"APPROVED FOR RELEASE: 06/13/2000

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KAZANSKAYA, T. B., GALAMINA, L. A., POLTAVA, I. G., AGATOV, P. A. (USSR)

"Participation of Certain Chemical Compounds in Streptom cin Biosynthesis."

Report presented at the 5th International Biochemistry Congress, Mescow, 10-16 August 1961

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APPROVED FOR RELEASE: 06/13/2000

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CIA-RDP86-00513R000721310019-7"

POLTAVA, I.G.; KAZANSKAYA, T.B.

Morphology and cytology of Actinomyces streptomycini in relation to the composition of culture media. Mikrobiologiia 30 no.1:72--75 Ja-F '61. (MIRA 14:5)

1. Institut mikrobiologii AN SSSR. (ANTINOMYCES)

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KAZANSKAYA, T.B.; ORLOVA, I.G.

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Effect of organic acids of the aliphatic series $C_2 - C_6$ on the growth of Actinomyces streptomycini and the formation of streptomycin by it. Dokl.AN SSSR 145 no.5:1158-1159 '62. (MIRA 15:8)

1. Predstavleno akademikom V.N.Shaposhnikovym. (STREPTOMICIN) (ACIDS, FATTY) (ACTINOMYCES)

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SHAPOSHNIKOV, V.N.; KAZANSKAYA, T.B.; ORLOVA, I.G.

Effect of dicarboxylic acids and some other compounds on the biosynthesis of streptomycin. Inv.AN SSSR.Ser.biol. no.6:813-824 N-D '62. (MIRA 16:1)

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1. Institut mikrobiologii AN SSSR. (STREPIOMYCIN)

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SHAPOSHNIKOV, V.N., akademik; KAZANSKAYA, T.B.; ORLOVA, I.G.

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Characteristics of Aerobacter cloacae No.28 as related to the accumulatio of valine in the medium. Dokl. AN SSSR 159 no.6: 1408-1410 D '64 (MIRA 18:1)

so a service e

1. Institut mikrobiologii AN SSSR.

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IMSHENETSKIY, A.A.; RAUTENSHITEYN, Ya.I.; KAMANSKAYA, T.B.; BUKHTEREVA, M.N.

Pavel Andreevich Agatov, 1905- ; on his 60th birthday. Mikrobiologiia 34 Ho.41749 JI-Ag '65. (MIRA 18:10)

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With 推稳更

CIA-RDP86-00513R000721310019-7"

PUSTOVALOV, V.V.; Prinimala uchastiye KAZANSKAYA, T.G.

Wigh temperature (up to 2,400°) determination in vacuum of the hert conductivity of refractory materials. Sbor.nauch.trud. (MIRA 15:12) (Refractory materials-Thermal properties)

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AUTHORS:	Tishchenko, V. V., Kazanskaya, VF. SCV/79-28-6-59/66
TITLE:	Transformation of Δ^3 -p-Menthene on the "Gumbrine" Clay (Prevrashcheniye Δ^3 -p-Mentena na gumbrine)
PERIODICAL:	Zhurnal obshchey khimii, 1958, Vol. 28, Nr 8, pp. 2277 - 2279 (USSR)
ABSTRACT: Card 1/3	Investigations concerning the isomerization of the cyclic hydrocarbons with the naturally occurring aluminium silicate catalyst are closely allied to questions of the origin and transformation of earth oil. The isomerization of the aromatic and several earth oil hydrocarbons have been well investigated, but the cyclic compounds with one or two bonds in the nucleus have been investigated in this respect to only a slight extent. It is the purpose of this paper to supply some much-needed information in this area. Reports on the isomerization of mentheme in the presence of a natural aluminium silicate catalyst do not appear in the literature. N.D.Zelinskiy and G.S.Pavlov (Ref 1) began working on this problem by passing mentheme vapor at 175 - 180° into a stream of carbonic acid under palladium

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- C. A.

Transformation of 2^3 -p-Menthene on the "Gumbrine" Clay SOV/79-28-8-59/66

asbestos and thus producing menthane and cymene. More importantly in this direction was the research on cyclohexene, which is a derivative of menthene (Refs 2-5). The experiments on the isomerization of cyclohexene with an aluminium silicate catalyst were carried out at 320-450°, although the isostasis theory claims that the maximum possible temperature to which the earth oil could have been exposed in being formed was not over 250°. For this reason the iso-merization of the Δ^3 -p-menthene was carried out at 170-230° in the work reported in this paper. "Gumbrine" clay was used as the catalyst. In doing so it was shown that hydrogen was dispersed more around the ring, and that the ring contracted. The result of the isomerization was the formation of a mixture of hydrocarbons, from which 1,2-dimethyl-3-isopropylcyclopentane and p-menthane were separated. In the isomerization polymers formed (34-35%) which were dimers of terpinene. Details appear in the experimental section. There are 8 references, 7 of which are Soviet.

Card 2/3

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CIA-RDP86-00513R000721310019-7"

Transformation of $\Delta^3_{-p-Menthene}$ on the "Gumbrine"Clay SOV/79-28-8-59/66

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: June 22, 1957

Card 3/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310019-7"

87432 S/191/60/000/010/004/017 B004/B060 Skrylova, L. V., Molotkov, R. V., Gonor, E. S., Kazanskaya, V. F., Gvirts, E. M.

AUTHORS:

158110

TITLE: Polyglycidyl Cyanurates as Heat-resistant Epcxy Resins

PERIODICAL: Plasticheskiye massy, 1960, No. 10, pp. 13-14

TEXT: The authors based on the U.S. Patent No. 2,809,942 to synthesize an epoxy resin from cyanuric acid and epichloro hydrin (\exists u (ETs-Resin)). [Abstracter's Note: The synthesis is not described]. Number of epoxy groups (29-32%), content of inorganically bound chlorine (0.04-0.06%), and content of organically bound ohlorine (5-6%) were determined. ETs resin was polymerized either with maleic anhydride or phthalic anhydride. Its thermomechanical properties were examined and compared with those of \exists -G(ED-6) resin (a dian resin). A better heat resistance (up to 170-175°C) and a smaller dielectricity loss were established at high temperatures, as compared with ED-6. There are 2 figures and 3 non-Soviet references.

