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BARBARINA, T.M.; BUEYR', N.F.; BUTT, L.M.; VEL'SOVSKIY, V.N.; GORLOV, Yu.P.; GRIBANOVSKIY, V.G.; DROZDOV, I.Ya.; YEREMIN, I.A.: ZEZIN, V.G.; KEVESH, P.D.; KOCHAROV, E.P.; KOSYREVA, Z.S.; LEVIN, S.N.; MAKHNOVICH, A.T.; MERZLYAK, A.N.; RODOV, E.S.; ROZHNOV, A.I.; SEREBRYANSKAYA, B.I.; SUKHAREV, M.F.; USTENKO, A.A.; KHOMENKO, Z.S.; SIMIDT, L.M.; ETIN, A.O.; YAKHONTOVA, N.Ye.; KITAYTSEV, Vladimir Andreyevich, prof., doktor tekhn. nauk, red.; SKRAMTAYEV, B.G., glav. red.; TROKHIMOVSKAYA, I.P., zam. glav. red.; KRAVCHENKO, I.V., red.; KITAYGORODSKIY, I.I., red.; KRZHEMINSKIY, S.A., red.; ROKHVARGER, Ye.L., red.; BALAT'YEV,P.K. red.
[Manual on the manufacture of heat insulating and acoustical materials] Spravochnik po proizvodstvu teploizoliatsionnykh i akusticheskikh materialov. Moskva, Stroiizdat, 1964. 524 p. (MIRA 18:1)

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APPROVED FOR RELEASE: 09/17/2001

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KHOMENKO, Z. S.

USSR/Chemistry - Hydrocarbons Chemistry - Catalysis

Teb 49

"Irreversible Catalysis and Catalytic Dehydro-genation of Hydrocarbons on Activated Carbon, G. A. Rudakov, N. P. Borisova, O. A. Yemel'yanova, I. G. Yeroshevskiy, N. F. Komshilov, A. N. Makarova, N. M. Merlis, Z. S. Khomenko. Cen Sci Res Inst of Wook-Pulp Chem, 181 pp

"Zhur Priklad Khim" Vol XXII, No 2

Investigation carried out on pure tterpenes and a naphthene hydrocarbon, n-methane, showed that activated carbon brings about irreversible catalysis and dehydrogenation of hydrocarbons. This confirmed conclusions made long ago by Russian scientists working on pyrolysis of petroleum. Describes reactions in detail. Submitted 13 Mar 48.

PA 48/49719

APPROVED FOR RELEASE: 09/17/2001

238

KHOMENKO, Z. S. USSR/Chemistry - Catalysts Card 1/1 Pub. 151 - 29/38 Authors : Rudakov, G. A., and Khomenko, Z. S. Title : The nature of catalysts used for isomorization and polymerization of h	ıydro-
Title : The nature of catalysts used for isomerization and titanic acid carbons. Part 1 Cause for catalytic activity of titanic acid	
Periodical : Zhur. ob. khim. 24/2, 337-343, Feb 1954	
Abstract : The catalytic activity of titanic acid in the isomerization of pinene pared with that of aluminum silicate catalysts. The activity of the catalyst was found to be due mainly to its acid properties. The deriv active titanic acid through electro-dialysis with sodium salt proves activity of the Ti-catalyst is caused mostly by the characteristics of tanic acid and not by the presence of adsorbed acids or basic salts. catalytic activity and plainly expressed acidity make titanic acid cl lated to aluminum silicates and not to its closest analogues - silici and aqueous Al <sub>2</sub> O <sub>3</sub> . Fourteen references: 12-USSR; 1-USA and 1-Englis 1052). Tables: graphs.	vation of that the f the ti- The high ogely re- c acid
Institution : Central Scientific Research Forest-Chemical Institute	
Submitted : July 6, 1953	

