. Relaxation absorption was observed in the mixtures regardless of the nature of the relaxation processes in the components. The absorption in mixtures with 23% water increases with temperature. At frequency ~ 20 Mcs, the absorption os ultrasound in the mixtures does not depend on the water concentration (at 10 -- 50% water). A minimum of the temperature dependence of the coefficient of absorption is observed at 80% water concentration. At large water concentrations, the free quency dependence of the coefficient of absorption and the velocity of ultrasound in the mixture are determined by the behavior of the acetic acid -- water mixture. The relaxation parameters and the velocity of ultrasound are given for different water v concentrations at 20C. The frequency of the relaxation does not depend on the concentration of the water within the limits of experimental error. L. Dikarev. [Translation of abstract]

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SUB CODE: 20

2/2

ACC NR: AR6013652

SOURCE CODE: UR/0058/65/000/010/E007/E007

AUTHOR: Nozdrev, V. F.; Makhan'ko, I. G.; Malyavin, I. G.

TITLE: Study of the temperature dependence of the shear and second viscosities of binary mixtures of benzene and methyl alcohol over a wide temperature range including

the critical region

SOURCE: Ref. zh. Fizika, Abs. 10E42

REF SOURCE: Uch. zap. Mosk. obl. ped. in-ta, v. 147, 1964, 23-26

TOPIC TAGS: fluid viscosity, fluid property, fluid friction, ultrasonic absorption,

temperature dependence, benzene, methyl alcohol

TRANSLATION: An experimental study was made of the shear and second viscosities of a binary mixture at various temperatures. The shear viscosity coefficient was measured directly while the second viscosity coefficient was calculated from the ultrasonic absorption coefficient in a liquid in terms of the shear viscosity coefficient. A characteristic of the second viscosity was observed in the critical temperature region. It is hypothesized that this is due to the decay of associated complexes close to the critical point.

SUB CODE: 20

Card 1/1

New developments come to life. Sov. profsoiuzy 16 no.24:22-24 D '60. (MIRA 14:1)
1. Predsedatel' komiteta profsoyuza Ulan-Udenskoy fabriki imeni 25-letiya Buryatskoy ASSR. (Ulan-Ude-Wool industry) (Socialist competition) (Trade unions)

POTAPOV, V.P., redaktor; KAKSHIN, M.D.; L'VITSYN, N.F.; MASTERITSYN, N.N.;

NGZDRIN. A.A.; NIKITYUK, A.P.; PADNYA, V.A.; RIDEL', E.I.; FERAPONTOV, G.V.; SHAMAYEV, M.F.; SHATSKAYA, E.P.; GULEV, Ya.F., redaktor;

VERINA, G.P., tekhnicheskiy redaktor.

[Advanced methods for workers in material handling] Peredovye metody
truda kommercheskikh rabotnikov. Moskva, Gos. transp. zhel-dor. izd-vo,
1953. 262 p. [Microfilm]

(MALEA 7:11)

(MAterial handling)

MOZORIN, A.A.: FRASOLOV, M.A.; SZEMEYEV, S.A., ROGUSTAYA,
Ye.F.: SHAVEN, G.B., inshener, redaktor; EHITROV, P.A., tekhnicheskiy redaktor.

[Experience in closer loading of railroad cars; accounts by young weighers] Opyt uplotnennoi sagruski vagonov; rasskasy molodykh vesovshchikov. Moskva, Gos. transportnoe shel.-dor. izd-vo, 1954.
45 p. (Railroads--Freight)

POTAPOV, V. P.; BARKAN, I. H.; DEM'YANKOV, N. V.; KANSHIN, M. D.; L'VITSYN, N. F.;

MASTERITSYI, N. H.; HOZDRIN, A. A.; PADNYA, V. A.; RIDEL', E. I.; FERAPONTOY, G. V.; SHAMAYEY M. F.; STATSKATA, Z. P.; SHAVKIN, G. B., inzhener,
redaktor; KHITROV, P. A., tekhnicheskiy redaktor

[Advanced methods in shipment and commercial handling of goods]
Peredovye metody truda gruzovykh i kommercheskikh rebotnikov, Izd.
2-oe. Moskva, Gos. transp. zhel-dor. izd-vo. 1955. 286 p.
(MLRA 9:2)

(Meterial handling) (Transportation--Equipment and supplies)

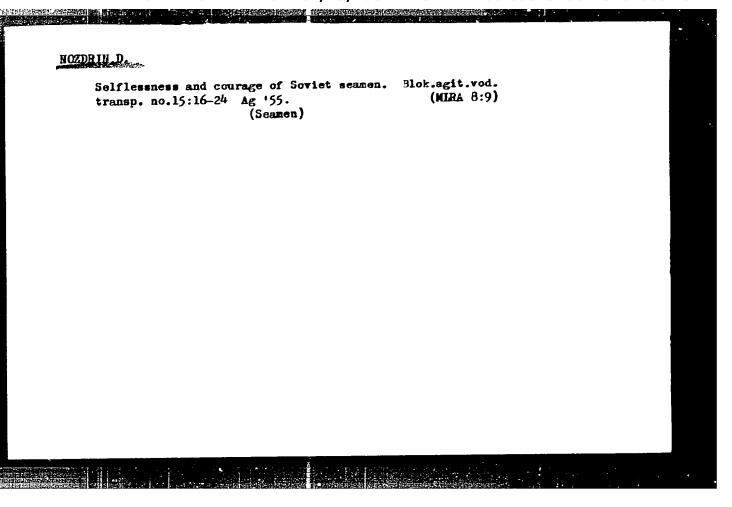
KAPLUN, Fayvel' Shmuylovich; GALLE, Aron Grigor'yevich; MAKAROV,
Anatoliy Matveyevich; NOZDRIN, Aleksandr Andreyevich;
PIATOV, V.G., inzh., retsenzent; PAVLOV, V.V., inzh.,
retsenzent; TKACHENKO, A.A., inzh., red.; KHITROV, P.A.,
tekhn. red.

