

50 61240

AUTHORS:	Gol'dfarb, Ya. L., Fabrichnyy, B. P., Shalavina, I.F
TITLE:	The Synthesis of Amino Acids of the Aliphatic Series From Thiophene Derivatives (Sintez aminokislot alifaticheskogo ry- ada iz proizvodnykh tiofena) II. The Synthesis of β -Amino Acids (II. Sintez β -Aminokislot)
PERIODICAL:	Zhurnal Obshchey Khimii, 1958, Vol28, Mr 1, pp.213-222(USSR)
ABSTRACT: Card 1/3	In recent years new data were published in periodicals on the investigation of β -amino acids, as biologically active compounds, of whom earlier little notice had been taken. Thiophene as initial product (references 4 and 5) began to play an important part. The way from thiophene and its ho- mologues to amino acids is illustrated by the formulae (I), (II) and (III). The second stage of this process consists of the condensation of the aldehyde, which can easily be produced, with malonic acid and ammonia to β -amino acid ac- cording to V. M. Rodionov. The final stage is brought about by the reducing desulphurization with the aid of nickel. The
•	

CIA-RDP86-00513R00041232



"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232 79-1-45/63 The Synthesis of Amino Acids of the Aliphatic Series From Thiophene Derivatives. II. The Synthesis of A-Amino Acids with hydrochloric acid the hydrochloride of ϑ , ϑ -dimethyl-- β -aminopropionic acid was obtained; by neutralization free amino acid was liberated. There are 19 references, 10 of which are Slavic. Institute for Organic Chemistry AN USSR ASSOCIATION: (Institut organicheskoy khimii Akademii nauk SSSR) SUBMITTED: December 15, 1956 AVAILABLE: Library of Congress Card 3/31. Chemistry 2. Amino acids-Synthesis 3. Aliphatic compounds

4. Thiophene

CIA-RDP86-00513R00041232

SALE AND THE MORE MADE

FABRICHNYY, B.P.; SHALAVINA, I.F.; GOL'DFARB, Ys.L. Synthesis of aliphatic amino acids from thiphene derivatives. Part 3: Synthesis of W-amino acids. Zhur.ob.khim. 28 no.9: 2520-2530 S '58. (MIRA 11:11) 1. Institut organicheskoy khimii AN SSSR. (Amino acids)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(

YAST TORSE

5 (3) AUTHORS:

TITLE:

PERIODICAL:

ABSTRACT:

Col'dfarb, Ya. L., Fabrichnyy, B. P., SOV/79-29-3-30/61 Shalavina, I. F. Synthesis of the Aliphatic Amino Acids From the Thiophene Derivatives (Sintez alifaticheskikh aminokislot iz proizvodnykh tiofena). IV. 5-Acyl-(2-thienyl)-alkanic Acids as Initial Products for the Synthesis of the Aliphatic Amino Acids (IV. 5-Atsil(2-tiyenil)-alkanovyye kisloty kal iskhodnyye veshchestva dlya polucheniya alifaticheskikh aminokislot) Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 891-897 (USSR) There are comparatively little data available on the highest

aliphatic amino acids of the structure $RCH(NH_2)(CH_2)_nCOOH$, where R = alkyl, although they are interesting as polycondensation objects (Ref 1) or as derivatives for physiological investigations (Ref 2). Their general method of synthesis is so far unknown; for the synthesis of some of these amino acids natural products were used; thus, for instance, the 10-amino-undecanic acid (Refs 1,2) was obtained from

CIA-RDP86-00513R00041232

en ann e an te Frige

Synthesis of the Aliphatic Amino Acids From the Thiophene Derivatives. IV. 5-Acyl-(2-thienyl)-alkanic Acids as Initial Pro-SOV/79-29-3-30/61 ducts for the Synthesis of the Aliphatic Amino Acids undecylenic acid which is formed on the pyrogenetic cleavage of castor oil. The method previously suggested by the authors which is based on the reductive desulfurization (hydrogenolysis) of the oximino and amino acids of the thiophene series (Refs 3-8) yields aliphatic amino acids of any kind. The thiophene-keto acids previously used by the authors permit only the synthesis of such amino acids in which the carbon atom, as carrier of the amino group, is combined with an alkyl which contains not less than 4 carbons. This restriction was partly removed with the oximes of the aldehyde acids as initial products (Ref 8). In the present paper the synthesis of the highest amino acids of the mentioned type from the oximes of the keto acid (II) according to the given scheme is described. In this way the highest aliphatic amino acids can be synthesized which have the amino group in the required position to the carboxyl and an alkyl radical at the carbon atom combined with the amino group, with the necessary number of carbon atoms. The experimental part gives details on the Card 2/3carrying out of the reaction scheme mentioned. By the

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232 SOV/79-29-3-30/61 Synthesis of the Aliphatic Amino Acids From the Thiophene Derivatives. IV. 5-Acyl-(2-thienyl)-alkanic Acids as Initial Products for the Synthesis of the Aliphatic Amino Acids hydrogenolysis of the eximes which were obtained from the thiophene keto acids the following acids were synthesized by means of the skeleton-nickel catalyst: The 10-amino undecanic, 11-aminolauric, 9-amino undecanic, and 11-amino tridecanic acid. There are 3 tables and 8 references, 6 of which are Soviet. ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR (Institute of Organic Chemistry of the Academy of Sciences, USSR) January 20, 1958 SUBMITTED: $C_{ard} 3/3$

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(

(1) 计算机系统中的电路中的系统系统中的电路中的系统。

5 (3) AUTHORS:	Gol'dfarb, Ya. L., Polonskaya, M. M., SOV/20-126-1-23/6? Fabrichnyy, B. P., Shalavina, J. F.
TITLE:	Reductive Acetylation of Thiophene Series Nitrocompounds in the Presence of Skeleton Nickel (Vosstanovitel'noye atsetilirovaniye nitrosoyedineniy ryada tiofena v prisutsvii skeletnego nikelya)
PERIODICAL:	Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 1, pp 86 - 89 (USSR)
ABSTRACT:	The first and the third author proved earlier (Ref 1) that d - -amino-valeric acid is produced with a small yield by the ef- fect of skeleton nickel (Ni _{sk}) on the 5-nitro-2-thiophene-car-
	boxylic acid (I). On the strength of reference 2 the authors tried to increase this yield by the application of acetic acid anhydride as medium. However, they succeeded only in isolating the acetyl-amino acid (II) from the reaction mixture. The re- cognition that this acid produces (III) in the case of the ef- fect of Ni _{sk} in the aqueous medium (Ref 3) led to the conclusion
	that the acetic acid anhydride deactivates Nisk. This conclusion
Card 1/3	was confirmed in the case of two other examples. Thus the react-

CIA-RDP86-00513R00041232

- THE PARTY & REALING

Reductive Acetylation of Thiophene Series Nitrocompounds in the Presence of Skeleton Nickel ion of Ni_{sk} with thiophene-nitroderivatives remains under the mentioned conditions in the production stage of an acetyl-amino compound. That is to say, the result of the process is a re-

ductive acetylation. Although the effect of the solvent upon the reducing properties of Ni in the case of the hydrogenation of the thiophene derivatives has already been published

(Ref 4) the authors could not find data concerning the capacity of the acetic acid of suppressing the desulfurizing function of Ni in such cases. The authors found contradictions in the publications concerning the properties of the 5-section

in the publications concerning the properties of the 5-acetylamino-2-thiophene-carboxylic acid (II) (Refs 6-11) when they

identified the latter. Since the melting point $230-232^{\circ}$ of the acetyl-amino acid (with a II-structure as is assumed) produced by the authors did not agree with that of the publications

(272[°]) they determined the position of the acetyl-amino group in the nucleus. Thus the structure II was confirmed. On the strength of these data the authors doubted whether the experi-

Card 2/3

t,

compounds in	the Presence of Skeleton Nickel mental results of reference 8 were right. The authors then re- peated the experiment of reference 8 and obtained acid potas-
	sium tartarate with a melting point 273-274°. The authors as- sume that Campaigne and Archer (Ref 8) erroneously regarded this acid salt as the acetyl-amino acid (II). There are 18 ref- erences, 3 of which are Soviet.
ASSOCIATION:	Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences,USSR)
PRESENTED:	February 25, 1959, by B. A. Kazanskiy, Academician
SUBMITTED:	February 16, 1959
Card 3/3	
	•

CIA-RDP86-00513R00041232

FABRICHNYY, B. P. (Prof.)

"A New Principle of Synthesis of Amino Acids." '

report to be submitted for the Symposium on the Chemistry of Natural Products, Intl. Union of Pure and Applied Chem. (IUPAC), Melbourne, Canberra, and Sydney, Australia, 15-25 Aug 60

Inst. of Organic Chemistry im N. D. Zelinskiy, Moscow

CIA-RDP86-00513R00041232



CIA-RDP86-00513R00041232

NO AGUINT

GOL'DFARB, Ya.L.; FABRICHNYY, B.P.; SHALAVINA, I.F.