總議員 基礎 [1]

Card 1/1

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AUTHORS: T	eirkin, M. 2	.; Molotkov,	R. V.; Kazana	kaya, V. F.	•	60.	•
TITIE: Tet curing agen	rahydrophths t/	lic and methy	ltotrahydroph	thallo anhy	drides as er	OLY resin	•
SOURCE: F1	asticheskiye	massy, no. 7	, 1963, 17-20		/9		
TOPIC TAGS: epoxy resin,	tetrahydro maleic anh	phthalic anhy drids, plast	iride, methyl lo curing agen	tetrahydrop) ±	thalic anhy	dride,	• • • •
curing agent <u>Cis-1,2,3,6-</u> thalic anhyd the compound compounds cur anhydride pyr also has an r	S Ware Synt) tetrahydrop) ride. The r S cured with red with mal sesses bett	esized and te thalic anhydr hysico-chemic the above an sic and phtha properties	toxic and less aleic and phts ested. The sy ids and Cis-4 al properties bydrides are lic anhydride than tetrahy phthalic anhy than maleic ar	nthesized c methyl-a,2 and dielec close to the s. Methylte drophthalic	des, new ty uring agent: ,3,6-tetrahy tric properties properties trahydrcpht anhydride.	pes of s are ydroph- tias of o of the halic It	· · · · · · · · · · · · · · · · · · ·
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vil while	1.9. \pm 0.23 and 0.91 \pm 0.25, respectively. The specific activity (0) of the second from the copelymetrication with 10 was 1.3. polarity (c) 0. Le for VHD with MAC Q was 1.80 and c was 0.04. On the basis of the specific activity of WHD is of the specific activity of WHD is of the specific activity of WHD is of the specific activity of the	}£ ,0€,
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ORG: Plasti (Kafedra cod TITIE: <u>Copo</u> SOURCE: IVU TOPIC TAGS: ABSTRACT: V aqueous solut were purified degree of cor was obtained were calculat	zanskaya, V. F.; Klimova, O. M.; Tikhomiro ics Nechnology Department, Loningrad Techn Annologii plasticheskikh mass, Loningradsk olymerization of vinylene carbonate with a UZ. Khimiya i khimicheskaya tekhnologiya, acrylonitrile, carbonate, copolymerizati Vinylene carbonate (VC) was copolymerized utions at 20°C without adding any special ed by reprecipitation from a dimethyl sulf	clogical Institute im. Lensovet iy tekhnologicheskiy institut) crylonitrile in aqueous solutions v. 9, no. 2, 1966, 314-316 on with acrylonitrile (AN) in 8%
TITLE: <u>Copo</u> SOURCE: IVU TOPIC TAGS: ABSTRACT: V aqueous solut were purified degree of cor was obtained were calculat	UZ. Khimiya i khimichoskaya tekhnologiya, acrylonitrile, carbonate, copolymerizati Vinylene carbonate (VC) was copolymerizad utions at 20°C without adding any special ed by reprecipitation from a dimethyl sulf	iy tekhnologicheskiy institut) crylonitrile in aqueous solution v. 9, no. 2, 1966, 314-316 on with acrylonitrile (AN) in 8%
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ABSTRACT: V aqucous solut were purified degree of cor was obtained were calculat	Vinylene carbonate (VC) was copolymerized utions at 20°C without adding any special bed by reprecipitation from a dimethyl sulf	with acrylonitrile (AN) in 8%
ABSTRACT: V aqucous solut were purified degree of cor was obtained were calculat	Vinylene carbonate (VC) was copolymerized utions at 20°C without adding any special bed by reprecipitation from a dimethyl sulf	with acrylonitrile (AN) in 8%
$r_2 = 3.280\pm0.$ $r_2 = -0.41.$ 1 calculated.	A from ultimate analysis. The relative ac ated from the dependence of the copolymer (lal VC - AN mixture, and found to be: for 0.117. The specific activity Q for VC was The intramolecular distribution of monomer The probability of finding two consecutiv) ratio of AN to VC in the initial mixture;	axide - acetone mixture, the and the copolymer composition wivity constants of VC and AN composition on the composition VC, $r_1 = 0.086\pm0.051$; for AN, 0.043, and the polarity factor with in the copolymers was
Card 1/2	UDC: 678.74	4-4-134-532

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The VC-AN	consisting of la copolymers are si polyacrylonitril	milar in p	roperties (solubi	lity, capa	city to for	mits. m films or
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KAZANSKAYA, Ye.A.

Patents in knit goods manufacture (from "Wirkerei-und Strickerei-Technik," no.6, June 1960). Tekst.prom. 21 no.3:79 Mr '61. (MIRA 14:3) (Germany,East-Knitting machines-Patents)

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KAZANSKAYA, YO.A.

國際國際國際管理。國際國際管理管理國家政策並且的保護者的政策的基本。

Natural conditions and agricultural utilization of Chilik District, Alma-Ata Province. Vop.geog.Kaz.no.2:166-194 '57. (MIRA 10:7) (Chilik District--Mconomic geography)



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CIA-RDP86-00513R000721310019-7

KAZANSKAYA, Ye.A.

Natural conditions and agricultural utilization of Dzhambul District in Alma-Ata Province. Trudy Sekt.guog.AN Kazakh.SSR no.3:114-137 '59. (NIRA 12:7) (Dzhambul District (Alma-Ata Province)--Agriculture)

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KAZANSKAYA, Ye.A.

Matural conditions and agricultural development of the Enbekshi-Kazakhskiy District of Alma-Ata Province. Trudy Sekt.geog.All Kazakh.SSR no.4:73-96 '59. (MIRA 13:4) (Enbekshi-Kazakhskiy District--Physical geography)

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KAZANSKAYA, Ye.A.

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Lake Beloye of Kokchetav Province. Trudy Sekt.geog. AN Kazakh. SSR no.5:152-164 '59. (MIRA 13:4) Kazakh. SSR no.5:152-164 '59. (MIRA 13:4) (Beloye, Lake (Kokchetav Province)--Physical geography)

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KAZANSKAYA, YO.A. -----

Natural conditions and the agricultural development of Ili District, Alma-Ata Province. Trudy Sekt.geog.AN Kazakh. S.S.R. no.6:34-64 '60. (MIRA 13:7 (Ili District-Physical geography) (MIRA 13:7) (Ili District-Agriculture)

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- IZANSKAYA, Ye.A.

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Basurman and Ashchikol' lakes in Kokchetav Province. Trudy Otd. geog. AN Kazakh. SSR no.7:209-217 60. (HIRA 13:12) (Kokchetav Province-Lakos)



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KAZANSKAYA, YO.A.; KANTSELYARISTOV, P.S.

Natural conditions and the agricultural development of Kaskelen District, Alma-Ata Province. Trudy otd. geog. AN Kazakh. SSR no.9:63-84 '62. (MIRA 15:6)

(Kaskelen District--Physical geography) (Kaskelen District--Agricultural geography)

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CHIGARKIN, A.V.; TRIFONOVA, T.M.; SPIRNOVA, R.Ya.; KAZANSKAYA, Ye.A.; VILESOVA, L.A., MUKHAMETZHANOV, S., kand. geologominer. nauk; GLADYSHEVA, Ye.N., kand. geogr. nauk; BAZARBAYEV, K.; KUZNETSOVA, Z.V.; AEDRAKHMANOV, S.; NAZARENKO, I.M., kand. geogr. nauk; YESAULENKO, P.I., kand. sel'khoz. nauk; LAVROVA, I.V., kand. ekonom. nauk; PAL'GOV/ N.N., akademik, red.; CHEZGANOV, L., red.; NAGIBIN, P., tekhn. red.

> [The Virgin Territory; brief studies on nature, population and economy]TSelinnyi krai; kratkie ocherki o prirode, naselenii i khoziaistve. Alma-Ata, Kazakhskoe gos. izd-vo, 1962. 188 p. (MIRA 15:9)

1. Otdel geografii Akademii nauk Kazakhskoy SSR (for all except Chezganov, Nagibin). 2. Akademiya nauk Kazakhskoy SSR (for Pal'gov).