[Manual on containers and the packing of freight] Spravochnik po tare i upakowke gruzov. Moskva, Transzheldorizdat,
1961. 393 p. (MIRA 15:7)

(Packing for shipment)

GROSHIKOV, Aleksandr Ivanovich; GORBUNOV, M.N., doktor tekhn.
nauk, retsenzent; NOZDRII, A.M., inzh., retsenzent;
KOLOSOV, M.A., inzh., red.

[Fundamentals of the mechanization and automation of technological processes in the manufacture of airplanes] Osnovy mekhanizatsii i avtomatizatsii tekhnologicheskikh protsessov v samoletostroenii. Moskva, Mashinostroenie, 1965. 347 p. (MIRA 18:6)



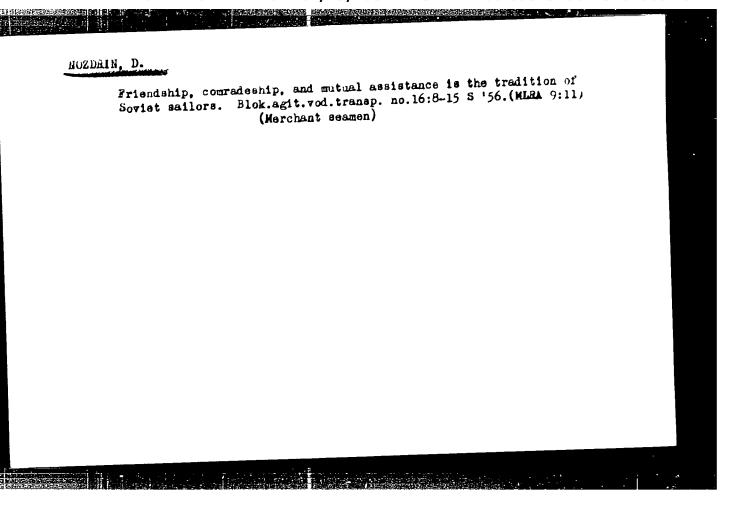
MUZNETSOV, A.; HOZDRIN, D.

Educational duties of the commanding officers of a vessel.

Mor.flot 15 no.5:27-28 My'55.

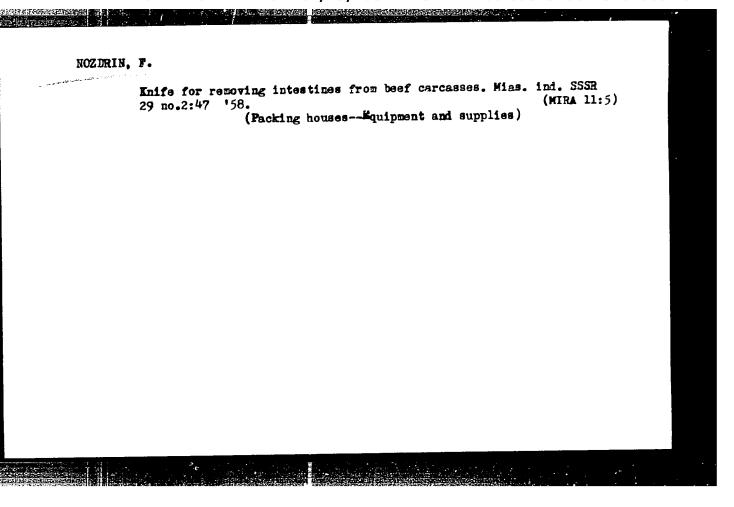
(Nerchant marine--Officers)

(Nerchant marine--Officers)



On a progressive ship manne Youth League. Mor. flot 21	d by young people of the Communist no.9:5-7 S '61. (MIW. 14:9)	
1. Starshiy inspektor Upra	wleniya kadrov Ministerstva morakogo	
flota. (ShipsManning)		

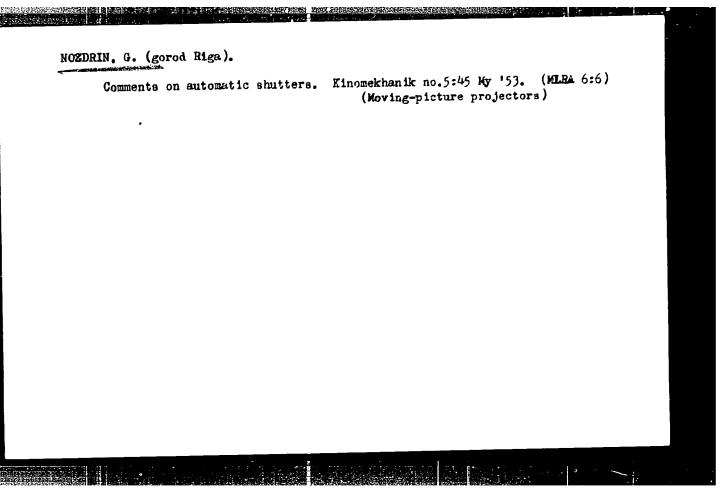
# NOZDRIN, D. Brothers Fomin are captains. Mor.flot 22 no.12:46 D '62. (MIRA 15:12) 1. Starshiy inspektor Upravleniya kadrov Ministerstva morskogo flota. (Merchant Marine—Officers)



•	370	ZDR	TRE	~
	111	17. IJR	FN.	