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KHOME/ USSR/Chemist	VKO, Z. J. ry - Catalytic isomerization
Gard 1/1 :	Pub. 151 31/37
Authors :	Rudakov, G. A.; Khomenko, Z. S.; and Shestayeva, M. M.
Title :	Mechanism of heterogeneous catalytic hydrocarbon isomerization over acid catalysts. Part 1
Periodical :	Zhur. ob. khim. 24/3, 549-557, Mar 1954
Abstract :	The mechanism of reaction between pinene, camphene and limonene with cat- alysts resulting in their isomerization (titanic acid and activated lime) was investigated. It was observed that all three hydrocarbons tested isomerize rapidly and two of them racemize when heated with titanic acid. Camphene and limonene formed during catalytic isomerization of pinene over activated lime (125°) and over titanic acid (135-160°) will not react with above mentioned catalysts until the pinene concentration in the reaction mixture is reduced to 25-35%. It was found that the isomerization reaction takes place only on the surface of the catalyst and does not penetrate into the volume. Seventeen references: 9-USSR; 2-USA; 2-German and 4-English (1891-1953). Tables; graphs.
Institution :	Central Scientific Research Forest Chemical Institute
Submitted :	July 21, 1953

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	try Synthesis methods
Card	: 1/1 Pub. 151 - 30/33
Authors	: Rudakov, G. A., Shestaeva, M. M., Marchevskiy, A. T., and Khomenko, Z. S.
Title Periodical	<ul> <li>Mechanism of heterogeneous catalytic isomerization of hydrocarbons over acid catalysts. Part 2 Formation of terpinolene and terpinenes during catalytic isomerization of pinene and limonene over titanic acid.</li> <li>Zhur. ob. khim. 24/8, 1452 - 1457, August 1954</li> </ul>
Abstract	: The ionic scheme of formation of terpinolenes and terpinenes, as result of catalytic isomerization of pinene and limonene over a titanic acid catalyst, is explained. Direct conversion of pinene and limonene into alpha-terpinene, without the formation of terpinolene as an intermediate product, was established. The increase of the alpha-terpinene content in monocyclic terpenes, after reducing the pinene content in the solution and its effect on the formation of alpha-terpinenes from terpinolene, are explained. Ten references: 5 USSR; 3 USA; 1 German and 1 English (1899 - 1954). Table; graph.
Institution	: Central Scientific-Research Wood Pulp Chemical Institute
	: January 13, 1954

ATTA A CONSTRUCTS -

KHOMENKO, Z. S.

KHOMENKO, Z. S. -- "Perfecting the Industrial Technique of Isomerization of Pinene to Produce Camphene." Min Higher Education USSR. Sverdlovsk, 1955. (Dissertation for the Degree of Candidate in Technical Sciences).

So.; Knizhnaya Litopis', No. 7, 1956.

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APPROVED FOR RELEASE: 09/17/2001

KHOMENKO, Z.S., kand. tekhn. nauk; PROTOPOPOV, Yu.V., inzh.; BYKHAREVA, B.V., inzh. Producing fiberboards resistant to micro-organisms. Sbor. trud. (MIRA 17:11) VNIINSM no.7:59-64 163.





KHOMENKOVA, I.G., inzhener.

Using the method of statistical control for evaluating shoe quality. Standartizatsiia no.4:42-45 Je-Ag '57. (MLRA 10:9) (Shoe industry) (Sampling (Statistics))

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220007-9"