(Virgin Territory---Economic geography)

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KAZANDENYA, IC.B. Pebble spits of Lake Alakol'. Trudy Otd. geog. AN Kazakh. SSR no.11:168-174 '65. Lesser Araltobe Island in Lake Sasykkol'. Ibid.:175-178 (MIRA 18:8) THE REPORT OF 200 COLUMN STREET . 他们们的这些问题

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	ACC- NR: A16025375 SOURCE CODE: UR/0000/66/000/0081/0	004
	AUTHOR: Luk'yanova, L. D. and Kazanskaya, Ye. P.	30 P+1
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	TITLE: Problem of the functional significance of changes in corebral bioeles activity and its corebral oxidative capacity during vibration	ctric
	SOURCE: AN SSSR. Institut biologicheskoy fiziki. Vliyaniye faktorov kosmiche	, cq ogovae
	polota na funktuli tsontral'noy norvnoy sistemy (Effect of space flight facto functions of the contral nervous system). Noscow, lzd-vo nauka, 1966, 81-94	oxa on
ı	TOPIC TAGS: bioelectric phenomonon, cerebrum, biologic metabolism, biologic vibration effect, rat, EEG, oxygen consumption, human sense	
	ABSTRACT: The oxygen metabolism of the brain as a function of its	
	bioelectricity was studied in rats exposed to multiple vibration	
	(0.4 mm, 70 cps, exposure duration 15 min). The method of	
	polarographically determining oxygen tension in the brain was the same as used in previous studies (Luk'yanova, 1964). EEG's	-
	were taken and the tissue diffusion current was measured using	• .
•	bipolar platinum electrodes from the sensorimotor, visual,	
	audio-cortical. and caudate nucleus regions.	
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L-07473-67 ACC NR: AT6025375 О characterized by general excitation which affects various cere-bral areas, and the other phase in characterized by concentration of an excitation process in the sensorimotor and visual . cortices. Orig. art. has: 8 figures. [W.A. No. 22; ATD Report 66-99] SUB CODE: 06 / SUBM DATE: 01Fob66 1 Card 3/3 eras cos H

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ACC NR: AT6036644	SOURCE CODE:	UR/0000/06/000/000/02	266/0268
AUTHOR: Luktyanova, L. D.;	Kazanskaya, Yo. P.;	Kol'tsova, A. V.; Noj	zerov, Ye. S.
ORG: none	*** <u>**********************************</u>		
TITLE: Investigation of the brain and brain oxygen meta at the Conference on Problem SOURCE: Konferentsiya pop kosmicheskoy meditsiny. (F Moscow, 1966, 266-268	abolism during stimula ms of Space Medicine l problemam kosmicheskoy	ition by vibration (Pa held in Moscow from 2 meditsiny, 1966. Pr	per presented 4-27 May 19667 roblemy
TOPIC TAGS: vibration biol oxygon consumption	ogic effect, central	nervous system, elect	roencephalograph
ABSTRACT: After exposure to vibra in changes of various indice after exposure to vibration, hypersynchronized waves (I	es of higher brain sec , slow (13 cps), hig HSW) were noted in th	ntions is observed. (h voltage (500700 ne EEG's of animals.	One min 5 v), These
were especially pronounced incided with a sharp increa	l in the sensorimotor se in oxygen consump	and visual cortices a ption in all sections of	and co- of the
brain. Repeated exposure sections subsequent to their Cord 1/3	caused a stage of HS	W generalization in a	all brain
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animals decreased during stressor stimulation, HSW was either irregular or did not occur.

A sharp decrease in oxygen consumption, disappearance of HSW, and manifestations of burst activity were noted after vibration in all brain sections. At the same time, a complete disinhibition of conditioned and unconditioned reflexes was noted, which indicated the development of generalized inhibition in higher brain sections. A two-wave decrease in oxygen consumption after vibration coincided in time with a two-phased intensification of the superslow potential and an intensification of hourly fluctuations. All this indicated a sharp disruption in normal functional nervous system interrelationships during this period.

The multiple application of a vibration stimulus caused an intermediate state characterized by compensation, adaptation, and relative functional normalization. A decrease in brain metabolic shifts was noted especially after vibration. The latent period of HSW development steadily increased in the visual and sensorimotor sections of the brain. Dominating rhythm in the auditory cortex and motor region of the subcortex became low-frequency (8--12 oscillations/sec), synchronized rhythms superimposed on HSW. The number of "fluctuations" and burst activity after vibration decreased and

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the duration of the normalization of these parameters was shortened after each exposure to vibration. Almost immediately after vibration, natural and conditioned reflexes were observed. The period of relative normalization during the repeated action of vibration alternated with a period of disrupted compensation and adaptation as reflected in a steady depression of rhythms during and after vibration. The level of conditioned reflexes decreased compared to normal levels and did not recover until 3 weeks after termination of the final exposure to vibration. The phase of increased oxygen consumption developing during vibration was not replaced by a decrease phase and continued to increase steadily. The artificial exclusion of peripheral impulsation by means of the partial exclusion of auditory and vestibular analyzers decreased the effect of vibration stimulus on the EEG of animals and brain metabolism. The stablishment of compensatory adaptations took place without lowering the general functional level.

These data indicate that during multiple exposure to vibration, a general decrease in the excitability of the central nervous system to peripheral im-

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AUTHOR: Luk'yanova, L. D.; Kol'tsova, A. V.; Meyzorov, Ye. S.; Kazanskaya, Ye. P.	+
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TITLE: Investigation of the connection between corebral oxygen metabolism, its electrical activity, and the conditioned reflex activity of animals after vibra-	
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tion	
SOURCE: AN SSSR. Institut biologicheskoy fiziki. Vliyaniye faktorov kosmicheskogo	
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functions of the central nervous system.) Moscow, Izd-vo Nauka, 1966, 105-124	
TOPIC TAGS: bioelectric phenomenon, rat, corebrum, biologic vibration effect, conditioned reflex, oxygen consumption, eeg, biologic metabolism, reflex activity	
ABSTRACT:	
Methods used in previous studies by the author were applied	
Methods used in previous studies of vibration (70 cps, to this expanded study of the effects of vibration (70 cps,	
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caused phased shifts in some indices of the functional condition	
of the brain.	
Card 1/2 UDC: 612.014.482	

L 07472-67 \mathcal{O} ACC NR: A1602.5377 The first phase, which occurred after 1--4 exposures, was characterized by the development of general inhibition in the 2 form of decreased cerebral oxygen consumption, corresponding EEG changes, intensification of very slow oscillations of the potential, and complete elimination of conditioned reflexes. The second phase, which occurred after the fourth exposure, was marked by the development of compensatory and adaptive processes and relative functional normalization. Diminished changes in oxygen metabolism were observed, together with corresponding EEG indexes and the recovery of natural conditioned reflexes followed by the development of artificial reflexes (those induced by experimental parameters). The third phase, occurring after 20--25 exposures, was characterized by a general decrease in the functional activity of upper cerebral centers. Oxygen consumption decreased, bioelectrical activity during and after vibration was depressed, and conditioned reflex activity was maintained at a low level long_after the last exposure. Orig. art. has: 10 figures and 1 table. [H.A. No. 22; ATD Report 66-997 SUB CODE: 06 / SUBM DATE: Olfeb66 Card 2 的時間的時代的

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KATATI SANA Y. . KAZANSKAYA, Yu.A. (Moskva) Public medicine in pre-Revolutionary Hussia in the control of epidemics. Sov.med. 21 no.11:145-150 N '57. (MIRA 11:3) (COMMUNICABLE DISEASES, prev. and control in Russia, hist.) न्<u>र्यन्त</u>्रस्ट ANALY STREET, ST . .