- 2. USSR (600)
- 4. Meving-Picture Projection
- 7. Improving the construction of the housing for the knife switch in an arc lamp.
  Kinomekhanik. No.9, 1952

9. Monthly List of Russian Accessions, Library of Congress, \_\_\_\_\_\_1953. Unclassified.



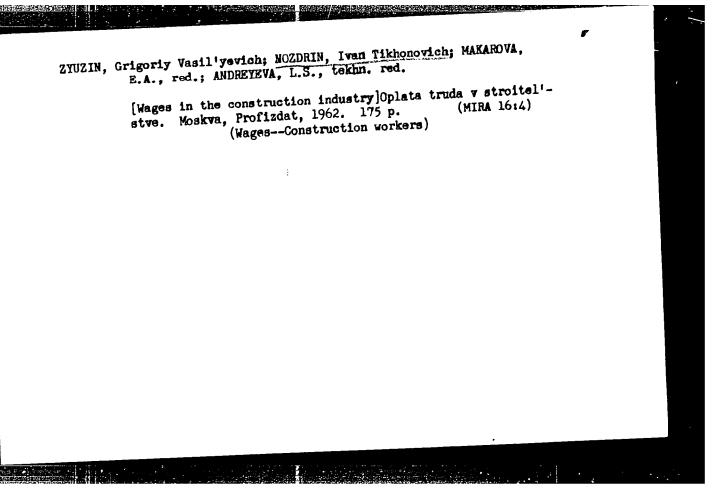
to contain the first section of the section of the

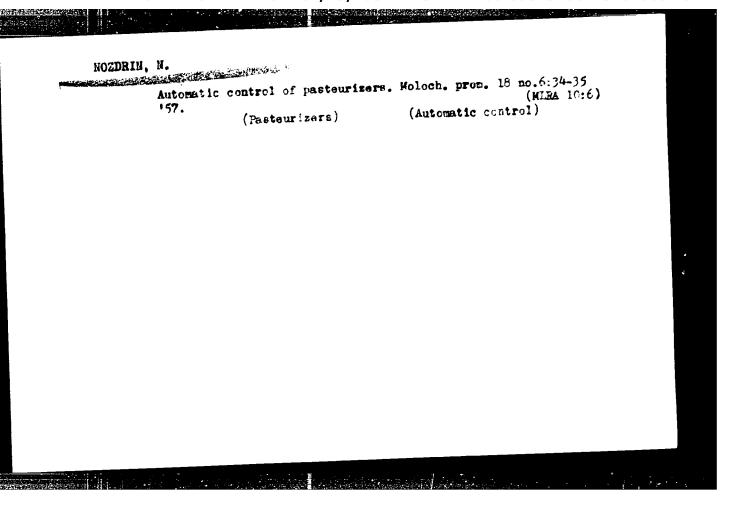
KANUKOV, I.M., inzhener; MOZDRIN, I.L., inzhener.

Prestressed cencrete latticed peles for centact systems. Transp. strei.
6 no.7:11-13 J1 '56.
(Electric lines--Peles) (Prestressed cencrete)

ZACORUL'KIN, Vasiliy Afanas'yevich; MIZINA, Nataliya Yevstigneyevna;
NOZURIN, Ivan Tikhonovich; NOVOSPASSKIY, V.V., red.; RAKOV,
S.I., tekim.red.

[Wages in construction industry] Kak oplachivaetsia trud
rabochikh v stroitel'stve. Moskva, Izd-vo VTsSPS Profizdat.
1958. 142 p.
(Wages) (Construction industry)



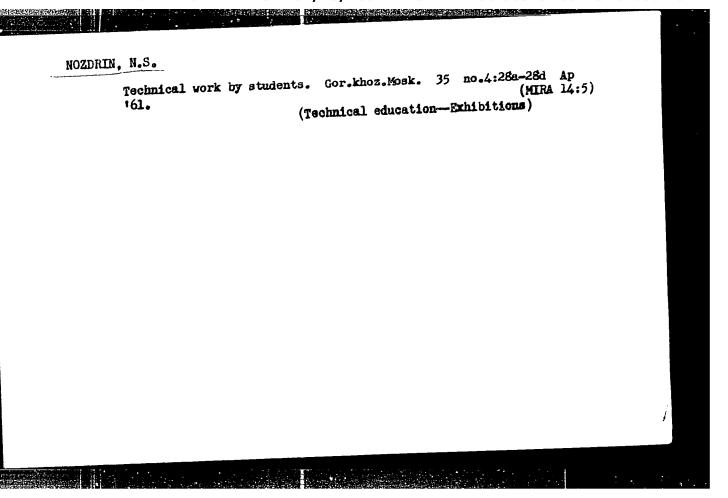


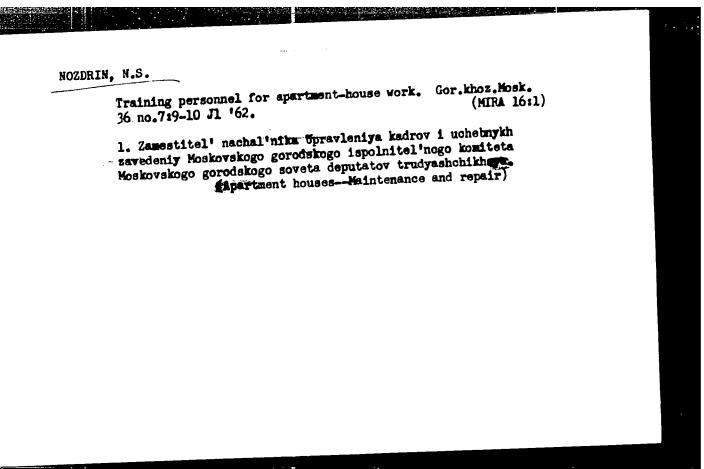
Problems in training specialized workers for municipal services.