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KHOMENKOVA, K. K. سير وزموير ومصديده . .... 1.151.4 Sec. 10.14 . . . . . . . . . . . . . . . . ويجارح والمراجع والمحصر والمحاج es a signa series The second state of the se and the state of the 144 B-Alkoryothylbis(B-chloroethyl)amines. K. K. Khomen-kova and K. A. Koinev. Utrain Khim Zali 22, 194-9 (1958)(in Russian).-(CiCH<sub>1</sub>CH<sub>1</sub>h<sub>1</sub>h heated with ROH forms the following RO(CH<sub>1</sub>):N(CH<sub>1</sub>CH<sub>1</sub>CH<sub>1</sub>(R and m.p. of HCl salt given): Rt, 134°; iso-ir, 153°; Bu, 123°; RtMeCHCH<sub>2</sub>, 122.5°; C<sub>6</sub>H<sub>4</sub>, 115°; C<sub>6</sub>H<sub>4</sub>CHMe, 118.5°; CH<sub>2</sub>:CHCH<sub>2</sub>, 121.5°; eyclohexyl, 150°; PbCH<sub>3</sub>, 112-13°; [PhCH<sub>2</sub>O(CH<sub>2</sub>):hN(CH<sub>2</sub>):C(1, 77-8°. The compds. may be useful to the treatment of malignant neoplasms. John Have Scott MT 1. Ukrainskiy nauchno-issledovatel'skiy sanitarno-khimicheskiy institut. 

APPROVED FOR RELEASE: 09/17/2001

KORNEV, K.A.; KHOMENKOVA, K.K.

Synthesis of some chloroslkylamines of the pyrimidine series. Zhur.prikl.khim. 33 no.7:347-350 Jl '60. (MIRA 13:7)

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1. Ukrainskiy mauchno-issledovatel'skiy sanitarno-khimicheskiy (Amines) (Pyrimidine)

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APPROVED FOR RELEASE: 09/17/2001

ADROVA, N.A.; KHOMENKOVA, K.K.; DUBNOVA, A.M.

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Synthesis of new derivatives of p-vinylbenzoic acid. Zhur. ob. khim. 34 no. 5:1545-1546 My '64. (MIRA 17:7)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220007-9"

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## ACCESSION NR: AT4020708

s/0000/63/000/000/0195/0197

AUTHOR: Koton, M. M.; Adrova, N. A.; Khomenkova, K. K.

TITLE: Polymerization of some derivatives of p-vinylbenzoic acid

SOURCE: Karbotsepny\*ye vy\*sokomolekulyarny\*ye soyedineniya (Carbon-chain macromolecular compounds); sbornik statey. Moscow, Izd-vo AN SSSR, 1963, 195-197

TOPIC TAGS: polymerization, vinylbenzoic acid, vinylbenzoate, vinylbenzamide, polymer physical property, polyvinylbenzoate, dilatometry, azodiisobutyronitrile, butyl peroxide, block polymerization

ABSTRACT: Using a dilatometric method, the authors compared the block and liquidphase polymerization rates of p-vinylbenzoic acid, its methyl and amyl esters, p-vinylbenzamide and its N-methyl, N,N-dimethyl and N-amyl derivatives, using 0.2 mol.% tert.-butyl peroxide or azodiisobutyronitrile as the initiators, respectively, at 120-180C. Some of the physical properties (thermal stability, solubility, weight loss during heating) of the polymers obtained were also studied. The polymerization rate of the derivatives of p-vinylbenzoic acid decreased in the following order: acid amides esters. It was found that the polymerized amides of p-vinylbenzoic acid have a higher softening point and a higher thermal stability than the corresponding polymerized esters. Orig. art. has: 1 figure

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	/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4/Pt-10 RPL
ACCESSION NR: AT4049864	5/0000/64/000/000/0257/0259
AUTHOR: Adrova, N. A., Koton, M. M.	I., Khomenkova, K. K.
TITLE: Reaction of poly-p-vinyibenzoy	And the second
SOURCE: Khimicheskive svovstva i med	ilikatsiya polimerov (Chemical properties and the y. Moscow, Izd-vo Nauka, 1964, 257-259
TOPIC TAGS: vinylbenzolc acid, polyvin esterification, amidation, polymer there	
polymeric methyl p-vinylbenzoate with d with n-amylamine. The thermal stability deamination. Yields from 1 g poly-p-vin methanol wore 0.7 g of the benzamide or ethylamine was added in both reactions to vinylbenzamide was also prepared by a s with axedisobutyronitrile in dimethyle	ofuran solution, poly-p-vinylbenzoyl chloride, pre- 00C with 0.2 mol. & azodisobutyronitrile, gave ry methanol, and poly-N-n-amyl-p-vinylbenzamide y of the polyamide was improved by partial hylbenzoyl chloride and 5 ml amylamine or 10 ml 0.8 g of the methyl ester, respectively. Tri- o neutralize liberated HCL. Poly-N-n-amyl-p- econd route by polymerizing the monomer at 90C nanide solution, yielding after approximately 19% 600C in argon under 8-10 mm Hg pressure, a