Synthesis of aliphatic amino acids from thiophene derivaties. Part 6: Preparation of \mathcal{E} - and \mathcal{P} -amino acids and C-substituted lactams. Zhur.ob.khim. 31 no.6:2057-2064 Je '61. (MIRA 14:6)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR. (Amino acids) (Lactams)

CIA-RDP86-00513R00041232



 Gol'dfarb, Ya. L. FITLE: Polymerization of C-ethyl and C-propyl substituted enantholactams PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 12, 1962, 1829-1832 PEXT: The susceptibility of §-ethyl-§-enantholactam and of §-n-propyl-§-enantholactam to polymerization was investigated. Synthesis: The lactam of δ-(3-aminothienyl-2)-valeric acid, or the lactam of δ-(3-amino-5-methyl-chienyl-2)-valeric acid, or the lactam of δ-(3-amino-5-methyl-chienyl-2)-valeric acid was obtained from 2', 3'-thiopheno-1, 2-cyclo-neptan-3-one oxime or from 5'-methyl-2', 3'-thiopheno-1, 2-cycloheptan-3-one oxime or from 5'-methyl-2', 3'-thiopheno-1, 2-cycloheptan-3-one oxime the sulfur was eliminated with skeleton nickel, and the louble bonds of the thiophene ring were hydrogenated. The polymerization was carried out at 220-280°C with 2½ H₂O as catalyst in N₂ atmosphere. 	•			
Gol'dfarb, Ya. L. FITLE: Polymerization of C-ethyl and C-propyl substituted enantholactams PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 12, 1962, 1829-1832 FEXT: The susceptibility of ξ -ethyl- ξ -enantholactam and of ξ -n-propyl- ξ - enantholactam to polymerization was investigated. Synthesis: The lactam of δ -(3-aminothienyl-2)-valeric acid, or the lactam of δ -(3-amino-5-methyl- thienyl-2)-valeric acid was obtained from 2', 3'-thiopheno-1, 2-cyclo- neptan-3-one oxime or from 5'-methyl-2', 3'-thiopheno-1, 2-cycloheptan-3-one oxime by Beckmann rearrangement in the presence of benzene sulfochloride. At the same time the sulfur was eliminated with skeleton nickel, and the Houble bonds of the thiophene ring were hydrogenated. The polymerization was carried out at 220-280°C with 2 λ H ₂ O as catalyst in N ₂ atmosphere. Solid, glass-like substances with m.p. 170°C were obtained, which can be	•	S/190/62/004/012/008/015 B101/B186	•	
PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 12, 1962, 1829-1832 TEXT: The susceptibility of $\{-\text{ethyl}-\}-\text{enantholactam}$ and of $\{-n-\text{propyl}-\}-$ enantholactam to polymerization was investigated. Synthesis: The lactam of $\delta-(3-\text{aminothienyl}-2)-\text{valeric}$ acid, or the lactam of $\delta-(3-\text{amino}-5-\text{methyl}-$ chienyl-2)-valeric acid was obtained from 2', 3'-thiopheno-1, 2-cyclo- meptan-3-one oxime or from 5'-methyl-2', 3'-thiopheno-1, 2-cycloheptan-3-one oxime by Beckmann rearrangement in the presence of benzene sulfochloride. At the same time the sulfur was eliminated with skeleton nickel, and the louble bonds of the thiophene ring were hydrogenated. The polymerization was carried out at 220-280°C with 2π H ₂ O as catalyst in N ₂ atmosphere. Solid, glass-like substances with m.p. 170°C were obtained, which can be	AUTHORS:	Volokhina, A. V., Fabrichnyy, B. P., Shalavina, I. F., Gol'dfarb, Ya. L.		
1829-1832 FEXT: The susceptibility of $\{-ethyl-\}-enantholactam and of \{-n-propyl-\}-enantholactam to polymerization was investigated. Synthesis: The lactamof \delta-(3-aminothienyl-2)-valeric acid, or the lactam of \delta-(3-amino-5-methyl-thienyl-2)-valeric acid was obtained from 2', 3'-thiopheno-1, 2-cyclo-meptan-3-one oxime or from 5'-methyl-2', 3'-thiopheno-1, 2-cycloheptan-3-oneoxime by Beckmann rearrangement in the presence of benzene sulfochloride.At the same time the sulfur was eliminated with skeleton nickel, and thedouble bonds of the thiophene ring were hydrogenated. The polymerizationwas carried out at 220-280°C with 2\frac{1}{2} H2O as catalyst in N2 atmosphere.Solid, glass-like substances with m.p. 170°C were obtained, which can be$	PITLE:	Polymerization of C-ethyl and C-propyl substituted enantholactams		
TEXT: The susceptibility of $\{-ethyl-\}-enantholactam and of \{-n-propyl-\}-enantholactam to polymerization was investigated. Synthesis: The lactamof \delta-(3-aminothienyl-2)-valeric acid, or the lactam of \delta-(3-amino-5-methyl-thienyl-2)-valeric acid was obtained from 2', 3'-thiopheno-1, 2-cyclo-meptan-3-one oxime or from 5'-methyl-2', 3'-thiopheno-1, 2-cycloheptan-3-oneoxime by Beckmann rearrangement in the presence of benzene sulfochloride.At the same time the sulfur was eliminated with skeleton nickel, and thedouble bonds of the thiophene ring were hydrogenated. The polymerizationwas carried out at 220-280°C with 2\frac{1}{2} H2O as catalyst in N2 atmosphere.Solid, glass-like substances with m.p. 170°C were obtained, which can beCard 1/2$	PERIODICAL:	Vysokomolekulyarnyye soyedineniya, v. 4, no. 12, 1962, 1829-1832		
	enantholactam of &-(3-amino thieny1-2)-va neptan-3-one oxime by Beck At the same t double bonds was carried o	to polymerization was investigated. Synthesis: The lactam thienyl-2)-valeric acid, or the lactam of δ -(3-amino-5-methyl- leric acid was obtained from 2',3'-thiopheno-1,2-cyclo- oxime or from 5'-methyl-2',3'-thiopheno-1,2-cycloheptan-3-one mann rearrangement in the presence of benzene sulfochloride. ime the sulfur was eliminated with skeleton nickel, and the of the thiophene ring were hydrogenated. The polymerization ut at 220-280°C with 2% H ₂ O as catalyst in N ₂ atmosphere.		a se

<pre>pulled out to filaments at 175°C and from the hot alcoholic solution of which films can be formed. The polymer yield was more than 99%, the intrinsic viscosity reached 0.50 for the ethyl derivative, and 0.30 for the propyl derivative. Conclusion: In contrast to the seven-membered caprolactam ring, the polymerization susceptibility of the eight-membered enantholactam ring is not affected by substituents. There is 1 figure. The most important English-language reference is: H. K. Hall, J. Amer. Chem. Soc., 60, 6404, 1956.</pre> ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (All-Union Scientific Research Institute of Synthetic Fibers); Institut organicheskoy khimii im. N. D. Zelinskogo AN USSR (Institute of Organic Chemistry imeni N.D.Zelinskiy AS USSR) SUBMITTED: July 7, 1961			s/190/62/004/012/008/015	•
<pre>which films can be formed. The polymer yield was more than 99%, the intrinsic viscosity reached 0.50 for the ethyl derivative, and 0.30 for the propyl derivative. Conclusion: In contrast to the seven-membered caprolactam ring, the polymerization susceptibility of the eight-membered enantholactam ring is not affected by substituents. There is 1 figure. The most important English-language reference is: H. K. Hall, J. Amer. Chem. Soc., 80, 6404, 1958. ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (All-Union Scientific Research Institute of Synthetic Fibers); Institut organicheskoy khimii im. N. D. Zelinskogo AN USSR (Institute of Organic Chemistry imeni N.D.Zelinskiy AS USSR) SUBMITTED: July 7, 1961</pre>	Polymerizatio	on of C-ethyl and.'.	B101/B186	;
volokna (All-Union Scientific Research Institute of Synthetic Fibers); Institut organicheskoy khimii im. N. D. Zelinskogo AN USSR (Institute of Organic Chemistry imeni N.D.Zelinskiy AS USSR) SUBMITTED: July 7, 1961	which films of intrinsic vis propyl derive caprolactam r enantholactam The most impo	an be formed. The polymer yield acosity reached 0.50 for the ethy ative. Conclusion: In contrast ring, the polymerization suscepti a ring is not affected by substit ortant English-language reference	was more than 99%, the derivative, and 0.30 for the to the seven-membered bility of the eight-membered uents. There is 1 figure.	
	ASSOCIATION:	volokna (All-Union Scientific F Fibers); Institut organicheskoy AN USSR (Institute of Organic C	lesearch Institute of Synthetic khimii im. N. D. Zelinskogo	• :
	SUBMITTED:	July 7, 1961		• •
Card 2/2 :	Card 2/2	;	•	

VOLOKHINA, A.V.; FABRICHNYY, B.P.; SHALAVINA, I.F.; GOL'DPARE, Ya.L.
Polymerization involving ethyl- and propyl-substituted enantholactame. Vysokom. soed. 4 no.12:1829-1832 D '62. (MIRA 15:12)
1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna i Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR. (Azicinone) (Polymerisation)

CIA-RDP86-00513R00041232

OF STATES AND

- APRIL AND A DECK



CAN ALT ALT ALL AND A

Syntheses based on aldehydes of the thiophene series. Part 1. Synthesis of some aliphatic hydroxy amino acids from thiophene derivatives. Izv. AN SSSR. Ser. khim. no.12:2172-2177 D '63. (MIRA 17:1) 1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

CIA-RDP86-00513R00041232





CIA-RDP86-00513R00041232

FABRICHNYY, B.P.; SHALAVINA, T.F.; COLIDFARB, Ya.L.