Gor.khoz.Mosk. 34 no.6:31-33 Je '60. (MIRA 13:7)

1. Zamestitel' nachal'nika Upravleniya kadrov i uchebnykh zavedeniy Mosgorispolkoma.

(Moscow---Municipal services---Study and teaching)





NOZDRIN, N.T., inzh. (Bryansk)

Winged assistants. Zashch. rast. ot vred. i bol. 6 no.7:7-8

(MIRA 16:5)

J1 '61.

(Bryansk Province—Aeronautics in agriculture)

(Bryansk Province—Plants, Protection of)

SOV/11-59-4-10/16 3 (5) Nozdrin, P. I. AUTHOR: New Data on the Discovery of Mesozoic Bauxites on the TITLE: Eastern Slope of the Southern Ural (Novyye dannyye o nakhozhdenii mezozoyskikh boksitov na vostochnom sklone Yuzhnogo Urala) Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, PERIODICAL: Nr 4, pp 106 - 107 (USSR) Deposits of bauxites were found in two points of the eastern ABSTRACT: slope of the Southern Ural. Prospecting bore holes showed that they occured in sink holes or depressions and overlying limestone rocks of the lower Carboniferous period. The friable rocks which fill the hole or the depression belong partly to the Cretaceous and partly to the Tertiary and Quaternary periods. As analogous geological conditions exist in the region between the towns of Magnitogorsk and Orsk, the author suggests a careful prospecting of the region for other bauxites. Card 1/2

### CIA-RDP86-00513R001237620007-3 "APPROVED FOR RELEASE: 07/13/2001

SOV/11-59-4-10/16

New Data on the Discovery of Mesozoic Bauxites on the Eastern Clope of the Southern Ural.

There is I profile and I table.

ASSOCIATION: Yuzhno-Ural skoys geologicheskoye upravleniye Ministerstva geologii i okhrany nedr SSSR, Ufa (The South-Ural Geological Administration of the Ministry of Geology and Conservation of

Mineral Resources of USSR)

SUBMITTED:

June 13, 1957

CARD 2/2

NOZDRIN, P.I.; MUSINA, G.V.

Permian sediments of the eastern slope of the Southern Urals.
Dokl. AN SSSR 150 no.6:1330-1333 Je '63. (MIRA 16:3)

1. Bashkirskoye territorial'noye geologicheskoye upravleniye.
Predstavleno akafemikom D.V.Nalivkinym.
(Ural Mountains—Geology, Stratigraphic)

LEPILKIN, A., prof.; MOZDRIN, S., inzh.

Investigating the heat-insulation properties of the FKhV-1 foam product in frozen meat storage. Mias.ind.SSSR 30 no.6:47-49 (MIRA 13:4)

'59.

(Cold storage--Insulation) (Resins, Synthetic)

IEPILKIN, A., prof.; MOZDRIN, S.

Thermal insulation of machinery of the meat industry. Mias. ind. SSSR 32 no.3:54-57 '61. (MIRA 14:7)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti. (Meat industry—Equipment and supplies)

(Insulations (Heat))

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LEPILKIN, A., prof.; MOZDRIM, S., inzh.; TZOTULOV, R., inzh.

Utilization of foan r. s.ics for lowering temperature loss a in mast combines. 12.s. ind. SSSR 32 no.5:40-51 '61.

(MIA 14:10)

1. Moskovski v bekhnologicheskiy institut myasnoy i molochnoy promyshlorna i (far Lapilkin, Nozdrin).

2. Moskovski v bekhnologicheskiy institut myasnoy i molochnoy promyshlorna it (far Lapilkin, Nozdrin).

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2. Moskovski v bekhnologicheskiy institut myasnoy i molochnoy promyshlorna it (far Lapilkin, Nozdrin).

2. Moskovski v bekhnologicheskiy institut myasnoy i molochnoy promyshlorna it (far Lapilkin, Nozdrin).

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2. Moskovski v bekhnologicheskiy institut myasnoy i molochnoy promyshlorna it (far Lapilkin, Nozdrin).

2. Moskovski v bekhnologicheskiy institut myasnoy i molochnoy promyshlorna it (far Lapilkin, Nozdrin).
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LEPILKIN, A.N.; NOZDRIN, S.I.

Investigation of thermal and physical properties of foam plastics by the nonstationary method. Izv. vys. ucheb. zav.; pishch. tekh. no.5: 122-130 '61. (MIRA 15:1)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti. Kafedra teplotekhniki.

(Plastics)

S/081/61/000/005/012/024 B110/3205

AUTHORS:

Nozdrina, E. V., Sergiyenko, S. R.

TITLE:

Application of methods of selective catalytic hydrogenation and dehydrogenation for the purpose of clarifying the structure of high-molecular aromatic hydrocarbons of petroleum

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 5, 1961, 532, abstract 5M146 (5M146) ("Tr. In-ta nefti AN SSSR", 1959, 13, 127-144)

TEXT: Attempts to hydrogenate the fraction  $(d_4^{20} = 1.0146; n_D^{20} = 1.5813;$  mclecular weight = 435; C = 85.50 %; H = 10.03 %; S = 4.43 %) of condensed, bicyclic, aromatic hydrocarbons which had been separated chromatographically on silica gel from the resin-free residue of Romashki petroleum, cally on silica gel from the resin-free residue of Romashki petroleum, have been made in a rotary autoclave, in the presence of the commercial have been made in a rotary autoclave, and at 180 atm for 40 hr. The catalyst WS<sub>2</sub>-NiS-Al<sub>2</sub>0<sub>3</sub>, at 250 and 300°C, and at 180 atm for 40 hr.

hydrogenated substances were subjected to a chromatographic analysis. Single hydrogenation at 250°C (100 % catalyst per raw material) resulted in 85 % desulfurization and double hydrogenation (200 % catalyst in two

Card 1/2

Application of methods of selective...