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KAZANSKAYA, Yu. A.: Master Med Sci (diss) -- "The history of the social struggle against epidemics in Russia (1861-1905). Material on the history of Russian epidemiology". Moscow, 1958. 16 pp (Min Health USSR, Central Inst for the Advanced Training of Physicians), 200 copies (KL, No 11, 1959, 122)

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近期出现者 但同時 25-6812 被125時 市 袁氏研究的 第二字 的 的 119 Ye. T. KAZANSKAYA, CA Ensyme systems in the blood and their reactions in toxic and septic conditions. E. L. Kaunakaya, and N. E. Bilinova (Leningrad Pediat. inst.). Topravy Pediat. (blabrany Maternaires i Deistra 18, No. 2, 27-30 (1050)... both the level of the ensymes and the type of reaction te-sponer to parenterial administration of milk are different in septic and toxic conditions. In the former, low levels of hyase and catalase are characteristic, with a consider-ministration. In toxic conditions a higher catalase with levels lowering of lipsase is found, and the milk reaction te-generally not. In children with combined conditions inputs not anylase are low, catalase is rather high, and the milk traction is variable. G. M. Kosolapoff . 1.0 र्ग द 17.1

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1997年1994年1994年1995年1997年1997

KAZANSKI, N.

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KAZANSKI, M.M.

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The Gulf Stream. Priroda Bulg 13 no.4:110-111 J1-Ag *64.



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SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 6, No. 1, January 1957

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- تحتمهم والمحصيصين والمعمدة Reliable aids for seamen and scientists in the Arctic. Mor. flot (MIRA 11:1) 17 no.12:8-9 D '57.
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> Initiators of flights without navigators. Mor. flet 18 no.5:22-23 Ny 158. (MIRA 11:6) (Navigation (Aeronautics)) (Arctic regions--Aerial exploration)

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VADIVASOV, Dmitriy Georgiyevich; KAZANSKIY, A., red.; LUKASHEVICH, V., tekhn.red.

[Investigating the effect of conditions of carrying out the electrometallisation process on the properties of metal coatings (in connection with the reconditioning of worn tractor and automobile parts] Issledovanie vliianiia uslovii protsessa elektrometallisatsii na svoistva metallicheskikh pokrytii (V sviazi s vosstanovleniem iznoshennykh traktornykh i avtomobil'nykh detalei). Saratovskoe knizh.izd-vo, 1958. 157 p. (Saratov. Institut mekhanizatsii sel'skogo khoziaistva. Trudy, no.15). (MIRA 13:7) (Agricultural machinery--Maintenance and repair) (Metal spraying)

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SEVHOV, Konstantin Lavlovleh, kund. tokhn. nauk, detr.; KAZAUSKIY, A., red.

> [Ferformance of mixors and the method of calculating their basic parameters for the mixing of mineral mixes with organic binding materials] Rabeta emesited i metodika rescheta ikh esnovnykh ternanete v pri peremeshivanii mineral'nykh esesei s organizheakimi vinzimshchimi materialami. Saratev, Saratevekee kalchaes 121ve, 1962. 177 p. (ElbA 18:1)

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KAZANSKIY, A.A. (Kasan').

A CONTRACTOR

Investigate water-bearing providents when boring artesian wells. Vod. 1 san. tekh. no.3:32-34 Mr '57. (MLRA 10:6 (Artesian wells) (MLRA 10:6)

KAZANSKIY, J.A.

AND PERSONNELSE

HIGH-ENERGY NUCLEAR FIRISICS: PARTICLE BONBARDMENT OF NUCLEIL

"The Passage of Scattered -Rays Through Mater," by V..I. Kukhtevich, A. A. Kazanakiy, Sh. S. Nikolayshvili, and S. G. Tsypin, <u>Atommaya Pher-</u> giya, No 2, February 1958, pp 138-143.

Measurements were made of the attenuation of the dose of scattered quanta from Au¹⁹⁹, Vo⁵⁰, and Na²⁴ sources, as functions of the distance abetween the source and detector at various angles of collimation, which excluded the possibility of a primary -ray entering into the detector. Measurements were carried out at distances from 3 to 4 to 8 to 10 mean free paths of the -quanta. The collimation angles varied from 30 to 80 degrees. The experimental data obtained are compared with the results of theoretical calcualtions, based on an assumption that makes it pobsible to reduce the problem to the calculation of 1the triple integral, instead of a direct solution of the kinetic equation. Satisfacatory agreement between the experimental and theoretical results is obtained.

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MIKHEYEV, N.I.; KAZANSKIY, A.A.; SOKOLOV, G.I. -----

UTEL ALL THE

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GNFZDILOV, V.G., polkovnik meditsinskoy sluzhby; GUDZIY, M.K., polkovnik peditsinskoy sluzhby; KAZANSKIY, A.A., polkovnik meditsinskoy zluzhby; KYABOV, M.F., polkovnik meditsinskoy sluzhby

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Role of the lymphatic system in pathogenesis of acute suppurative pleurisy. Khirurgiia, Moskva No.12:37-42 Dec 51. (CLML 21:4)

1. Of the Military Medical Academy imeni S.M. Kirov, Leningrad.

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KAZANSKIY, A. A. all in the

> Experience in using metal water towers in severe climatic conditions. Vod. i san. tekh. no.4:17-18 J1'55. (MLRA 8:12) (Water towers)

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XAZANSKIY, A.B.; MONIN, A.S. Shape of smoke jets. lzv.AN SSSR.Ser.geofiz. no.8:1020-1033 AG '57. (NLNA 10:8) 1.Akudemiya nauk SSSR. Institut fiziki atmosfery. (Smoke) (Jets--Fluid dynamics)

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SOV-49-59-6-4/12

AUTHORS: Kazanskiy, A. B. and Monin, A. S.

TITLE: Turbulence in the Surface Layers of the Atmosphere and in the Fresence of Unstable Stratification (O turbulentnom rezhime v prizemnom sloye vozdukha pri neustoychivoy stratifikatsii)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 6, pp 741-751 (USSR)

ABSTRACT: It is important in many practical cases to determine the basic properties of turbulence from changes in gradients (e.g. of air temperature). A. M. Obulhov and A. S. Monin have put forward a suitable representation (Refs.1-5) based on similarity theory. In their theory a stationary turbulent regime is represented by the following parameters: V, - the frictional velocity; q - the turbulent heat flow (or q/cpp³ °p where ρ are the specific heat and air density. and which can be considered standard) and $g/T_{_{O}}$, where ε is the acceleration due to gravity and To is the average air temperature in the surface layers. From these parameters, a scale length, velocity and temperature can be defined: Card 1/16

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Turbulence in the Surface Layers of the Atmosphere and in the Presence of Unstable Stratification.

$$L = -\frac{v_{\mathcal{K}}^3}{\kappa \frac{g}{T_0} \frac{q}{c_p \rho}}, \quad v = \frac{v_{\mathcal{K}}}{\kappa}, \quad T_{\mathcal{K}} = -\frac{1}{\kappa v_{\mathcal{K}}} \frac{q}{\alpha c_p \rho}$$
(1)

where κ is the Karman constant; $\alpha = K_{\rm T}/{\rm K}$ is a universal dimensionless constant; $K_{\rm T}$ is the turbulent heat conductivity coefficient and K is the turbulent viscosity coefficient. For wind velocity v and air temperature T as functions of height z and thermal stratification of the atmosphere, Eqs.(2) and (3) result. Where z_0 is the roughness height, $f(\xi)$ is a universal function with an undefined constant term (since it only enters as a difference). Eqs.(2) and (3) give Eq.(4) for the Richardson number. For small values of the argument, $f(\xi)$ has the form

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Turbulence in the Surface Layers of the Atmosphere and in the Presence of Unstable Stratification.