· 또한 동안 전체 · · · · · · · · · · · · · · · · · ·		
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ACCESSION NR: AT4049864	1	• •
yellow polymer with increased the solvents, and its properties are	ermal stability. This poly	mer was incoluble in light-
solvents, and its properties are 2 tables and 2 chemical equations		structure. Orig. art. has:
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ASSOCIATION: Institu vy*sokon Polymers, AN SSSR)	nolekulyarny*kh soyedineni	y AN SSSR (Institute of High
SUBMITTED: 10Jun63	ENCL: 00	SITT CONT. OC.
NO REF SOV: 003	ng ang kasalang kasa Kasalang kasalang kas	SUB CODE: CC
	OTHER: 003	나는, 나는 것 같은 것은 것을 가지 않는다. 같은 것 같은 것은 것은 것은 것을 것을 것을 수 있는다.
방지 같은 것은 것은 것은 것을 가지로 못했다.		
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	L 16173-66 EWT(m)/EVIP(j)/T WW/RM ACC NR: AP5025346 SOURCE CODE: UR/0366/65/001/010/1742/1743
	Torney, K. A.; ; Khomenkova, Kanke 63
	AUTHOR: CHOVMIK, L. I., Masculo, St. M.,
	ORG: Institute of Chemistry of High-Molecular-Weight Compounds, Academy of Sciences, Ukrainian SSR (Institut khimii vysokomolekulyarnykh soyedineniy Akademii
	nauk Ukrainskoy SSR)
	TITLE: Synthesis of 5-alkyl-1,3-diallylisocyanurates
-	SOURCE: Zhurnal organicheskoy khimii, v. 1, no. 10, 1965, 1742-1743
	TOPIC TAGS: copolymerization, copolymer, polymer, heat resistance, chemical reaction, heterocyclic base compound ABSTRACT: The title compounds (I) are heavy liquids of a characteristic odor; they are of interest as potential grafting agents for the production of heat they are of interest as potential grafting agents for the production of an alkyl resistant copolymers. The syntheses were carried cut by the reaction of an alkyl
•	resistant/copolymers. The syntheses were carried cut of the second secon
	UDC: 547.491.3

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KHO M-	KOVA, N. C.	28-4-11/35
AUTHOR :	Khomenkova, N.G., Engineer,	on Methods in the Evaluation
TITLE:	of Footwear that otsenke kachestva ob	141)
PERIODICAL	Standartizateiya, 1957, # 4, pp 42	ar contain only technological
ABSTRACT	norms and descention of flexit	)111 by (non-
	now been device for testing tion of a new device for testing	this licelous to more energy
	in walking and wear indicates the ef	applied in a mass 2-3 week
	to a 25 angle of the total output test on 0.5% of the total output men's shoes at the factories "Sko and imeni Kapranov. Altogether, and imeni Kapranov.	of Weited "Parizhskaya Kommun prokhod", "Parizhskaya Kommun 378 half-pairs of leather- Parzhskaya Kommuna" and 312
Card 1/2	and imeni Kapranov. Altogetholy soled shoes at "Skorokhod" and " half-pairs of foam rubber soled and the factory imeni Kapranov w	shoes at "Parizing of approxi- ere tested. All had approxi-
Uaru 1/2		