B110/B205

hydrogenation processes) in 95 % desulfurization. The hydrocarbon molecule was not very strongly affected. Single hydrogenation at 300°C (60 % catalyst) results in 94.5 % desulfurization, and the second hydrogenation removes practically all the sulfur. Under the conditions of hydrogenation at 300°C, which lead to complete desulfurization, the condensed, bicyclic, aromatic systems practically vanish. [Abstracter's note: Complete translation.]

Card 2/2

20-118-4-27/61 Sadykh-Zade, S. I., Nozdrina, L. V., AUTHORS: Petrov, A. D., Corresponding Member of the AS USSR Production of Silicon Olefine Oxides From Chlorhydrines TITLE: (Sintez okisey kremneolefinov iz khlorgidrinov) Doklady AN SSSR, 1958, Vol. 118, Nr 4, pp. 723-726 (USSR) PERIODICAL: A silicon olefine oxide was produced only lately (reference 1) ABSTRACT: as first oxide of this kind  $(\phi, \delta$ -secondary-primary oxide) by interaction between the reagent of Grin'yar (Grignard) and epichlorhydrin. The reaction passed according to a very complicated scheme, the yields of the organic silicon chlorhydrin as well as of its oxide did not surpass 25-30%. In the present investigation it was found that the interaction between the reagents of Grin'yar from silicon-halides  $\rightarrow$ Si-(CH<sub>2</sub>)<sub>n</sub>MgX] and monochloroacetone takes a clear course. This made possible a production of the  $\beta$ -  $\delta$ - and  $\delta$ -  $\epsilon$ -oxides already with a high yield (80-90%). It is remarkable that the  $\beta$  -f-haloidhydrins, in contrast to the  $\gamma$  - $\delta$  -haloidhydrins, yield no oxide, under the NaOH action but quantitatively unsaturated halides. The authors succeeded in leading the reaction into the Card 1/2

Production of Silicon Olefine Oxides From Clorhydrines

20-118-4-27/61

direction of the oxides. NaOH could be substituted by Ca(OH)<sub>2</sub>, or the alkyl radical R by R<sub>3</sub>SiO; thus two divergent reactions were conducted. In the attempt to produce a-\beta-bromohydrin by affiliation of hypobromous acid to triethylvinylsilane the reaction took an anomalous course, and instead of bromohydrin dibromide was formed (analogously to ref. 2). The attempt to produce an oxide from R<sub>2</sub>Si-CHCl-CH<sub>3</sub> failed, too. The bond S1-C

was hydrolyzed here under the influence of NaOH. R<sub>2</sub>Si(OH)<sub>2</sub> was formed here, the initial compound did not suffer any changes under the action of Ca(OH)<sub>2</sub> and regained its original state.  $\delta$ - $\xi$ -oxide also absorbed the hydride silane and formed monoethers (no alcohol). This was determined from the negative value of the hydroxyl content. In the experimental part the usual data are given on: 3-trimethyl-silyl-1-chloro-2-methyl-propanol-2 (I), oxide of the 5-dimethyl-ethyl-silyl-2-methyl-pentene-1-2, and 1-chloro-2-methyl-triethyl-silyl-methyl-propene-1-2 together with some further analogous compounds. There are 2 tables and 2 references, 1 of which is Soviet.

SUBMITTED: AVAILABLE: Card 2/2

Library of Congress

ARTEM'YEV, Ye.A.; VOLCHENKO, V.V.; NOZDRINA, M.S.; BRUNNER, Yu.N., dotsent; MILLERUK, G.Ya.

Readers' letters. Zashch. rast. ot vred. i bol. 8 no.2:14-15 F '63. (MIRA 16:7)

- 1. Agronom po zashchite rasteniy Krasnosel'skogo rayona Kostromskoy oblasti (for Artem'yev). 2. Obshchestvennyy korrespondent zhurnala "Zashchita rasteniy ot vrediteley i bolezney" (for Volchenko).
- 3. Agronom po zashchite rasteniy Khar'kovskogo rayona (for Nozdrina).
- 4. Poltavskiy sel'skokhozyaystvennyy institut (for Brunner).
- 5. Zamestitel' predsedatelya Soveta rayonnogo otdeleniya Obshchestva okhrany prirody, Cherkasskaya obl. (for Milleruk).

  (Plants, Protection of)

NOZDRINA, T.M.; ISMAILOV, M.G.; TIMCHENKO, V.I., aspirant; ABHASOV, Ya.M., aspirant; KOROSTELEVA, Z.G., entomolog; AGARKOV, V.A., kand.sel'skokhoz.nauk

Brief reports. Zashch. rast. ot vred. i bol. 7 no.2:53-54 F '62. (MIRA 15:12)

l. Agronom po zashchite rasteniy Kharikovskogo rayona (fcr Nozdrina). 2. Azerbaydzhanskiy institut zashchity rasteniy, Kirovabad (for Ismailov). 3. Ukrainskiy institut ovoshchevodstva i kartofelya, Kharikov (for Timchenko). 4. Azerbaydzhanskiy institut khlopkovodstva, Kirovabad, (for Abbasov). 5. Tambovskiy entomofitouchastok, Sovkhoz "Komsomolets" (for Korosteleva). 6. Kamenets-Podoliskiy seliskokhozyaystvennyy institut, Khmelinitskaya obl. (for Agarkov).