Synthesis of aliphatic amino acids from thisphene derivatives. Fart 8: Influence of certain factors on the product yield in the reduction desulfurization stage. Zhur. (b. khim. 34 no.12:3878-3887 D 164 (MIRA 18:1)

1. Institut organicheckoy khimii im. N.D. Zelinskogo A4 530B.

WT(m)/EPF(c)/EWP(j)/TPc-4/Pr-4 ΠĦ s/0190/65/007/003/0465/0490 - 20/24-65 AP5008374 ACCESSION NRI AUTHURS: Salamatina, O. B.; Bonetskaya, A. K.; Skuratov, S. M.; Fabrichnyy, B. P.; Shelavina, I. F.; Gol'dfarb, Ya. k. TITLE: Kinetics and thermal effect of polymerization of some C-alkyl substituted ね lactans SCURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 3, 1965, 485-490 TOPIC TAGS: alkylation, polymerization, kinetics, thermal effect ABSTRACT: A study was made of the kinotics of polymerization of 5-CH3-, 7CH3-, 70 2Hz - and 70 3H7-caprolactums and 8-C2H5- and 8C3H7-enantholactams in the presence of water along and with different amounts of phosphoric acid at 2400. The 7-33h7-caprolactam was synthesized. The others were obtained from VNIIV. For polymerization in water it was found that the process is autocatalytic for C alkyl substituted and unsubstituted lactams alike, that the substitution in a lectam molecule sharply lowers the reaction rate, that the degree of conversion from monomer to polymer at maximum rate also declines markedly for both alkylated caprolactams and alkylated mantholactams, and that the time of reaching maximum Card 1/2

19.10 B

L 38634-65	Free of plants in the block		
L 33634-65 CCESSION NR: AP5008374		2	
		en phosphoric acid is present	
		ly increased, the rate increasing	
		ion at the maximum rate decreases the time for reaching maximum	
	. It was found that the ma		Į
the substitut	ed alkyl in the ring, and	that this rate decreases with	
		a substitution in caprolactams	
owers the thermal effect	of polymerization. Ethyl	eubstitution increases the	
milect, and propyl substi	tution does not change it.	Orig. art. has: 3 figures	
and 3 tables.			
SSOCIATION: Moskovskiy State University); Insti	ltut organicheskoy khimii i	at im. M. V. Lomonosova (Moscov	
ASSOCIATION: Moskovskiy State University); Insti Institute of Organic Che	ltut organicheskoy khimii i	at im. M. V. Lomonosova (Moscov	
ASSOCIATION: Moskovskiy State University); Insti (Institute of Organic Che WBMITTED: 304ay64	itut organicheskoy khimii i mistry, AN SSSR)	et im. M. V. Lomonosova (Moscov Im. Zelinskogo, AN SSSR	
ASSOCIATION: Moskovskiy State University); Insti (Institute of Organic Che WBMITTED: 304ay64	Ltut organicheskoy khimii i amistry, AN SSSR) ENCL: 00	et im. M. V. Lomonosova (Moscov Im. Zelinskogo, AN SSSR	
and 3 tables. ASSOCIATION: Moskovskiy State University); Insti (Institute of Organic Che SUBMITTED: 304ay64 NO REF SOV: 007	Ltut organicheskoy khimii i amistry, AN SSSR) ENCL: 00	et im. M. V. Lomonosova (Moscov Im. Zelinskogo, AN SSSR	

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232
 FAERICHNYY, B.P.; SHALAVINA, I.F.; GOL'DFARB, Ya.L.
 FAERICHNYY, B.P.; SHALAVINA, I.F.; GOL'DFARB, Ya.L.
 New synthesis of 2,3,4,5-tetrahydrobiotin. Dokl. AN SSSR 162 no.1: (MIRA 18:5) 120-123 My '65.
 1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
 Submitted November 4, 1964.

 "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232
 GOL'DF/RB, Ya.L.; FABRICHNYY, B.F.; RCGCVIK, V.I.
 Syntheses and some transformations of methoxymethylthiophenes. Jzv. AN SSSR. Ser. khim. no.3:515-520 '65. (MIRA 18:5)
 I. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

SALAMATINA, O.B.; BONETSKAYA, A.K.; SKURATOV, S.M.; FABRICHNYY, B.P.; SHALAVINA, I.F.; GOL'DFARD, Ya.L.

THEFE SHEEPING ON REAL

Kinetics and the thermal effect of the polymerization of some C-alkyl-substituted lactams. Vysokom. soed. 7 no.3:485-490 Mr "65. (MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova i Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(

Contraction of the second second

FABRICHNYY, B.P.; SHALAVINA, I.F.; GOL'DFARB, Ya.L.

Synthesis of aliphatic amino acids from thiophene derivatives. Part 9: Preparation of α -alkyl- \mathcal{E} -caprolactams and α -alkyl- \mathcal{E} -aminocaproic acids. Zhur. org. khim. 1 no.8:1507-1514 Ag '65. (MIRA 18:11)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

والمراجع والمراجع

e y synapsystem i t

CIA-RDP86-00513R00041232

392 m 1

FABRICI, Imrich

MINERAL PROPERTY AND ADDRESS

A note on F-classes in commutative Hausdorff bicompact semigrqups. Mat fyz cas SAV 11 no.4:282-287 '61.

1. Katedra matematiky, Slovenska vysoka skola technicka, Bratislava, Kollarovo namesti 2.

VERSENTANCE WOR

· 《日本》中下的主义和经济

.....

FABRICI, Imrich

FRISCRIGE REAL TRACK

The totally maximal elements in semigroups. Mat fyz SAV 13 no.1:16-19 163 .

1. Katedra matematiky a deskriptivnej geometrie, Elektrotechnicka fakulta, Slovenska vysoka skola technicka, Bratislava, Gottwaldovo namesti 2.



APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDI

CIA-RDP86-00513R00041232(



CIA-RDP86-00513R00041232



CIA-RDP86-00513R00041232



CIA-RDP86-00513R00041232

 UBSR/Radio - Phonographs Apr 51 "Radio-Phonograph With Push-Button Tuning," Yu. Figurovskiy, M. Fabrik "Radio" No 4, pp 22-25 Model 1 has long- and medium-wave bands and 4-station push-button tuning. Also has one button for phonograph operation. Special feature is use of cathode detector, which increases selectivity as compared with grid detector with some sacrifice in gain. Parameters of radio-phonograph are: Output power, 10 w; harmonic factor, 8%; frequency response, 50-6,000 cps; power drawn from line, 70 w; sensitivity, 100 mw; and selectivity for 25 kc detuning, 30 db. 	FABRIK M.		181 1%	
"Radio-Phonograph With Push-Button Tuning," Yu. Figurovskiy, M. Fabrik "Radio" No 4, pp 22-25 Model 1 has long- and medium-wave bands and 4-station push-button tuning. Also has one button for phono- graph operation. Special feature is use of cathode detector, which increases selectivity as compared with grid detector with some sacrifice in gain. Parameters of radio-phonograph are: Output power, 10 W; harmonic factor, \Im ; frequency response, 50-6,000 cps; power drawn from line, 70 w; sensitivity, 100 mv; and selectivity for 25 kc detuning, 30 db.				
Figurovskiy, M. Fabrik "Radio" No 4, pp 22-25 Model 1 has long- and medium-wave bands and 4-station push-button tuning. Also has one button for phonograph operation. Special feature is use of cathode detector, which increases selectivity as compared with grid detector with some sacrifice in gain. Parameters of radio-phonograph are: Output power, 10 W; harmonic factor, 8; frequency response, 50-6,000 cps; power drawn from line, 70 w; sensitivity, 100 mv; and selectivity for 25 kc detuning, 30 db.		UESR/Radio - Phonographs Apr 51		
Model 1 has long- and medium-wave bands and 4-station push-button tuning. Also has one button for phono- graph operation. Special feature is use of cathode detector, which increases selectivity as compared with grid detector with some sacrifice in gain. Parameters of radio-phonograph are: Output power, 10 W; harmonic factor, ∂_{p} ; frequency response, 50-6,000 cps; power drawn from line, 70 w; sensitivity, 100 mv; and selectivity for 25 kc detuning, 30 db.		"Radio-Phonograph With Push-Button Tuning," Yu. Figurovskiy, M. Fabrik		
push-button tuning. Also has one button for phono- graph operation. Special feature is use of cathode detector, which increases selectivity as compared with grid detector with some sacrifice in gain. Parameters of radio-phonograph are: Output power, 10 w; harmonic factor, ∂_{μ} ; frequency response, 50-6,000 cps; power drawn from line, 70 w; sensitivity, 100 mv; and selectivity for 25 kc detuning, 30 db.		"Radio" No 4, pp 22-25		
Parameters of radio-phonograph are: Output power, 10 w; harmonic factor, 8%; frequency response, 50-6,000 cps; power drawn from line, 70 w; sensitivity, 100 mv; and selectivity for 25 kc detuning, 30 db.		push-button tuning. Also has one button for phono- graph operation. Special feature is use of cathode detector, which increases selectivity as compared		-
cps; power drawn from line, 70 w; sensitivity, 100 mv; and selectivity for 25 kc detuning, 30 db.		Parameters of radio-phonograph are: Output power, 10		
		cps; power drawn from line, 70 w; sensitivity, 100 mv; and selectivity for 25 kc detuning, 30 db.		