KHOMENKOVA, N. G.: Master Tech Sci (diss) -- "Investigation of the strength of welt shoes and its effect on the wearing of leather soles". Moscow, 1958. 10 pp (Min Higher Educ USSR, Moscow Technological Inst of Light Industry), 130 copies (KL, No 4, 1959, 128)

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19152-52

CIA-RDP86-00513R000722220007-9

KHOMENKOVA, N.G. 28-58-1-9/34 Zakatova, N.D., and Gubarev, A.S., Candidates of Technical AUTHORS: Sciences, and Khomenkova, N.G., Engineer A New System of Sampling Chrome Leather (Novaya skhema ot-TITLE: bora prob khromovykh kozh) Standartizatsiya, 1958, # 1, pp 29-30 (USSR) PERIODICAL: The article describes a new system of sampling chrome leather, developed by the Tsentral'nyy nauchno-issledovatel'-ABSTRACT: skiy institut khozhevenno-obuvnoy promyshlennosti (Central Scientific Research Institute of the Leather-and-Shoe Industry). The new system consists in using a slightly smaller size of samples, as shown in the illustration (Figure 1). Tests at 6 different plants showed, that this system reduces waste and gives a more correct evaluation of smaller hides. The article includes a chart showing test results. A corresponding amendment is suggested for the "GOST 938-45"standard. There are 2 figures and 1 chart. Card 1/2

APPROVED FOR RELEASE: 09/17/2001





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KHOMENOK, V.P. (Kiyev)

Method of study of the vessels of the heart and kidneys by means of liquid rubber injection and subsequent use of corrosive preparations. Arkh. pat. no.12:78-82 '62 (MIRA 18:1)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220007-9"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220007-9 KHOMENTAUSKAS, T. [Homentauskas, T.] More products for people. NTO 3 no. 1:31 Ja '61. (MIRA 14:2) 1. Uchenyy sekretar' myaso-molochnoy sektsii Litovskogo respublikansko promyshlennosti. (Lithuania---Dairy products) 



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KHOMENTOVSKIY, A.S.

Khomentovskiy, A.S. "The carbonaceous deposits of the Chkalovsk oblast, their geography and mining prospects," Izvestiya Chkal. otd. (Geogr. o-va SSSR), Issue 1, 1948, p. 25-38 - Bibliog: 6 items

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949
KHOMENTOVSKIY, A.S.

Khomentovskiy, A.S. "The Gavrilovsk mineral deposit," Izvestiya Chkalov. otd. (Geog. o-ve SSR), Issue 1. 1948, p. 51-60

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949



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KHOMENT	OVSKIY, A.	S.						
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I look 1	YP. 4, 1948 G-2137 2 8 20 Opis <sup>1</sup> Zhurna	1.10	Min Co.	al Inc	l.	61.1.19915 11.18	Act pespering	Admin.
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- 1. KHCMENTOVSKIY, A. S.
- 2. USSR (600)
- 4. Geology and Geography
- 7. Orenburg Steppes in the Works of P. I. Rychkov, E. A. Eversman, S. S. Neustruyev. By F. N. Milkov (Doctor of Geographical Sciences; editor, commentator and author of introduction). (Moscow, Geography Press, 1949). Reviewed by A. S. Khomentovskiy. Sov. Kniga, No. 5, 1950.

9. 🛑 Report U-3081, 16 Jan. 1953. Unclassified.

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KHOMENTOVSKIY, A. S.

"Some Data on the Geology of the Tumanshetskiy Salt-Bearing Region," Byul. Mosk. ob. Ispyt. Prir., Ot. Geol., 25, No.3, 1950, pp. 65-79

Description of origin of the thick strate of the Cambrien platform in the northern foothills of Eastern Sayan and in the downstreams of the Tumarshet and Tagul Rivers in Eastern Siberia, which platform is covered with a noncenforming angle by the Devonian. It is assumed that there is an accumulation of Cambrian deposits in a mobile depression arising at the end of the Proterozoic and Pre-Cambrian folding zone, which passed along the southwestern pasrt of the Siberian platform. States that formation of Eastern Sayan is made up of two folded belts: northeast - Pre-Cambrian and southwest - Caledonian.