(Plants, Protection of)

BURMAKIN, A.G.; LAZUNGVA, A.D.; MEZHIY V., Palle; M. W. WILLE, A.L., prof., reteenzent; like higher, d.A., reteenzent; NOZDRIMA, V.A., red.

[sechnology of frozer products] Tekhnologija zanorozuennykh produktov. Moskva, Fishenevala procychl., 1942.

164, g. (Mila 12:3)

SHISHKINA, Nina Nikolayevna; NAZAROV, Arkadiy Stepanovich;
ARISIOV. D.V., retsenzent; GUL', V.Ye., retsenzent;
DYAKONOVA, P.J., spets. red.; NOZDRINA, V.A., red.

[Use of polymeric films for the packaging of meat products] Primenenie polimernykh plenok dlia upakovki miasoproduktov. Moskva, Pishchevala promyshlennost', 1965.

131 p. (MIRA 18.7)

BUTNIKOV, Nikolay Danilovich; PRITYKO, V.P., retsenzent; SHEVCHENKO, N.S., retsenzent; NOZDRINA, V.A., red.

[Safety engineering in the dairy industry] Tekhnika bezopasnosti v molochnoi promyshlennosti. Moskva, Pishchevaia promyshlennost', 1965. 200 p. (MIRA 18:12)

s/081/62/000/010/012/085 B138/B101

15 211

TITLE:

Nozdrina, V. G. AUTHOR:

The effect of Al and Ge impurities in synthetic quartz on the

a= 5 transformation temperature

PERIODICAL: Referativnyy zhurnal. Knimiya, no. 10, 1962, 51, abstract 10B432 (Tr. Yses. n.-i. in-ta p'yezooptich. mineral'n. syr'ya, v. 3,

no. 2, 1960, 105 - 111)

TEXT: Using the method of differential thermal analysis the  $\alpha \rightleftharpoons \beta$  trans-  $\wp$ formation temperatures have been measured in specimens of monocrystalline synthetic quartz containing Al and Ge impurities. At an Al concentration of 0.026 % there is a reduction of 4 - 4.50C in the  $\alpha \rightleftharpoons 6$  transformation temperature below that for natural quartz which was used as the standard. Ge increases the polymorphous transformation point of quartz, the increase in the temperature being proportional to the Ge concentration in the quartz. [Abstracter's note: Complete translation.]

Card 1/1

L 36395-66 EWT(1)/EWT(m)/T/EWP(t)/ETI IJP(c) GG/JD/TH

ACC NR: AP6018781

A ) SOURCE CODE: UR/0070/66/011/003/0475/0476

AUTHOR: Nozdrina, V. G.; Tsinober, L. I.

ORG: none

TITLE: Spontaneous crystallization of corundum under hydrothermal conditions

SOURCE: Kirstallografiya, v. 11, no. 3, 1966, 475-476

TOPIC TAGS: corundum, metal crystallization, crystal growth rate, crystal formation, radiation effect, thermoluminescence, gamma radiation

ABSTRACT: Spontaneous crystallization of corundum crystals was studied under various physical and chemical conditions. The form of the crystals was a function of solution composition (10 to 20%  $Na_2CO_3$  or 10%  $NaHCO_3$ ), autoclave temperature and pressure, and supercooling. Both platelets and isometrical crystals were formed from the  $Na_2CO_3$  solutions while prismatic shaped crystals were grown from  $NaHCO_3$  solutions. This was the result of the relative growth rates of habit planes in the respective solutions: in  $Na_2CO_3$  solutions  $V(0001)/V(1120) \le 1$ , while in  $NaHCO_3$  solutions  $V(0001)/V(1120) \ge 1$ . These data were obtained under varying autoclave conditions of pressure, temperature and supercooling. The action of  $Co^{60}$  gamma radiation on these crystals was also studied. Under exposure to the radiation the isometric and prismatic crystals turned green ish-brown while the platelets acquired a greenish-yellow color. The optical spectra of

UDC: 548.51

Card 1/2

L 36395-66

ACC NR: AP6018781

the irradiated samples were measured before and after annealing at 400°C. Annealing lowered the absorption closer to its preirradiated state. Maxima were observed in the thermoluminescence curves (intensity as a function of temperature) for the differently colored samples at temperatures of 110, 150, 290 and 530°C. The ratio of intensities at 110 and 150°C were different: the greenish-brown specimens had lower maxima at 110°C and higher maxima at 150°C. The greenish-brown samples turned greenish-yellow when heated to 200°C; above 350°C, the color weakened and at 660°C the color faded in all samples. This explained the similar maxima observed for both types of samples at 530°C. Orig. art. has: 3 figures, 1 table.

SUB CODE: 07,20/ SUBM DATE: 14Jun65/ ORIG REF: 001

Card 2/2/11/P

1 4 4 7 1
Darwov, N. A.; Birmen, R. S.; Bugrov, M. S.; Nozdrin, V. R.; Dneprov, A. Lubkov, G. V.; Loginov, L. A.
TITLE: An automatic line for continuous adjusting, cutting, and inspecting for the presence of surface defects and for the type of steel or the hardness of metallic rods. The Crass 49, No. 184589 / Announced by Moscow Metallurgical Plant "Sickle and Hammer" of the Crass of Lonin and the Order of the Workers' Red Banner (Moskovskiy ordena Lenina ordena Trudovogo Krasnogo Znameni metallurgicheskiy zavod "Serp i molot")
DOURGE: Izobret prom obraz tov zn, no. 15, 1966, 133-134
on the state of th
ABSTRACT: This Author Certificate presents an automatic line for continuous adjusting, cutting, and inspecting for the presence of surface defects and for the type of steel or hardness of metallic rods. To improve its efficiency and the quality of inspection, the line contains a combination of consecutively mounted (along the course of the technological process): an assembly for adjusting and cutting the ends of the rods; an assembly for a simultaneous inspection of the rods for the presence of surface defects and for the type of steel or for the hardness (by a defectoscopic
Card 1/3 UDC: 620.179.6-422.2
S

ACC Na: AP6029954

assembly); and an assembly for sorting the usable and the defective rods (see Fig. 1).