Eq.(5). The existence of a universal function $f(\xi)$ was confirmed by experimental data (Ref.4).(A value $\beta \simeq -6$ was obtained). The form of $f(\xi)$ in cases of stable stratification was studied in (Ref.6). This article studies the form of $f(\xi)$ in unstable stratifications

(q>0 and, hence, $L \leq 0$ and $\xi = z/L < 0$)

1. Free Convection. From Refs.1-5, it follows that consideration of the asymptotic form of the wind velocity profile at great heights in an unstable stratification (i.e. determination of the asymptotic form of $f(\xi)$ for large negative values of E) is equivalent to consideration with fixed z and $q > \hat{\sigma}$, $v_{q} \rightarrow 0$. Thus in an unstable stratification. the turbulent regime at great heights approximates to that of purely thermal turbulence without wind (i.e. free convocv = 0 and the turbulence is tion). For free convection, characterised by the parameters g/T_0 , $q/c_p \rho$ (turbulence obtains energy only from the thermal stratification instab-Card 3/16/11ty energy). It is impossible to form a scale length from

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Turbulence in the Surface Layers of the Atmosphere and in the Presence of Unstable Stratification.

these parameters. Thus this case is characterized by combinations of $q/c_p p$, g/T_o and z. In particular Eq.(6) is obtained for T(z): where c is a universal dimensionless constant (>0); T_{∞} is a constant with dimensions of temperature and the factor $\frac{1}{\alpha u^4/3}$ is introduced for convenience in future calculation Eq.(6) can be rewritten in the form shown:

$$\frac{T(z) - T(z_0)}{T_{\star}} = c \left(\frac{z}{L}\right)^{-1/3} - c \left(\frac{z_0}{L}\right)^{-1/3}$$

which, on comparison with Eq.(3), gives the asymptotic form Eq.(7) for $f(\xi)$ as $\xi \rightarrow -\infty$. Eq.(6) shows that, as the height increases; the temperature distribution approaches the isothermal. This is natural since, for an unstable Card 4/16/s-

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Turbulence in the Surface Layers of the Atmosphere and in the Presence of Unstable Stratification.

> tratification, the turbulent elements reach a great size at large heights, producing mixing which levels out the temperature profile. Differentiating Eq.(6) with respect to z gives Eq.(8), which gives Eq.(9) for the turbulent heat flow, , in free convection. It follows from Eq.(8), that, in q such conditions, the turbulence coefficient (Eq.10) grows rapidly with height, due to the increase in the turbulent elements and the increase in the intensity of the pulsations (proportional to $z^{1/3}$). The turbulence scale length, λ , is distinguished from z only by a numerical factor, which is denoted by $\kappa\lambda_{\infty}$. Putting $\chi = \kappa\lambda_{\infty} z$ and assuming

that in free convection $\lambda = \kappa z$, we have $\lambda_{\infty} > 1$ The

scheme outlined above corresponds to that suggested by A. A. Skvortsov (Ref.7), except that he uses a discrete spectrum of turbulent scale lengths, whereas the authors use a continuous spectrum. To determine the turbulent heat flow q and the exchange coefficient K in free convection, it is sufficient to measure the difference in temperature at two heights. Suppose these are z = 2H and z = H/2(where H-1-2 m). Put $\Delta T = T(2H) - T(H/2)$. Then from

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Turbulence in the Surface Layers of the Atmosphere and in the Presence of Unstable Stratification.

Eq.(5) an expression for ΔT is obtained which gives Eq.(11) for q. Thus q is differentiated from H⁴[ΔT]³ only by a constant, universal (but not dimensionless) factor. Substituting in Eq.(10) z = H and the value of q from Eq.(11), Eq.(12) is obtained. Hence K(H) is distinguished from H³[ΔT]⁴ only by a constant universal factor. Taking $\kappa = 0.43$; $\alpha = 0.8$; c = 1 from the experimental data given below, and putting $T_0 = 300^{\circ}C$ (ΔT in $^{\circ}C$, H in metres) Eqs.(13) are obtained. 2. The general case of an unstable stratification. In considering the form of f(F) in this case, it is convenient to consider the function F(Ri) - Eq.(14) - introduced by Priestley (Ref.9) and constructed on the basis of measurements

made by Swinbank (Ref. 10). These results were confirmed by Card 6/16/5-

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Paylor (Ref.11) and Priestley (Ref.12). Using Eqs.(1) and (3), F(Ri) and $f(\xi)$ are found to be connected by Eq.(15). Formula (4) and (5) indicate that, for small $|\xi|$, $f'(\xi) \approx$ $\approx 1/\xi$ and Ri $\approx \xi/\alpha$. If the asymptotic formula (7) for $f(\xi)$ at large $|\xi|$, Eq.(16) is obtained for F(Ri) at small and large [Ri]. The first of these asymptotic formulae corresponds to a logarithmic law for the wind relocity and temperature profiles (i.e. acts at a fixed LCO for small heights z). If function F(Ri) is plotted on a graph with |g|Ri| as the abscissa and $\int_{C} F(Ri)$ as the ordinate, the asymptotes of F(Ri) in terms of Eq.(16) will be two intersecting straight lines: for small [Ri] with slope -1/2 and for large [Ri] parallel to the axis with an ordinate F_{ro} . F(Ri) must decrease monotonically as [Ri] increases since $F(Ri) \geq F_{m}$. The asymptotes of F(Ri) intersect at a point given by Eq.(17). Empirical data indicate that [Ri] is of the order of several hundredths; but the empirical graph given by Obukhov-Monin indicates that $f(\xi)$ at e.g. Card 7/16 - 15

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SOV-49-58-6-4/12 Turbulence in the Surface Layers of the Atmosphere and in the Presence of Unstable Stratification. IR1 Kto is practically given by a logarithmic law. Hence, for RIC RI , F(Ri) practically coincides with its asymptote $F(Ri) = \pi^2 \alpha |Ri|^{\frac{1}{2}}$. If $|Ri| > |\tilde{R}i|$. it follows further, that $F(Ri) = F_{co}$, i.e. practically coincides with the second asymptote. Hence, the transitional zone between the two regions must be negligible. If: 5 (<0) is the root of $- = \alpha \dot{R} i$, it can be said that, for unstable stratification with $z < \xi L$, the profiles of wind velocity and temperature are described by a logarithmic law and with z > L, the mixing mechanism is almost the same as in free convection. Neglecting any transitional region between the two limiting conditions and changing from Card 8/16-\$5

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furbulence in the Surface Layers of the Atmosphere and in the Presence of Unstable Stratification.