1940 (* 19

USSR/ Elect	ron	ics - Tape recordors	
Card 1/1	:	Pub. 89 - 22/26	
Authors	1	Kozyrev, A., and Fabrik, M.	
Title	1	Triple-motor tape-roller mechanism	
Periodical		Radio 12, 46-50, Dec 1954	
Abstract	8	A simple-type triple-motor magnetic tape roller mechanism is descented hold a 700 meter tape that can be used for 30 minutes at a speed of 385 mm/sec, or 15 minutes at a speed of 770 mm/sec mechanism can be fed from a 110, 127 or 220 volt line. A selsym syster, designed for a 50-cycle network, can also be used as a d mechanism instead of the motor. Electric brakes are provided in conventional tape brakes. A general layout of the mechanism, th ment of parts and detailed shop drawings are presented. The pri adjusting the mechanism, reversing its notion, braking and instead stopping, by means of selecting the optimum voltages are discuss drawings; circuit diagram.	oundscribing The generator riving stead of the a arrange- nciples of untaneous
Institutio	on :		•
Submitted			
		anda in the second s The second sec	in the second
CIA-RDP86-00513R00041232

中国生活和自然有效影响的社会

KOZYREV, Anatolii Vladimirovich; FABRIK, Mark Abramovich; KANNYOKAYA, M.D., redaktory; TROITSKIY, L.V., redaktor; ANDHTONOV, B.I., tekhnicheskiy redaktor
[Design of amateur magnetic recorders] Konstruirovanie liubitel'skikh magnitofonov. Moskva, Izd-vo DOSAAP, 1956. 175 p. (MIRA 9:9) (Magnetic recorders and recording)

USSR/Electr	-ABRIK, M. ronics - Sound recording	
	Pub. 89 - 17/33	
Card 1/1		
Authors	* Kozyrev, A., and Fabrik, M.	
Title	* Magnetic tape recorder with amplifier operating	on transistors
Periodical	Radio 2, 37-39, Feb 56	
Abstraot	A technical description is given for a magnetic dimensions, fed from a battery with its ribbon m spring motor, and intended for taking dictation an instrument it is found feasible to use juncti amplifier instead of electron tubes. The techni fier including a statement of the parts involved given along with directions for its adjustment.	when traveling. For such on transistors in the cal details of this ampli-
	diagram.	
Institution	1 •••••	
Submitted	ана са стана се стана В стана се с По стана се	

CIA-RDP86-00513R00041232

CHERT WORLD HERE

TTERY	\overline{Z}	J. A.	THEFT WERE AND THE FORMER
Subject			AID P - 4395
			A12 1 - 4395
Card 1/1	P	ub. 89 - 4/11	
Authors	:	Kozyrev, A. and M. Fabrik	
Title	:	Magnetophone with triode-trans	sistor amplifier
Periodical	:	Radio, 3, 30-39, Mr 1956	•
Abstract		The operation of the tape, its details are described. Nine d detailed picture of the entire	mounting and design lagrams present a very operation.
Institution	:	None	
Submitted	:	No date	

1285565.025

	Subject	:	USSR/Electronics AID P - 4929
	Card 1/1 .	Pu	b. 89 - 13/17
	Authors	:	Kozyrev, A., and M. Fabrik
	Title	:	Amateur magnetic recorder
	Periodical	:	Radio, 7, 45-48, Jl 1956
	Abstract	:	The authors describe the procedure in producing a magnetic recorder by the means available to an average radio amateur. The type described corresponds to the "Dnepr-3" and "Dnepr-5" types. It permits recording a band of frequencies from 100 to 7000 cycles with a recording speed of 381 mm/sec. This speed, may be reduced at will, to 190.5 mm/sec. The first part of the article gives a detailed description of the driving mechanism. Six detailed drawings.
	Institution	:	None
	Submitted	:	No date
235	MENT CONCEPTION NOT		

Subject	:	USSR/Electronics AID P - 4943
Card 1/1	Ρι	ab. 89 - 10/18
Authors	:	Kozyrev, A. and M. Fabrik
Title	:	Amateur magnetic recorder
Periodical	:	Radio, 8, 34-36, Ag 1956
Abstract	:	This is the second and final part of an article by the same authors (this journal, #7, 1956). It deals with the electrical parts of the magnetic recorder, which are aslo presented in a detailed connection diagram. Two tables of specifications, 1 drawing of the assembled recorder.
Institution	:	None
Submitted	:	No date
4581-51001-258763-419-55		

CIA-RDP86-00513R00041232

15日1日15月1日

Subject	: USSR/Electronics AID P - 5022
Card 1/1	Pub. 89 - 7/14
Authors	: Fabrik, M. and Yu. Osipenkov
Title	: Automobile radio receiver
Periodical	: Radio, #9, 34-38, S 1956
Abstract	: The authors describe in detail an experimental model of an automobile radio receiver. It is equipped with only one vacuum tube and with nine triode transistors of the PIZH and P3A types. The detector is equipped with a diode transistor of the DG-Ts8 type. One connection diagram, 2 drawings of assembled details.
Institution	None
Submitted	: No date

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(

THE R. S. S. S. S.

ACC NR, AT7000712	SOURCE CODE: UR/0000/66/000/00045/0050
AUTHOR: Kozhevnikov, S. N. (Candidate of technical scie Fabrika, L. P. (Engineer)	(Corresponding member AN UkrSSR); Prazdnikov, A. V. nces); Ioffe, A. M. (Candidate of technical sciences);
ORG: None	
TITLE: Use of electronic si fecd mechanism on a pilger m	mulation for studying the hydropneumatic system of the ill
SOURCE: Ukraine. Ministerst Gidroprivod i gidropnevmoavt no. 2. Kiev, Izd-vo Tekhnika	vo vysshego i srednego spetsial'nogo obrazovaniya. omatika (Hydraulic drive and hydropneumatic automation), , 1966, 45-50
NOPIC TAGS: rolling mill, p plication, analog computer	neumatic servomechanism, hydraulic device, computer ap-
the equation of motion of the s a feed mechanism for production unit contains a hydraulic brain nousing is tapered plunger 9	on is used for studying the operation of the feed mecha- method consists of using an analog computer for solving e moving masses in the mechanism. Shown in the figure uction of seamless tubes $219-325$ mm in diameter. The ake consisting of housing 4 with diaphragm 6. Inside the with a rod rigidly connected to plunger 3. The entire h water which is fed in at a pressure of $58.9 \cdot 10^4$ N/m ² .