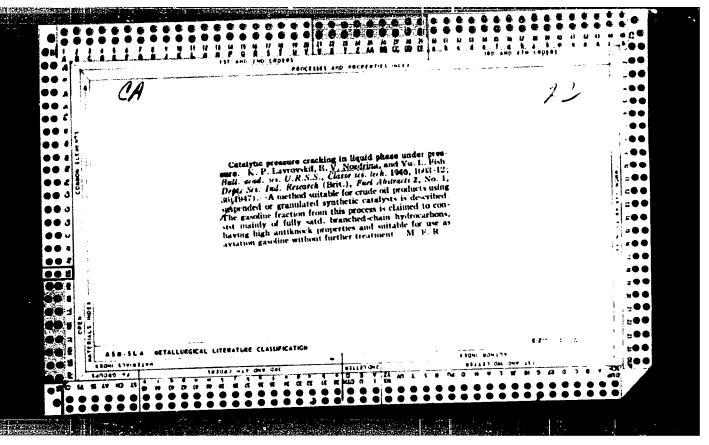
Fig. 1. 1 - assembly for adjusting and cutting; 2 - assembly for dismounting and transporting; 5 - defectoscopic assembly; 4 - assembly for sorting the usable and the defective products; 5 - movable blade; 5 - knufe finger; 7 - knuckled drum; 8 - clutch; 9 - roller; 10 - lever; 11 - movable carriage; 12 - rod; 13 - semiclutch; 14 - lever; 15 - sprocket

ACC NR AP6029954

The somewhy for adjusting and cutting of the rods being inspected may contain a fewer under with an envable stade. The shear contains a finger, a grun knuckle with a contoured recess for receiving the finger of the blade, a clutch mounted an one roller, a system of levers connected to a bearing carriage and absorbing the force of a blow from the moving rod being inspected and transmitting the movement to one of the semiclutches. The assembly for adjusting and cutting the inspected rods may also contain a mechanism for collecting the cut rods. This mechanism is made in the form of a lever kinematically connected to a sprocket mounted on the roller which also carries the knuckled drum and the clutch. Orig. art. has: 1 figure.

SUB CODE: 18, Q5 SUBM DATE: 10Dec63

\_Card 3/3



NOZDRINA, YE. V.

PA 243T6

USSR/Chemistry - Polymerization, Liquid Fuels

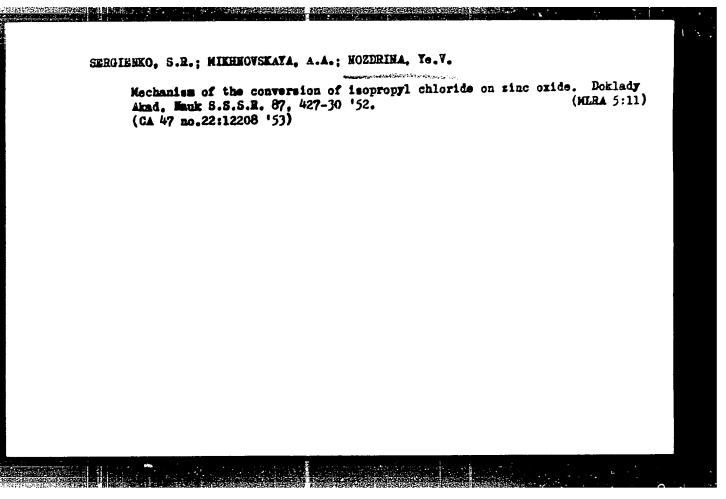
Jul 52

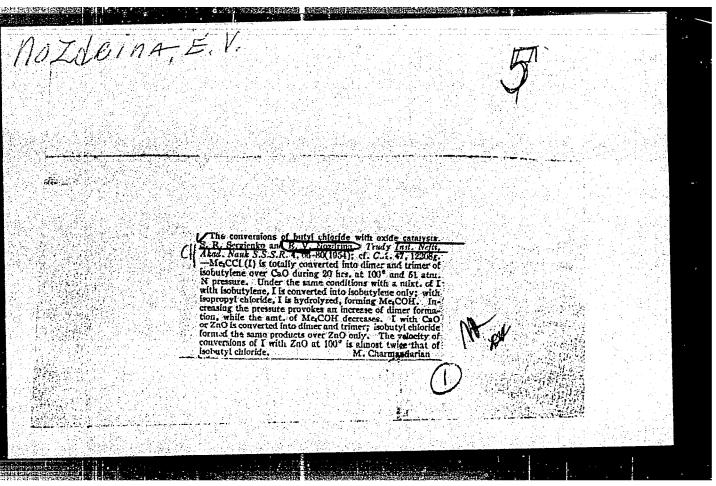
"Investigation of the Interaction of Diolefins with Alkyl Halides in the Presence of Oxide Catalysts," S. R. Sergiyenko, A. A. Mikhnovskaya, Ye. V. Nozdrina