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#### CIA-RDP86-00513R000722220007-9

EHOMENITOVEKIY, A.S.
Most recent movements of the earth's crust within the limits of certain
saline structures of the southern Ural foothills. Biul.MOIP, Otd.geol.
28 no.455-20 '53. (MLBA 6:9)
(Ural Mountains--Subsidences (Earth movements) (Subsidences (Earth
movements)--Ural Mountains)

APPROVED FOR RELEASE: 09/17/2001

KHOMFNTOVEKIY, A. S.

Dissertation: -- "The Regularity of Arrangement of the Lignite Deposits of the Southern Ural Coal Fields in Relation to Its Structure and Tectonic Development." Dr Geol-Min Sci, Inst of Geological Sciences, Acad Sci USSR, 17 Jun 54. (Vechernyaya Moskva, Moscow, 8 Jun 54)

SO: Sum 318, 23 Dec. 1954

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A PARAMAN PERSONNAL APPROXIMATION A APPROXIMATIONA APPROXIMAT ABRANOV, S.K., kand.tekhn.nauk; AVLRSHIN, S.G., prof., doktor tekhn.nauk; ADCOSOV, I.I., doktor geol .- min.nauk; ADRIYEVSKIY, V.D., insh.; ANTROPOV, A.N., insh.; AFAHAS'YEV, B.L., insh.; BERGMAN, To.V., insh.; BLOKHA, Ye.Ye., insh.; BOGACHEVA, Ye.H., insh.; BUKRIMSKIY, V.A., kand tekhn .nauk: VASIL'YEV, P.V., doktor geol.-min.nauk; VINOGRADOV, B.G., insh.; GOLUBEV, S.A., insh.; GORDIYENKO, P.D., insh.; GUSEV, N.A., kand.tekhn.meuk; DOROKHIN, I.V., kand.geol.-min.meuk; KALMYKOV, G.S., insh.; KASATOCHKEN, V.I., doktor khim.meuk; KOROLEV, I.V., insh.; KOSTLIVISTY, A.A., insh.; KHATKOVSKIY, L.F., insh.; KRASHIMINNIKOV, G.F., prof. doktor geol.-min.nauk; KRIKUNOV, L.A., insh.; LEVIT, D.Ye., insh.; LISITEA, I.G., Mand.tekhn.nauk; LUSHNIKOV, V.A., insh.; MATVEYEV, A.E., dots., Mand.gool .- min.nauk; MEPURISHVILI, G.Ye., isnh.; MIROROV, K.V., insh.; MOLCHANOV, I.I., isnh.; MAUMOVA, S.N., starshiy nauchnyy sotrudnik; HIELPELOV, V.Ye., insh., PAVLOV, F.F., doktor tekhn.nauk; PANTUEOV, P.H., doktor gool .- min. neuk; POPOV, V.S., insh.; FYATLIN, M.P., kand. tekhn. nauk: RASHKOVSKIY, Ya.E., insh.; ROMANOV, V.A., prof., doktor tekha. neuk; RYEHOV, P.A., prof., doktor tekhn.neuk; SHLYATITEKIY, G.A., insh.; SPEARSKIY, M.A., insh.; TERRNT'YNV, Ye.V., insh.; TITOV, M.G., doktor khim.neuk; GOKARW, I.F., insh.; TROYANSKIY, S.V., prof.; doktor geol.-min.neuk; FEDCROV, B.D., dots., kend.tekhn.neuk; FEDCROV, V.S., insh. [deceased]; EHOMENTOVSKIY, A.S., prof., doktor geol.-min.neuk; TROYANOV-SKIY, S.V., otvetstvennyy red.; TERPIGORAV, A.M., red.; ERIEUMOV, L.A., red.; EUEXEROV, I.A., red.; MIRONOV, K.V., wed.: AVERENTW, S.G. red.; KUENERSOV, I.A., red.; MIRONOV, K.V., red.; AVERSHIN, S.G., red.; BURTERV, N.P., red.; VASIL'YHV, P.V., red.; MOLCHANOV, I.I., red.; RYEHOV, P.A., red.; BALANDIN, V.V., insh., red.; BLOKH, I.M., hand. tekhn.nsuk, red.; BURRINSKIY, V.A., kand.tekhn.nsuk; red.; VOLKOV, K.Ya., insh., red.; VOROB'YEV, A.A., insh., red.; ZVONAREV, K.A., prof. doktor tekhn nauk, red. (Continued on pert card) 