CIA-RDP86-00513R00041232

"「新知道信息」》)而他也有些引

ACC NR: AT7000712

Rolls 1 move sleeve with mandrel 2 as well as plungers 9 and 3 from the extreme left-hand position toward the right. During this process, water from the main line flows through check valve 5 into cavities A and B. After completion of rolling, the moving masses are braked by comAir p_{1} Water 123

pressed air in chamber C and begin to move toward the left. On the return path, water from cavity B flows freely through valve 7 into the waste line until the end of the tapered plunger covers the diaphragm. At this point, the fluid pressure in chamber A rises and valve 7 cuts off the waste line. This begins braking of the moving masses. The fluid in chamber A is forced through the annulus between the tapered plunger and the diaphragm into chamber B and through pressure valve 14 into the waste line. Valve 14 is used for regulating braking conditions. The length of the braking path is adjusted by using screw 10 for setting piston 12 in measuring unit 11. When plunger 9 enters diaphragm 6, piston 12 is moved by fluid pressure to the extreme right-hand position. This action delivers a fixed quantity of fluid to

Card 2/3

and the second	· · · · · · · · · · · · · · · · · · ·	3167 Vielatetter
ACC NR: AT7000712		•
the cylinder of measuring unit 1 force on a given section of the 1 right-hand position, braking for completion of braking at the begi piston 12 to the original positic position. Electronic simulation mechanism as a function of their vas determined and operation of t barameters. The program included the moving masses. The resultant erably reduces the operating cycl eccleration of the moving masses etween the tapered plunger and the xcessive final velocity of the me alled for when the clearance reac hose of dynamic computation. Or	ce develops in the hydraulic brai inning of the rolling process, sj on while spring 8 returns slide was used for studying motion of magnitude, the working capacity the hydraulic brake was checked with isimulation of both the accelerate data show that an increase in a e of the mechanism accompanied by past the permissible value. An he disphragm to more than 0.4 mm oving masses during braking. Be	ops in the extreme king system. After pring 13 returns valve 7 to the neutral the masses in this of the feed mechanism with variations in ation and braking of dir pressure consid- by a sharp increase in the increase in the gap
B CODE: 13/ SUBM DATE: 29June	56	
rd_3/3		

12 STATISTICS

Bulgaria/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61532

Abstract: 8.5 g NaHCO3 and hydrolysis of the formed N-2-(5-brom)-furfuryl-N-acetylsulfonylamide, yield 65%, MP 135-136° (from alcohol), with 14% solution NaOH. Attempts to prepare homosulfanilamides from N-acetylhomosulfanil-chloride and furfurylamine or I, were unsuccessful. On interaction of α-bromomethyl-furan with acetyl derivative of homosulfanilamide (III) a substance was obtained which does not ment at 250° and having the composition corresponding to difurfurylated derivative of III.

Card 2/2

CIA-RDP86-00513R00041232



BULGARIA/Organic Chemistry. Synthetic Organic Chemistry.	G
Abs Jour: Ref Zhur-Khim., No 2, 1959, 4685.	
Author : Fabrikant. A.	
Inst : Title : Nitrofuran Derivatives. 5-nitrofurfuryl Ethers.	
Crig Pub: Khimiya i Industriya (Dulgaria), <u>30</u> , No 2, 40-42 (1958) (in Dulgarian).	
Abstract: 5-nitrofurfuryl alcohol (I), bp 160 /9 nm, has been prepared by the acid hydrolysis of 5-nitro- furfuryl acetate; I is converted in ether solution by treatment with FbR3 (30 min, 26°) to 5-nitro- furfuryl bromide, yield 65%, mp 46-47° (from pe- troleum ether). The latter product is converted to ethers of various types by treatment with the Na alcoholates of the corresponding alcohols in	
Card : 1/2	

CIA-RDP86-00513R00041232

CHILD NO. SALE AND A

Cut man and the

FAERIKANT, A.
"News in the field of flotation reagents; review of the publications during the last eleven years, 1946-1957 inclusive"
Khimiia i industriia. Sofiia, Bulgaria. Vol. 30, no. 3, 1958
Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(

CONTRACTOR OF A STREET STREET

CIA-RDP86-00513R00041232



FABRIKANT, A.

A source for effective flotation reagents. p. 173.

4、数据信息数据推广法的信息时间的利用行用的部分 合

GODISHNIK. Minno-geolozhki institut. Sofiia, Bulgaria. Vol. 5, No. 1, 1957/58 (published 1959)/

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960. UNCL

FABRIKANT, A.

Flotation properties of some thionaphtols. p. 179.

GODISHNIK. Minno-geoloshki institut. Sofiia, Bulgaria. Vol. 5, No. 1, 1957/58 (published 1959).

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960 UNCL

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(

en seggenicijs sue eerste opper

CIA-RDP86-00513R00041232

s/081/62/000/023/044/120 B166/B101 Fabrikant, A., Khadzhiyov, P. AUTHORS: 10 Intensification of thickening processes in ore dressing works made possible by the use of flocculants TITLE: Referativnyy zhurnal. Khimiya, no. 23, 1962, 387, abstract 23170 (Minno delo i metalurgiya, v. 17, no. 4, 1962, 25-27 PERIODICAL [Bulg.; summaries in Russ. and Ger.]) TEXT: The results of laboratory and pilot-plant tests on thickening processes are given. Amp (AMF) flocculants are recommended for use in Bulgarian ore dressing works. [Abstracter's note: Complete translation.] Card 1/1

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(

CIA-RDP86-00513R00041232

FABRIKANT, A.; KAMENOV, II.

Preparation of flotation reagents by pyrolyzing vulcanized caoutchouc waste. Pt. 1. Khim i industriia 36 no.4:136-138 164.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(

PURITISATION DEPENDENCE



CIA-RDP86-00513R00041232



CIA-RDP86-00513R00041232

FAERUKANT, G.L., RATTS, M.M.; FAERIKANT, G.L.; LIBERMAN, I. Penicillin in the treatment of syphilis in children. Pediatriia, Moskva No.1:35-40 Jan-Feb 51. (CIML 20:6) 1. Prof.M.M.Rayts; Candidates Medical Sciences G.L. Fabrikant and 1.S.Liberman. 2. Of the Syphilological Clinic of the Institute of Pediatrics of the Academy of Medical Sciences USSR (Head of Clinic-Prof.M.M.Rayts; Director of Institute-Honored Worker in Science Prof.G.N.Speranskiy, Active Member of the Academy of Medical Sciences USSR.

nan bereken in kranzen in kr

CIA-RDP86-00513R00041232

THR AL

FABRIKANT, G. L.

USER. "Physiology" Anatomical and Physiological pecularities of the child., I. M. OSTROVSKAYA. Reviewed by G. L. FABRIKANT., MED. sestra., 11, 1951

Monthly List of Russian Accessions, Library of Congress, March 1952, Uncl.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(

CIA-RDP86-00513R00041232





1979 B

YABRIKANT, O.L., kandidat meditsinskikh nsuk
Present-day methods of treating syphilis in children, Fel'd. i skush. 21 no.12:12-18 D '56. (MLRA 10:1) (SIPHILIS, CONCENTIAL, HEREDITARY AND INVANTILE)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232 TABRIKABT, G.L., kand.med.mauk (Moskva) Pneumonia in infants. Fel'd. i akush 22 no.9128-36 '57 (MIRA 11:10) (FWRUNOSIA)

FAERIKANT, G.L., kand.med.nauk (Moskva) Prévention and treatment of purulent skin diseases in children. Hed. (NIRA 11:4) sestra 17 no.3:13-19 Mr '58. (SKIN--DISEASES) (CHILDREN--CARE AND HYGIENE)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(

1111111

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-

CIA-RDP86-00513R00041232

- HANNERS CONTRACTOR

FABRIKANT, G.L., kand.med.nauk (Moscow)

Preventive inoculations for children. Fel'd i akush. 23 no.5:21-30 My '58 (MIRA 11:6) (VACCINATION) (CHILDREN-DISEASES)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(







"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232 PABRIKANT, G.L., kand.med.mauk (Moskva) Rhoumatic fever in children. Fol'd. i akush. 25 no.4:35-39 Ap '60. (MIRA 14:5) (RHEUMATIC FEVER)







CIA-RDP86-00513R00041232

FABRIKANT, G.L., kand.med.nauk (Moskva)

-

"The healthy and sick child" by A.I. Dobrokhotova and I.M. Ostrovskaia. Reviewed by G.L. Fabrikant. Fel'd. i akush. 27 no.4:60-64 Ap '62. (MIRA 15:6) (CHILDREN-DISEASES) (DOBROKHOTOVA; A.I.) (OSTROVSKAIA, I.M.)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(

and the second descent of the second s
ng ugu ning an ann shuannan na shu

TREEX IF

SHEYNKER, S.; FABRIKANT. L.

What construction of the Ul yanovsk Cement Plant teaches. Na stroi. (MIRA 16:2) Ros. 3 no.2:4-6 F 163.

1. Zamestitel'nachal'nika otdela stroitel'nykh materialov i sbornogo shelesobetona Gosstroya RSFSR (for Sheynker). 2. Upravlyayushchiy tresta TSemstroy Ul'yanovskogo soveta narodnogo khozyaystva (for Fabrikant).