F(11) to $f(\xi)$ (considered continuous), the interpolation bornaulae (Eq.18) are put forward. Fig.1 gives an empirical Graph of F(Ri) according to Taylor (Ref.11). The mean square deviation (indicated by the lines) is quite large. (Priestley stated the pulsational method of measuring the turbulent heat flow was insufficiently sensitive at high frequencies). Nevertheless, the points define the two regions guite accurately. The parameters on the graph are [Ri] and F₀₀ from which, knowing \varkappa , the constants α and c can be calculated from Eqs.(16) and (17). Friestley (Ref.9) obtained the value 0.68 for F₀₀ (which he considered too low), whilst Taylor obtained 0.79 ± 0.04. In (Ref.12), Priestley estimated a value 0.8 - 1.0. The value of [Ri] lies in the interval 0.025-0.04. The authors find a value for α of 0.32 (the accuracy being small, however) and they use values, c = 1, $\alpha = 0.8$, $\varkappa = 0.43$, which gives results in Eq.(18) agreeing with the empirical graph for $f(\xi)$ of Obukhov and Monin. Calculation of the straight lines in the method outlined above was carried out by several authors before Card 9/16-cs-

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SOV-49-58-6-4/12 Turbulence in the Surface Layers of the Atmosphere and in the Presence of Unstable Stratification. Priestley. Thus Pasquill (Ref.13) published graphs of the function (19), where E is the evaporation rate, χ the absolute humidity and α_1 the ratio of the exchange and motion coefficients. Pasquill's measurements were repeated by Rider (Ref.14), who also drew graphs of the function (20). Values for the turbulent frictional stress, $\tau = \rho v^2$ were determined by Rider, using a direct, dynamometric rethod, first suggested by Sheppard. Finally, Deacon (Ref. 15) drew graphs of the function (21), where v is determined by a pulsational method. (The functions $F_1(Ri) - F_4(Ri)$ are connected with Priestley's function as shown). Although all this experimental material could be collated it is in such poor agreement that further experimental data is required. Functions $F_3(Ri)$ and $F_4(Ri)$ are particularly suitable for determing $x - F_z(0) = x^2$; $F_{\mu}(0) = \mu$. The value $\mu = 0.4$ seems to be in good agreement Card 10/18/15-

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> .th the experimental data. 5. Interpretation of gradient neasurements. To determine L, vy and q , a method similar to that in Ref.6, for stable stratification, is used. Suppose v(H) and $\Delta T = T(2H) -$ -T(H/2) have been measured and z_o is known. (The latter is normally obtained by extrapolation to zero of the velocity of the wind velocity profile). The Richardson number (Eq.22) is first calculated from the gradient measurements. Putting $L_1 = L/H$ and using Eqs.(1)-(3), Eq.(22) can be written in the form Eq.(23). Substituting Eq.(18) in this equation, L_1 can be determined from B and ζ_0 . Fig.2 gives a nomogram for determining L from $\, 6 \,$ and $\, \zeta_{\rm o} \,$ - as derived from Eqs.(23) and (18). For large negative values of L_1 $\mathbf{E} \sim \frac{1}{L_1} \frac{\ln 4}{(\ln \zeta)^2}$; for small negative values

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$$G \rightarrow - \frac{2^{\prime}_{3}}{c(1-\zeta_{0}^{-\prime\prime}_{3})^{2}} L_{1}^{-\prime\prime\prime} .$$
 In determining the

frictional velocity $v_{\mathbf{x}}$, Eq.(24) (derived from Eq.2) can be used, and a nonogram for v_{*}/v can be derived from band ζ_{o} , using Eq.(18) (Fig.3). For large negative values

of L
$$\frac{v_{\star}}{v} \sim \frac{\kappa}{\ln 1/\zeta_0}$$
 and for small negative values

$$\frac{v_{\star}}{v} \sim \frac{\kappa}{c(1-\zeta_0 / z)} L^{-1/3}$$
. Using Eqs.(1)-(3), Eq.(25)

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is obtained for the turbulent heat flow. Fig.4 gives the Card 12/16 /5

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nomogram for $q/\alpha v \Delta r$. For heights of measurement higher than the dynamical turbulence layer, Eq.(13) can be used for determining q and K if the condition Eq.(26) holds. Values of Eq.(26) are given in a table. Swinbank's results confirm Eq.(13) and the numerical coefficient (0.14) therein used. Fig.5 gives a nomogram for calculating Eq.(13) (the abscispa is $|\Delta T|$ in degrees and the ordinates, q in (12) (the calculating mq.(12) (the cal 4. Scale of turbulence. As shown above $l = \kappa \lambda_z z$

According to similarity theory, in the case considered, $\mathcal{L} = \kappa \lambda (3/L)_z$ (where $\lambda(0) = 1$ and $\lambda(-\infty) = \lambda_{\infty}$). To determine $\lambda(\xi)$ and in particular λ_{\sim} , Eq.(27) (used in Refs.1, 2 and 6) is employed. Deleting K , using Eqs.(1)-(3) and substituting $\mathcal{L} = \kappa\lambda(\xi)z$, gives Eq.(28). For small negative values of ξ , it is found from Eq.(5) with $\beta = 0.3$

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that:

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$$\mathcal{L} = \kappa z \left[1 - \frac{7}{20} - \frac{z}{L} + 0 \left(\frac{z^2}{L^2} \right) \right]$$

For large negative values of ξ , it is found from Eqs.(7) and (28) that:

$$\lambda(\xi) = \left(\frac{3}{c}\right)^{3} \left(1 + \frac{c}{3} \xi^{-4/3}\right)^{-1}$$

Thus $\lambda_{co} = \left(\hat{z}_{c}\right)^{3} + \cdot$. If c is close to unity λ_{co} is close

to $1/\varkappa$ and, hence, in free convection, \mathcal{L} is asymptotically equal to 2. Substituting in Eq.(28) : Card 14/16 15

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Turbulence in the Surface Layers of the Atmosphere and in the Presence of Unstable Stratification.

 $f'(\xi) = \begin{cases} \frac{1+\beta\xi}{\xi} & (\xi_1 \leq \xi < 0) \\ -\frac{c}{3}\xi^{-\frac{1}{3}} & (\xi \leq \xi_1) \end{cases}$

where ξ_1 is determined from the fact that $f'(\zeta)$ must be continuous), Fig.6 is obtained for the function $\ell/z = \varkappa \lambda(\zeta)$. This represents the growth of turbulent elements with height for unstable stratification. There are 6 figures, 1 table and 15 references, 8 of which are Soviet and 7 English.

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5/049/60/000/01/024/027 E201/E191 Kazanskiy, A.B., and Monin, A.S. AUTHORS: Turbulence Above the Lowest Layer of the Atmosphere W TITLE: PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1960, No 1, pp 165-168 The authors discuss the stationary turbulence in the lower layers of the atmosphere, assuming uniformity along the horizontal direction. The problem was to find the distribution with height of the wind velocity components, temperature and some characteristics of turbulence, especially the turbulence (mixing) The analysis was based on the experimental material coefficient K. obtained by an American aerophysical expedition in 1953 reported in a book by Lettau and Davidson (Ref 3). In spite of the very careful organization of measurements during this expedition, individual results were not very reliable. Consequently the authors limit themselves to several typical cases (Figs 1-2). Among the results reported are the following conclusions: 1) Coriolis forces reduce the turbulence (mixing) coefficient, i.e. they tend to stabilize turbulence; and 2) under turbulent conditions the changes of the wind direction in the lowest hundred metres of the atmosphere amount

Card 1/2

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HAZANSKIY, A.B.