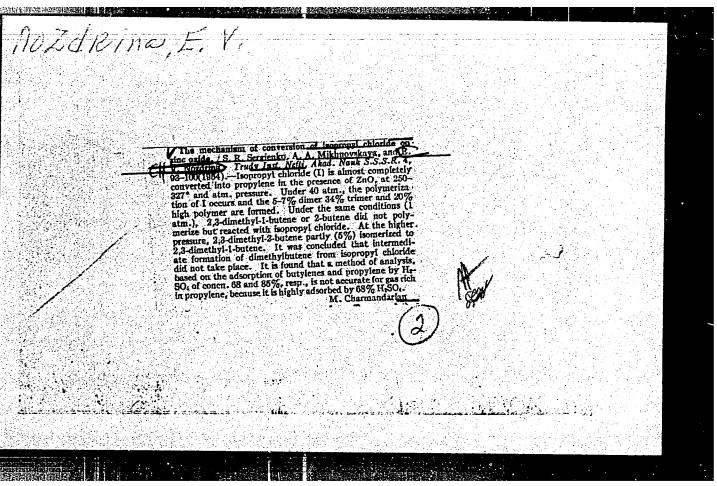
"Trudy Inst Nefti" Vol 2, pp 22-32

At 250° and 36-37 atm, isopropyl chloride in the presence of zinc oxide is converted into a gas contg up to 90% of propene, some butene, and the following products of the polymerization of propene: trimer (34.1%) and higher polymers (20%). Branched nonylenes prodominate in the trimer fraction. Isoprene under the conditions described above subjected principally to cyclic dimerization. Alkylation of isoprene with isopropyl chloride did not take place under the conditions of the expt. Methylations of olefins were successfully carried out, however (cf. A. P. Elitekovis work which led to the synthesis of triptane and B. L. Moldavskiy's research, "Zhur Obshch Khimii," Vol 16, No 3, p h27, 1946).

PA 243T6







MOZDRIMA, Ye. V.

"Conversions of Alkyl Chlorides and Their Reactions With Unsaturated Hydrocarbons in the Presence of Calcium Oxide and Zinc Oxide." Cand Chem Sci, Inst of Patroleum, Acad Sci USSR, Moscow, 1955. (EL, to 17, Apr 55)

SO: Sum. No. 70h, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

#### CIA-RDP86-00513R001237620007-3 "APPROVED FOR RELEASE: 07/13/2001

Study of the chemical nature of high-molecular-weight bicyclic aromatic condensation compounds of Romashkino petroleum by the method of cataly-

tic hydrogenation in the presence of Raney nickel. Article No.20. Trudy Inst.nefti 12:147-155 '58. (Aromatic compounds) (Hydrogenation) (Catalysis)

SERGIYENKO, S.R.: NOZHKINA, I.A.: NOZDRINA, Ye.V.

SERGITENKO, S.R.; MOZDRINA, Ye.V.; MOZHKINA, I.A.

Hydrogenation of high-molecular-weight bicyclic aromatic condensation compounds of Romashkino petroleum carried out under mild conditions in the presence of the catalyst WS2-MiS-Al203. Article Mo.21. Trudy in the presence of the catalyst WS2-MiS-Al203. Article Mo.21. Trudy (MIRA 12:3)

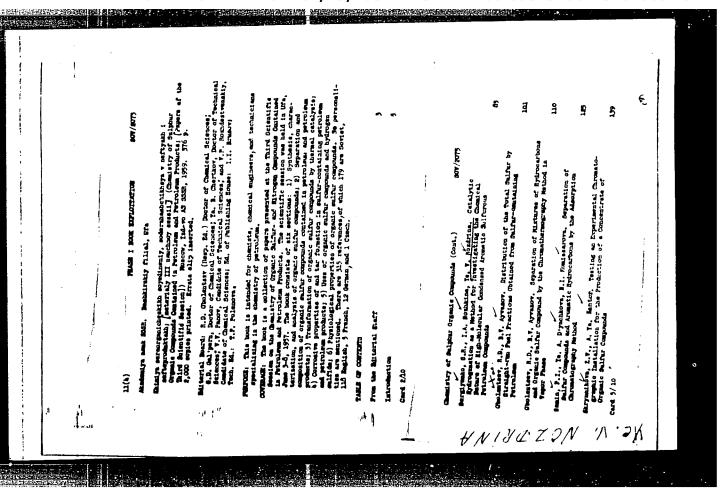
[Hydrogenation] (Catalysts) (Hydrocarbon)

SERGIYENKO, S.R.; NOZHKINA, I.A.; NOZDRINA, Ye.V.

Hydrogenation of tars extracted from Romashkino petroleum. Article No. (MIRA 12:3)

22. Trudy Inst.nefti 12:168-174 '58. (MIRA 12:3)

(Hydrogenation) (Tar)



EOZIRINA, Ye.V.; SERGIYENKO, S.R.

Selectric catalytic hydrogenation and dehydrogenation methods used for the purpose of elucidating the structure of high molecular weight aromatic petroleum hydrocarbons. Trudy Inst.usfti 13:127-144 '59.

(MIRA 13:12)

(Hydrocarbons) (Hydrogenation) (Dehydrogenation)

NOZDRINA, Zinalda Ivanovna; KANDYBIN, M., red.; IVANOV, N., tekhn.red.

[Our goals; efforts to fulfill the seven-year plan of the collective farm in four years] Mashi rubeshi; is opyta bor'by za vypolnenie kolkhoznoi semiletki v chetyre goda. Kaluga. Kaluzhskoe knizhnoe izd-vo. 1960. 54 p. (MIRA 14:2)

1. Predsedatel kolkhoza imeni Kutuzova Maloyaroslavetskogo rayona Kaluzhskoy oblasti (for Nozdrina). (Maloyaroslavets District---Collective farms)