(Ul'yanovsk-Cement plants)

ZOTINA, R.S.; KIREYEVA, A.Ya.; FABRIKANT, L.D.; STAVSKIY, A.T., red.; KAPRALOVA, A.A., tekhn. red. [Collection of problems in mathematical statistics and probability theory]Sbornik sadach po matematicheskoi statistike i teorii veroiatnostei. Moskva, Gosstatiadat, 1962. 183 p. (MIRA 16:2) (Mathematical statistics) (Probabilities)





CIA-RDP86-00513R00041232

"APPROVED FOR RELEASE: Thursday, July 27, 2000

170177 FABRIKANT, N. B. Sharlaya; Dir, Khar'kov Stomatol Inst, Prof and Face Hosp, N. M. Svet. P. V. Vlasenko; Chief, Khar'kov Republic Jaw USSR/Medicine effects of its use. Dir, Khar'kov Med Inst, R. I. cusses prepn of dried skin and bone tissue and of its use in cases of various diseases in ophasue therapy, implantation technique, and effects Describes method of preparing dried placents tis-"Sov Med" No 3, pp 20-22 "Investigations on the Biological Activity of Dried Tissues," Prof M. B. Fabrikant, Prof N. S. thalmol, urol, and dermatol practice. Inst, and Khar'kov Republic Jaw and Face Hosp USSR/Medicine - Tissue Therapy Kharchenko, Khar'kov Med Inst, Khar'kov Stomatol Tissue Therapy (Contd) Also dis-1761777 Mar 50 1761777 Mar 50 THE REAL PROPERTY AND ADDRESS OF THE REAL PROPERTY AND ADDRESS OF THE REAL PROPERTY AND ADDRESS OF THE REAL PROPERTY ADDRESS OF THE BARRIE BARRIE

*APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232
*FABRIKANT, N. Å.
Aerondinamika. Chast'I. Moskva, Costekhizdat, 1949. 624 p., diagrs.
Title tr.: Aerodynamics. Part I.
QA930.F2
S0: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

A complete and provide a second part of the second s	6786-3-978
· FABRIKANT, N.YA.	
1(2) φ γ phase I book exploitation sov/3265	
Moscow. Aviatsionnyy tekhnologicheskiy institut	
Nekotoryye voprosy aerodinamiki i dinamiki samoleta (Some Problems in Aerodynamics and Dynamics of Aircraft) Moscow, Oborongiz, 1959. 11 p. (Its: Trudy, vyp. 42) 2,100 copies printed.	
Additional Sponsoring Agency: RSFSR. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya.	
Ed.: (Title Page): S.I. Zonshayn, Doctor of Technical Sciences, Professor; Managing Ed.: A.S. Zaymovskaya, Engineer.; Ed. of Publishing House: S.I. Vinogradskaya. Tech. Ed.: V.P. Rozhin.	
PURPOSE: This collection of articles is intended for the engineering and technical personnel of design offices and scientific-research organizations. It may also be used by students of aeronautical vuzes, specializing in the field of aircraft construction.	
COVERAGE: This collection of articles contains some results of scientific re- search performed by the Aerodynamics and Design of Aircraft Department of MATI Card 1/6	
	

Some Problems in Aerodynamics (Cont.)

SOV/3265

(Moscow Aviation Technology Institute) during the period 1955 - 1957. The collection considers a number of problems in wing theory for three-dimensional flow and in the dynamics of aircraft, and also methods for research conducted at the initial stages of design and configuration of aircraft. A report by V.T. Dubasov presents a variational method for approximate determination of the velocity field for potential unsteady, compressible and incompressible air flow about bodies. S.I. Zonshayn considers the methods of research performed to determine rational dimensions of aircraft during the initial design stages. The problem is solved in a general formulation, but the obtained results are applied to particular problems, for instance, to the calculation of optimum wing loads. In a report by N.Ya. Fabrikant, the theorem regarding the lifting force of a wing, given by N.Ye. Zhukovskiy, is generalized for the case of a rotational threedimensional flow and a compressible medium. A formula is given for calculating force arising from the mutual interaction of two flows. The results obtained are used for calculating the effect of the accompanying jet on the lift coefficient of the wing and for calculating the load distribution along the span in the region bomering on the wing tip. A report by S.M. Matveyev deals with one of the important problems in aircraft dynamics - the loop - first investigated by N.Ye. Zhukovskiy. The problem is solved for the mathematically simplest case, namely a loop with uniform turning of the flight path. The kinematic and dynamic analysis Card 2/6

	(Cont.) 80V/326	5
Translational motion of	a circular cylinder	18
ArDitrary motion of an e	llintical orlindam	
Motion of the symmetrics Zhukovskiy) profile	1 Nikolay Yegorovich	19
7. Steady motion of a gride	And and the state of the	19
8. Examples	drical body in a compressible fluid	19 21
		23
Translational motion of large axis		-
9. Flow about a circumferen		23
10. Translational motion of	e thin when made a	26
	a curn wing profite	28
brikant, N.Ya. Generalizatio	to Investigations of Rational	32
1. Lift force in two-dimens:	ional rotational flow of an in-	61
		60
Compressions menil	Onel rotetional el an se	62
2. Lift force in two-dimensi	lonal rotational flow of a	
Compressions menil	lonal rotational flow of a	62 63
2. Lift force in two-dimensi	lonal rotational flow of a	
2. Lift force in two-dimensi compressible medium	lonal rotational flow of a	
2. Lift force in two-dimensi compressible medium	lonal rotational flow of a	
2. Lift force in two-dimensi compressible medium	lonal rotational flow of a	
2. Lift force in two-dimensi compressible medium	lonal rotational flow of a	

Some Problems in Aerodynamics (Cont.) SO	N/3265
 Calculation of loop trajectories Vertical velocity component in the loop On the angular velocity of an aircraft in a loop Transition from the variable O to the variable t. Baro characteristics of a loop 	96 97 100 gram 102
Tupolev, A.A. Special Features of the Aerodynamic Configurat of Near-Sonic Aircraft	ion 3.04
Conclusions	105
AVAILABLE: Library of Congress	
Card 6/6	AC/gmp 4-1-60

NEKRASOV, Boris Borisovich; BURAGO, G.F., prof., doktor tekhn.nauk; KOSOUROV, K.F., prof., retsenzent; <u>PABRIKANT, M. Te.</u>, retsenzent; RUINEV, S.S., retsensent; SHIL'ISEV, A.N., cod.; STREL'NIKOVA, M.A., tekhn.red. [Hydraulics] Oidravlika. Moskva, Voen.izd-vo M.-va obor.SSSR, 1960. 260 p. (MIRA 13:5) (Hydraulics)

CIA-RDP86-00513R00041232

PIRUMOV, A.I., kand. tekhm. nauk<u>: FAERIKANT, N.Ye., prof.</u>, red.; PORTHOVA, Z.S., red. izd-va; BOROVNEV, N.K., tekhn. red.
[Aerodynamic principles of inertia separation] Aerodinamicheskie osnovy inertsionnoi separatsii. Pod red. N.IA.Fabrikanta. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 123 p. (MIRA 15:1) (Dust--Removal) (Separators (Machines))

"APPROVED FOR RELEASE: Thursday, July 27, 2000

1000

AND CONTRACTOR OF CASE

- FARES IN THE TOTAL

. .

FABRIKANT, Nikolay Yakovlevich; DUBASOV, V.T., red.

[Aerodynamics; general courte] Aerodinamika; obshchii kurs. Moskva, Nauka, 1964. E14 p. (MIRA 17:10)