Heat balance of the open surface of ice on Fedchenko Glacier. Izv. AN SSSR. Ser. geofiz. no.12:1883-1586 D '60. (MIRA 13:12)

1. Institut fiziki atmosfery AN SSSR. (Fedchenko Glacier--Temperature)

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KAZANSKIY, A.B.

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Heat balance on the surface of the Fedchenko glacier. Dokl.AF SSSR 134 no.4:806-809 0 '60. (MIRA 13:9)

1. Institut fiziki atmosfery Akademii nauk SSSR. Predstavleno akad. A.A. Grigor'yevym. (Glaciological research)

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STATISTICS DISTRIBUTION

KAZANSKIY, A.B.; LEVIN, L.M.

Local capture coefficient variation across the plate. Trudy Vysokogor. geofiz. inst. AN SSSR 2:68-71 '61. (MIRA 14:12) (Cloud physics) (Meteorological instruments)

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KAZANSKIY, A.B.; MONIN, A.S.

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Dynamic interaction of the atmosphere and the earth's surface. Izv.AN SSSR.Ser.geofiz. no.5:786-788 My '61. (MIRA 14:4)

1. Akademiya nauk SSSR, Institut fiziki atmosfery. (Atmospheric turbulence) (Friction)

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S/169/62/000/001/045/083 D228/D302

AUTHORS: Kazanskiy, A. B. and Kolesnikova, N. V.

TITLE: Heat balance of the valley surface of the R. Sel'dara near the tongue of the Fedchenko Glacier

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 1, 1962, 21, abstract 1B153 (V sb. Glyateol. issledovaniya, nc. 6, M., AN SSSR, 1961, 104-110)

TEXT: The authors present the results of observations, obtained by the glaciologic expedition of the Akademiya nauk Uzbekskoy SSR (Academy of Sciences, Uzbek SSR), for the heat balance of the ground surface and for wind, temperature, and humidity conditions. It is noted that a mountain valley circulation is observed in the summer months near the tongue of the Fedchenko Glacter. The amplitude of the mean-daily variation of the heat flow in the vicinity of the tongue of the Fedchenko Glacier has a considerable magnitude. Convection is observed in the morning and afternoon hours above the valley surface of the R. Sel'dara. At night the valley

Card 1/2

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KAZANSKIY, A. B.

Dissertation defended for the degree of <u>Candidate of Physicomathematical</u> <u>Sciences</u> at the Institue of Atmospheric Physics 1962:

"Application of the Theory of the Near-Surface Layer of the Atmosphere to Several Problems of Glaciology."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

KAZANSKIY, A.B.; MONON, A.S.

Determination of the amount of movement, heat, and moisture in turbulent currents from gradient measurement data. Meteor. i gidrol. no.12:3-8 D '62. (MIRA 15:12)

1. Institut fiziki atmosfery AN SSSR. (Atmospheric turbulence)

APPROVED FOR RELEASE: 06/13/2000

KAZANSKIY, A.B.

Exploration of the region of nourishment of the Medvezhii glacier. Geofiz. biul. no.15:52-60 '65. (MIRA 18:11) (MIRA 18:11)



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ACCESSION NR: AP5021874		UR/0362/65	/001/008/0876/0879	
		551.551.8	14	1
AUTHOR: Kazanskiy, A. B.			41	
TITLE: Richardson oriti	pal number			
SOURCE: AN SSSR. Izvest	ya. Fizika atmosfer	r i okeana, v. 1, no.	B, 1965, 876-879	
TOPIC TAGS: atmospheric turbulence, atmospheric approximation calculation	thermodynamics, atmo	spherics, asymptotic a		
ABSTRACT: The Richardso	n number (Ri) was st	idied in the range O-H	Ri _{cr} (critical) in	
a stably stratified surf broaden earlier studies gradients of the average humidity of the air (Q)	and included an anal; s of the wind speed	ysis of accumulated da (u), temperature (T),	ata. The vertical and specific	
	$\frac{d\mu}{ds} = \frac{v_s}{v_s} \varphi(\xi),$			
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	$\frac{dT}{ds} = \frac{1}{xv_s} \frac{q}{c_p c_p}$	$\frac{1}{s} \varphi_1(\xi),$		
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AUTHOR: Kas	anskiy, A. B.		
ORG: none			
TITLE: Temp	erature field of glaci	erø	• 7
SOURCE: AN byulleten',	SSSR. Mezhduvedomstve no. 17, 1966, 25-32	nnyy geofizicheskiy	komitet. Geofizicheskiy
TOPIC TAGS:	glacier, ice, temperat	ure field	
possible to lar interes to their ca	determine the temperat t owing to the possibil tastrophic movement as ns presented in this ar temperatures in glacier	ure field of glacie ity of bottom thawi a result of the for ticle can be used f a. They can also b	by means of which it is rs. This problem is of particu ng of glaciers which can lead mation of a lubricating layer. or a theoretical prediction of a applied in paleoglaciology in iations of the temperature fiel
an attempt of glaciers	to ascertain climatic of from that which should ime. Orig. art. has:	l correspond to a gi	ven climate and to a given
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an attempt of glaciers glacial reg	from that which should ime. Orig. art. has:	l correspond to a gi	ven climate and to a given

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S/122/61/000/007/001/007 D209/D304

AUTHOR: Kazanskiy, A.M., Engineer

TITLE: Investigating large thrust bearings used as supporting bearings

PERIODICAL: Vestnik mashinostroyeniya, no. 7, 1961, 11-16

TEXT: The author describes a practical method of predicting the behavior of thrust bearings under given loading conditions. The present methods of calculating bearing performances are stated to be inapplicable to such exceptionally large bearings and some foreign authors have, therefore, developed theories taking into account the special characteristics involved. The maximum loading at the point of contact of the ball-bearings with the ball-race is determined and the resulting pressure at these points evaluated. In calculating these two quantities, it is assumed that the geometry of the ball-race remains unaffected by the applied forces and moments, and that the ball-bearings remain perfectly spherical. The result-

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S/122/01/000/007/001/007 D209/D304

Investigating large thrust ...

ing forces (resolved radially and tangentially-), when equated, give for the maximum force at the point of contact of the ballbearings with the grooves

$$P_{\max} = \frac{F_a D + kM}{Dzi_a w_a \sin \alpha} + \frac{kF_r}{zi_r w_r \sin \alpha}$$
(5)

where P_{max} - maximum pressure, F_{a} , F_{r} and M - the externally applied tangential radial force and moment, z - number of ball-bearings in one row, i_{a} , i_{r} - the number of rows of ball-bearings taking the loading, W_{a} , W_{r} - the number of contacts made with the ball race per row of ball-bearings; α - angle of contact of the ballbearings with the ball race, and D - distance between centers. However, this expression does not lead to direct results, so the author uses Hertz' expression to relate the forces for loadings with a clearance <0.2 mm. Hence

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Investigating large thrust ...