L 36180-66 EWP(m)/EWT(1) ACC NR: AP6011782 SOURCE CODE: UR/0147/66/000/001/0028/0037 AUTHOR: Fabrikant, N. Ya. ORG: none // TITLE: Velocity distribution in a turbulent flow close to a solid surface SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 1, 1966, 28-37 TOPIC TAGS: flow velocity, turbulent flow, surface property ABSTRACT: The author considers the relationship between average velocities and tan- gential stresses as the basis for calculating a velocity field in a turbulent flow. Motion transfer theory is utilized as the point of departure for this study. In ac- cordance with this theory, the averaged tangential stress resulting from turbulent mixing and involving a case of flow parallel to the x-axis is determined by a standard equation. The distance of intermixing can be determined both experimentally and theo- retically. Experimentally it is determined by measuring the velocities and tangential stresses in turbulent flow. Theoretically, the distance is determined on the basis of an accepted turbulent flow model. The study is in agreement with the data in the lit- erature on the vortex nature of turbulent mixing. This phenomenon is a direct result of the rotation of isolated fluid bodies under the effect of a transverse force. The transverse motion of the fluid bodies and their rotation is retarded by the ambient <u>Cerd 1/2</u> <u>UDC: 532.517.4</u>	_		3924
AUTHOR: <u>Fabrikant, N. Ya.</u> ORG: none <i>H</i> TITLE: Velocity distribution in a <u>turbulent flow</u> close to a solid surface SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 1, 1966, 28-37 TOPIC TAGS: flow velocity, turbulent flow, surface property ABSTRACT: The author considers the relationship between average velocities and tan- gential stresses as the basis for calculating a velocity field in a turbulent flow. Motion transfer theory is utilized as the point of departure for this study. In ac- cordance with this theory, the averaged tangential stress resulting from turbulent mixing and involving a case of flow parallel to the x-axis is determined by a standard equation. The distance of intermixing can be determined both experimentally and theo- retically. Experimentally it is determined by measuring the velocities and tangential stresses in turbulent flow. Theoretically, the distance is determined on the basis of an accepted turbulent flow model. The study is in agreement with the data in the lit- erature on the vortex nature of turbulent mixing. This phenomenon is a direct result of the rotation of isolated fluid bodies under the effect of a transverse force. The transverse motion of the fluid bodies and their rotation is retarded by the ambient	L. Street		
ORG: none TITLE: Velocity distribution in a <u>turbulent flow</u> close to a solid surface SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 1, 1966, 28-37 TOPIC TAGS: flow velocity, turbulent flow, surface property ABSTRACT: The author considers the relationship between average velocities and tan- gential stresses as the basis for calculating a velocity field in a turbulent flow. Motion transfer theory is utilized as the point of departure for this study. In ac- cordance with this theory, the averaged tangential stress resulting from turbulent mixing and involving a case of flow parallel to the x-axis is determined by a standard equation. The distance of intermixing can be determined both experimentally and theo- retically. Experimentally it is determined by measuring the velocities and tangential stresses in turbulent flow. Theoretically, the distance is determined on the basis of an accepted turbulent flow model. The study is in agreement with the data in the lit- erature on the vortex nature of turbulent mixing. This phenomenon is a direct result of the rotation of isolated fluid bodies under the effect of a transverse force. The transverse motion of the fluid bodies and their rotation is retarded by the ambient		ACC NR: AP6011782 SOURCE CODE: UR/0147/66/000/001/0028/0037	
TITLE: Velocity distribution in a <u>turbulent flow</u> close to a solid surface SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 1, 1966, 28-37 TOPIC TAGS: flow velocity, turbulent flow, surface property ABSTRACT: The author considers the relationship between average velocities and tan- gential stresses as the basis for calculating a velocity field in a turbulent flow. Motion transfer theory is utilized as the point of departure for this study. In ac- cordance with this theory, the averaged tangential stress resulting from turbulent mixing and involving a case of flow parallel to the x-axis is determined by a standard equation. The distance of intermixing can be determined both experimentally and theo- retically. Experimentally it is determined by measuring the velocities and tangential stresses in turbulent flow. Theoretically, the distance is determined on the basis of an accepted turbulent flow model. The study is in agreement with the data in the lit- erature on the vortex nature of turbulent mixing. This phenomenon is a direct result of the rotation of isolated fluid bodies under the effect of a transverse force. The transverse motion of the fluid bodies and their rotation is retarded by the ambient	,	AUTHOR: Fabrikant, N. Ya.	
TITLE: Velocity distribution in a <u>turbulent flow</u> close to a solid surface SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 1, 1966, 28-37 TOPIC TAGS: flow velocity, turbulent flow, surface property ABSTRACT: The author considers the relationship between average velocities and tan- gential stresses as the basis for calculating a velocity field in a turbulent flow. Motion transfer theory is utilized as the point of departure for this study. In ac- cordance with this theory, the averaged tangential stress resulting from turbulent mixing and involving a case of flow parallel to the x-axis is determined by a standard equation. The distance of intermixing can be determined both experimentally and theo- retically. Experimentally it is determined by measuring the velocities and tangential stresses in turbulent flow. Theoretically, the distance is determined on the basis of an accepted turbulent flow model. The study is in agreement with the data in the lit- erature on the vortex nature of turbulent mixing. This phenomenon is a direct result of the rotation of isolated fluid bodies under the effect of a transverse force. The transverse motion of the fluid bodies and their rotation is retarded by the ambient		0PC: 1000	
SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 1, 1966, 28-37 TOPIC TAGS: flow velocity, turbulent flow, surface property ABSTRACT: The author considers the relationship between average velocities and tan- gential stresses as the basis for calculating a velocity field in a turbulent flow. Motion transfer theory is utilized as the point of departure for this study. In ac- cordance with this theory, the averaged tangential stress resulting from turbulent mixing and involving a case of flow parallel to the x-axis is determined by a standard equation. The distance of intermixing can be determined both experimentally and theo- retically. Experimentally it is determined by measuring the velocities and tangential stresses in turbulent flow. Theoretically, the distance is determined on the basis of an accepted turbulent flow model. The study is in agreement with the data in the lit- erature on the vortex nature of turbulent mixing. This phenomenon is a direct result of the rotation of isolated fluid bodies under the effect of a transverse force. The transverse motion of the fluid bodies and their rotation is retarded by the ambient			
TOPIC TAGS: flow velocity, turbulent flow, surface property ABSTRACT: The author considers the relationship between average velocities and tan- gential stresses as the basis for calculating a velocity field in a turbulent flow. Motion transfer theory is utilized as the point of departure for this study. In ac- cordance with this theory, the averaged tangential stress resulting from turbulent mixing and involving a case of flow parallel to the x-axis is determined by a standard equation. The distance of intermixing can be determined both experimentally and theo- retically. Experimentally it is determined by measuring the velocities and tangential stresses in turbulent flow. Theoretically, the distance is determined on the basis of an accepted turbulent flow model. The study is in agreement with the data in the lit- erature on the vortex nature of turbulent mixing. This phenomenon is a direct result of the rotation of isolated fluid bodies under the effect of a transverse force. The transverse motion of the fluid bodies and their rotation is retarded by the ambient		TITLE: Velocity distribution in a turbulent flow close to a solid surface	
ABSTRACT: The author considers the relationship between average velocities and tan- gential stresses as the basis for calculating a velocity field in a turbulent flow. Motion transfer theory is utilized as the point of departure for this study. In ac- cordance with this theory, the averaged tangential stress resulting from turbulent mixing and involving a case of flow parallel to the x-axis is determined by a standard equation. The distance of intermixing can be determined both experimentally and theo- retically. Experimentally it is determined by measuring the velocities and tangential stresses in turbulent flow. Theoretically, the distance is determined on the basis of an accepted turbulent flow model. The study is in agreement with the data in the lit- erature on the vortex nature of turbulent mixing. This phenomenon is a direct result of the rotation of isolated fluid bodies under the effect of a transverse force. The transverse motion of the fluid bodies and their rotation is retarded by the ambient		SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 1, 1966, 28-37	
gential stresses as the basis for calculating a velocity field in a turbulent flow. Motion transfer theory is utilized as the point of departure for this study. In ac- cordance with this theory, the averaged tangential stress resulting from turbulent mixing and involving a case of flow parallel to the x-axis is determined by a standard equation. The distance of intermixing can be determined both experimentally and theo- retically. Experimentally it is determined by measuring the velocities and tangential stresses in turbulent flow. Theoretically, the distance is determined on the basis of an accepted turbulent flow model. The study is in agreement with the data in the lit- erature on the vortex nature of turbulent mixing. This phenomenon is a direct result of the rotation of isolated fluid bodies under the effect of a transverse force. The transverse motion of the fluid bodies and their rotation is retarded by the ambient		TOPIC TAGS: flow velocity, turbulent flow, surface property	
Card 1/2 UDC: 532,517.4		gential stresses as the basis for calculating a velocity field in a turbulent flow. Motion transfer theory is utilized as the point of departure for this study. In ac- cordance with this theory, the averaged tangential stress resulting from turbulent mixing and involving a case of flow parallel to the x-axis is determined by a standard equation. The distance of intermixing can be determined both experimentally and theo- retically. Experimentally it is determined by measuring the velocities and tangential stresses in turbulent flow. Theoretically, the distance is determined on the basis of an accepted turbulent flow model. The study is in agreement with the data in the lit- erature on the vortex nature of turbulent mixing. This phenomenon is a direct result of the rotation of isolated fluid bodies under the effect of a transverse force. The	
		Card 1/2 UDC: 532,517,4	
	Ş		

O

- Hora Statistics (Statistics

L 38180-66

ACC NR: AP6011782

fluid. It is because of this phenomenon that the distance traveled by these bodies is limited in a direction perpendicular to the flow. The calculated distance of intermixing based on this method is determined for the case when v_x is independent of x. The distance of intermixing obtained by the above method is very close to the experimentally determined distance. This is not true of the distance calculated according to the standard formulas in the literature. Turbulent flow over an infinite surface is considered. At a distance from the surface where the effect of viscosity is imperceptible, the average velocity is assumed to be distributed according to a parabolic law. This law does not satisfy the boundary conditions at the wall. The article also deals with an approximate method of computing velocities in the general case of turbulent flow in the vicinity of a solid surface. Orig. art. has: 6 figures, 17 formulas. SUB CODE: 20/ SUBM DATE: 26Jul65/ ORIG REF: 001/ OTH REF: 005

- AND INCOMENDATION OF A

 T-ABRIKANT, S.B. USSR/General Problems of Pathology - Shock. T-3 Abs Jour : Ref Zhur - Biol., No 1, 1958, 3028 Author : Fabrikant, S.B. Inst : - Title : On the Significance of Individual Reactivity of the Body in the Formation of Thermal Shock. Orig Pub : Tr. Kirg. gos. med. in-ta, 1956, 8, 155-163 Abstract : A burn of 33-35% of the surface area was caused by a stream of scalding water. The course of the shock accompanying skin involvements of such intensity was characterized by individual variations in arterial pressure, hemoconcentration and survival. Anesthesia (2 ml/kg of a 50% solution of urethan) shortened the original blood pressure drop, prevented hemoconcentration and postponed the animals' 	的行动的学校的任何的学校
 Abs Jour : Ref Zhur - Biol., No 1, 1958, 3028 Author : Fabrikant, S.B. Inst : - Title : On the Significance of Individual Reactivity of the Body in the Formation of Thermal Shock. Orig Pub : Tr. Kirg. gos. med. in-ta, 1956, 8, 155-163 Abstract : A burn of 33-35% of the surface area was caused by a stream of scalding water. The course of the shock accom- panying skin involvements of such intensity was characteri- zed by individual variations in arterial pressure, hemocon- centration and survival. Anesthesia (2 ml/kg of a 50% solu- tion of urethan) shortened the original blood pressure drop, prevented hemoconcentration and postported the surface of solution. 	
 Author : Fabrikant, S.B. Inst : - Title : On the Significance of Individual Reactivity of the Body in the Formation of Thermal Shock. Orig Pub : Tr. Kirg. gos. med. in-ta, 1956, 8, 155-163 Abstract : A burn of 33-35% of the surface area was caused by a stream of scalding water. The course of the shock accom- panying skin involvements of such intensity was characteri- zed by individual variations in arterial pressure, hemocon- centration and survival. Anesthesia (2 ml/kg of a 50% solu- tion of urethan) shortened the original blood pressure drop, prevented hemoconcentration and matmoned the artical. 	
 Inst : - Title : On the Significance of Individual Reactivity of the Body in the Formation of Thermal Shock. Orig Pub : Tr. Kirg. gos. med. in-ta, 1956, 8, 155-163 Abstract : A burn of 33-35% of the surface area was caused by a stream of scalding water. The course of the shock accom- panying skin involvements of such intensity was characteri- zed by individual variations in arterial pressure, hemocon- centration and survival. Anesthesia (2 ml/kg of a 50% solu- tion of urethan) shortened the original blood pressure drop, prevented hemoconcentration and postponed the anisolution 	
 A big of the big fille of Individual Reactivity of the Body in the Formation of Thermal Shock. Orig Pub : Tr. Kirg. gos. med. in-ta, 1956, 8, 155-163 Abstract : A burn of 33-35% of the surface area was caused by a stream of scalding water. The course of the shock accom- panying skin involvements of such intensity was characteri- zed by individual variations in arterial pressure, hemocon- centration and survival. Anesthesia (2 ml/kg of a 50% solu- tion of urethan) shortened the original blood pressure drop, prevented hemoconcentration and postponed the arterial of the shock accom- panying shortened the original blood pressure drop, 	
Abstract : A burn of 33-35% of the surface area was caused by a stream of scalding water. The course of the shock accom- panying skin involvements of such intensity was characteri- zed by individual variations in arterial pressure, hemocon- centration and survival. Anesthesia (2 ml/kg of a 50% solu- tion of urethan) shortened the original blood pressure drop, prevented hemoconcentration and postponed the prisely	
stream of scalding water. The course of the shock accom- panying skin involvements of such intensity was characteri- zed by individual variations in arterial pressure, hemocon- centration and survival. Anesthesia (2 ml/kg of a 50% solu- tion of urethan) shortened the original blood pressure drop, prevented hemoconcentration and postponed the spisely	
Card 1/1	

CIA-RDP86-00513R00041232

FABRIKANT, S.1., inzh. (Novopolotsk)

in a subscription of the second s

Increasing the operational reliability of an automatic switch. Energetik 13 no.8:20-22 Ag '65. (MERA 18:9)

CIA-RDP86-00513R00041232



APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041232(



CIA-RDP86-00513R00041232

FAERIKANT, T. L.

Fabrikant, T. L.

"The development of a process for obtaining certain copolymers of vinyl chloride and acrylonitrie." Min Higher Education USSR. Moscow Inst of Chemical Machine Building. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Sciences).

Knizhnaya letopis' No. 21, 1956. Moscow.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232(

Fabaifant, T.1 KLINOV, I.Ya., prof.; FABRIKANT, T.L., nauchnyy sotrudnik; MYL'NIKOV, V.P., inzhener. Use of carbon and graphite materials in the woodpulp and peper industry. Bum.prom.32 no.8:6-8 Ag '57. (MIRA 10:12) 1. Monkovskiy institut khimicheskogo mashinostroyeniya (for Klinov, Fabrikant). (Graphite) (Woodpulp industry) (Carbon)

1644的高速的增加

第十日時期時代的他時間。1月1月1日(這個時間)

CIA-RDP86-00513R00041232

5(1,3)

PHASE I BOOK EXPLOTTATION SOV/3170

Fabrikant, Tamara L'vovna, and Vol'f Leonovich Vol'tman

Asbovinil i yego primeneniye v khimicheskoy promyshlennosti (Asbovinyl and Its Utilization in the Chemical Industry) Moscow, Goskhimizdat, 1958.
78 p. Errata slip inserted. (Series: Korroziya v khimicheskikh proizvodstvakh i sposoby zashchity, vyp. 11) 3,000 copies printed

Ed.: I.Ya. Klinov; Editorial Commission: N.A. Baklanov, V.Ye. Volodin, V.S. Kiselev (Chairman), I.Ya. Klinov, V.I. Kruchinin (Secretary), G.V. Sagalayev (Deputy Chairman), and P.G. Udyma.

FURPOSE: This booklet is intended for workers specializing in corrosion prevention and for design engineers of chemical and related industries

COVERAGE: This booklet deals with the prevention of corrosion and anticorrosive materials. It reviews physicochemical and mechanical properties of asbovinyl which is an anticorrosive mixture, the ussic components of which are ethynol (divinyl acetylene), lacquer and asbestos. Methods for preparation of the

Card 1/5

CIA-RDP86-00513R00041232

Asbovinyl and Its Utilization (Cont.)

SOV/3170

asbovinyl mixture and the utilization of this mixture as a protective material against corrosion are briefly outlined and 6afoty techniques during production are reviewed. Chemical resistance of different types of asbovinyl to corrosive agents is discussed. The experience of the industry in using asbovinyl mixture for the lining of various containers, filters, gas conduits, pipes, etc., is outlined. The procedure for using this mixture as a corrosion resistant material is explained as well as methods of atoring, transporting, packing, etc. Studies of A.L. Klenbanskiy, I.M. Dolgopol'skiy and I.P. Shabodalov proved that asbovinyl mixture can be used successfully for protecting equipment of the chemical industry against corrosion. It is now widely used in Soviet industry. There are 16 references: 14 Soviet and 2 English. TABLE OF CONTENTS:

Card 2/5		
II. Basic Materials		9
I. General Information		7
Foreword		5
From the Editor		2

sbovinyl and Its Utilization (Cont.) SOV	/3170
Ethynol lacquer	9
Asbestos	13
III. Production Process for the Preparation of Asbqvinyl Mixto	10 IO
rreparation and dosing of ray material	-
Mixing	19
Packing	19 20
Storing	20
Production control	00
Consumption of materials used im preparing the initial asboy	vinyl
mixture	20
Technical specifications for the asbovinyl mixture	21
IV. Properties of Asbovinyl	
Physical and mechanical properties	22
Chemical resistance	22
	26
. Use of Asbovinyl as an Anticorrosion Material	34
ard 3/5	
an a	A REAL PROPERTY AND A REAL

THE REPORT OF THE REPORT OF

Asbovinyl and lts Utilization (Cont.) SOV/3170	
Use of asbovinyl as fettling Use of asbovinyl as dyeing lacquer Use of asbovinyl as a base coating	34 38 38
VI. Experience of the Industry in Using Asbovinly as a Protective Coating Lining of bubbling towers used in the production of sulfuric acid Lining of acid tanks Lining of fermentation drums Lining of falkali neutralizers Lining of filters made of reinforced concrete Lining of vane wheels of exhaust fans and small turbines Lining of gas conduits Lining of pipes Lining of pipes Lining of vooden towers and their metallic bands Lining of electrofilters (selenium precipitation chambers A base coating	42 43 44 45 46 47 49 50
Asbovinyl cement /II. Asbovinyl Section of the Corresion Prevention Department ard 4/5	51 54 55

 Appendix 1. Instructions for Using Asbovinyl Mixtures as Fettling Appendix 2. Excerpts From MIKhM Regulations Concerning the Procedure of Combined Coating of Metal Surface With Polyisobutylene and Asbovinyl Mixture Appendix 3. Excerpts From VTU MKhP 3109-53 Specifications for the Asbovinyl Lining Mixture Bibliography 	61
Appendix 3. Excerpts From VTU MKhP 3109-53 Specifications for the Asbovinyl Lining Mixture 74 Bibliography 77	62
Bibliography 74	67
77	74
	77
ard 5/5 2-17-60	



KLINOV, I.Ya.; KUTSENOK, B.I.; FARRIKANT, T.L.; GIL'MAN, TS.I. Chemically stable mastics based on a modified asbestos vinyl. Plast.massy no.2:44-50 '61. (MIRA 14:2) (Plastics) (Protective coatings)