S/122/61/000/007/001/007 D209/D304

$$P_{\max} = \frac{4.5 \text{ M}}{Dz \cdot \sin \alpha} + \frac{F_a}{z \cdot \sin \alpha}, \quad (6)$$

which does not include W_a and i_a which are diffcult to determine and, therefore, avoided. The author then considers loading with clearances >0.2 mm. By finding the deformation at points A and B, and substituting,

$$P_{n} - P_{\bullet} \sqrt{\left[1 - (1 - \cos \gamma_{n}) \frac{(0.5b + n_{0})(k_{\bullet} + 1)}{2k_{\bullet} \gamma_{0}}\right]^{\bullet}} (9)$$

is found. Thus the total load on one row of balls is given by



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Investigating large thrust ...

which leads to

 $P_0 = \frac{\sum_{n=1}^{m} P_n}{2 \cdot C_0}.$

where m is the number of ball-bearings in one row actually carrying the load. Considering the beam to be simply supported, to have

certain bending moments acting on it, and making $\sum_{n=1}^{m} P_n = P_{AB}$ one

obtains

$$P_{0} = \frac{Q \pm \frac{M}{a_{0}}}{4C_{2}}$$
(10)
$$P_{max} = \sqrt{P_{0A}^{2} + (P_{rA} + P_{rB} + P_{rmax})^{2}}.$$
(11)

or

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Investigating large thrust ...

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The author then shows that by various assumptions and substitutions based on Hertz' and Baugersfeld's theories, the loadings are resolved to $F_{a\ cm} = 150\ D$, $F_{r\ cm} = 60\ D$, $M_{cm} = 30\ D^2$. These equations are in agreement with experimental results. The author draws the following conclusions: There are two possible ways of calculating the loading capacity of large sized thrust bearings. Eqs. 5, 10 or 11 would be used if the assumptions made in deducing these are accepted, or, the longer method, taking into account all the basic factors, could be used. The seond method is more complex and, therefore, the author prefers the former. There are 5 figures and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc.

Card 5/5

TAX SHEEL

ACCREMENTS.

APPROVED FOR RELEASE: 06/13/2000

KAZANSKIY, A.N.

Importance of a progress record in the effort to develop sound knowledge in students. **Mat**. v shkole no.5:40-46 S-0 '53. (MLRA 6:8)

1. Tul'skiy oblastnoy institut usovershenstvovaniya uchiteley. (Biology--Study and teaching)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310019-7"

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6941. KAZANSKIY, A. M. Mozg i yego robota. Osnovy ucheniya I. P. Pavlova o vyssh, nervnoy deyatel*nosti. <u>Tula</u>, Oblknigoizdat, 1954. 40. s ill. 20 sm. 5.000 ekz. 70 k. ...<u>/55-2951/p</u> 612.82

Knizhnaya Letopis' No, 6, 1955

KAZANSKIY, Aleksey Mikhaylovich; RYBAKOVA, N.T., red.; SMIRNOVA, M.I., tekhn.red.

[Lessons in "Safeguarding one's health" for the 4th grade; a manual for teachers in elementary schools] Uroki po teme "Okhrans zdorov'ie" (IV klass); posobie dlia uchitelei nachal'noi shkoly. Moskva, Gos. ucheb.-pedagog. izd-vo M-va prosv. RSFSR, 1957. 81 p. (MIRA 11:4) (HYGIBUS)

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CIA-RDP86-00513R000721310019-7

KAZANSKIY, Anatoliy Mikhaylovich, prof., doktor tekhn. nauk; BUDNIKOV, V.A., dots., kand. tekhn. nauk, red.; OVSYANNIKOVA, Z.G., red. izd-va; GARINA, T.D., tekhn. red.

[Study, adjustment and testing of steam engines] Isaledovanie, naladka i ispytanie parovykh mashin. Moskva, Gos. izd-vo "Vysshaia shkola," 1961. 119 p. (MIRA 1513) (Steam engines)

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CIA-RDP86-00513R000721310019-7"

Investigating the performance of wire transducers fixed on an elastic ball element. . Izm. tekh. no.9:16-19 S '61. (MIRA 14:8)

(Strain gauges)

KAZANSKIY, A.M., inzh.

Methods for designing large bearings for supporting and turning devices. Vest.mash. 41 no.7:11-16 J1 '61. (MIRA 1 (MIRA 14:6) (Bearings (Machinery))



APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310019-7"

KAZANSKIY, Aleksandr Mikheylovich; KHAVINSON, Yu.I., red.

[Agricultural production costs and w-ys to reduce them; using the example of the collective and state farms of Irkutsk Frovince] Sebestoimost' sel'skokhoziaistvennoi produktsii i puti ee snizheniia; na primerakh sovkhozov i kolkhozov Irkutskoi oblasti. Irkutsk, Vostochno-Si birskoe knizhnoe izd-vo, 1964. 88 p. (MIRA 17:8)

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网络拉拉德的英国 建合成单位 网络拉德斯

BALAR'YAN, G.G.; TYUTIN, V.A.; CHERE-USHKUI, S.D.; ZUZIK, D.T.;
KHODASEVICH, B.G.; FRAYER, S.V.; GUSAROV, Ye.I.; KAZANSKIY,
<u>AIM</u>: KASSIROV, L.N.; KARAYEV, S.A.; AHRANOV, V.A.;
VASIL'YEV, N.V.; BUGAYEV, N.F.; SAPIL'NIKOV, N.G.; KASTORIN,
A.A.; RUDNIKOV, V.N.; YAKOVLEV, V.A.; PERENYKIN, V.I.;
ISAYEV, A.P.; KUZ'NICHEV, N.N.; IL'ICH, S.A.; PRONIN, V.A.;
LUK'YANOV, A.D.; SHAKHOV, Ya.K.; IL'ICHEV, A.K., kand. sel'khoz. nauk; KOGAE, A.Ya.; TSYNKOV, M.Yu.; BABIY, L.T.;
GORBUNOV, I.I.; KOVALEV, A.M.; ROMANCHENKO, G.R.; BRODSKAYA,
M.L., red.; IVANOVA, A.N., red.; GUREVICH, M.M., tekhn. red.;
THUKHINA, O.N., tekhn. red.

[Economics of agriculture]Ekonomika sotsialisticheskogo sel'skogo khoziaistva; kurs lektsii. Moskva, Sel'khozizdat, 1962. 710 p. (MIRA 15:10)

制度的

1. 通行运行

(Agriculture-Economic aspects)

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CIA-RDP86-00513R000721310019-7"

KAZANSKIY, A.N., professor, doktor tekhnicheskikh nauk. T.N. G. J. S. S. State Parts

の主要な事業の

Determining the distance between drains. Torf.prom, 30 no.8123-28 Ag 153. (MLRA 6:7) (Peat industry)

KAZANSKIY, A.M., professor, doktor tekhnicheskikh nauk. Utilizing to the fullest extent the capacity of a P-3 locomobile. Torf.prom. no.2:26-30 '54. (MLRA 7:3) (Steam engines) 1. Moskovskiy torfyanoy institut.

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