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ABRAMOV, S.K .---- (continued) Card 2.

ZDANOVICH, V.G., prof., doktor tekhn.nauk, red.; IVANOV, G.A., doktor geol.-min.nauk, red.; KAHAVAYEV, N.M., red.; KOROTKOV, G.V., kand.geol.min.nauk, red.; KOROTKOV, M.V., kand.tekhn.nauk, red.; MAKKAVEYEV, A.A., doktor geol.-min.nauk, red.; OMEL'CHENKO, A.N., kand.tekhn.nauk.red.; SENDERZON, E.M., kand.geol.-min.nauk, red.; USHAKOV, I.N., dots., kand. tekhn.nauk, red.; YABLOKOV, V.S., kand.geol.-min.nauk, red.; KOROLEVA, T.I., red.izd-va; KACHALKINA, Z.I., red.izd-va; PROZOROVSKAYA, F.L., tekhn.red.; NADEINSKAYA, A.A., tekhn.red.

[Mining; an encyclopedia handbook] Gornoe delo; entsiklopedicheskii apravochnik. Glav. red. A.M. Terpigorev. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po ugol'noi promyshl. Vol.2. [Geology of coal deposits and surveying] Geologiia ugol'nykh mestorozhdenii i marksheiderskoe delo. Redkolegiia toma S.V. Troianskiy, 1957. 646 p. (MIRA 11:5)

1. Chlen-korrespondent AN SSSR (for Karavayev) (Coal geology-Dictionaries)

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KHOMENTOVSKIY, A.S., nauchn. red.; SHPAKOVSKAYA, L.I., red.

[Geology and conditions governing sedimertation in the Suchan coal basin] Geologicheskoe stroenie i usloviia osadkonakopleniia na territorii Suchanskogo kamennougol'nogo basseina. Novosibirsk, Red.-izd. otdel Sibirskogo otd-niia AN SSSR, 1964. 231 p. (MIRA 18:1)

1. Akademiya nauk SSSR. Sibirakoye otdeleniye. 2. Chlenkorrespondent AN SSSR (for Khomentovskiy).

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KHOMENTOVSKIY, A.S., otv. red.

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[Geology and paleogeographic conditions governing the forma-tion of Mesozoic and Cenozoic continental depressions in the southern part of the Far East] Geologiia i paleogeograficheskie usloviia formirovaniia mezo-kainozoiskikh vpadin iuzhnoi chasti Dal'nego Vostoka. Moskva, Nauka, 1965. 105 p. (MIRA 18:4)

1. Akademiya nauk SSSR. Dal'nevostochnyy filial, Vladivostok. Geologicheskiy institut. 2. Chlen-korrespondent AN SSS .

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REPINA, L.N.; SEMIKHATOV, M.A.; KHOMENTOVSKIY, V.Y.

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Stratigraphy of Cambrian deposits in the western regions of Mastern Sayan. Dokl.AN SSSR 110 no.1:133-136 S-0 '56. (MLRA 9:11)

1. Institut geologicheskikh nauk Akademii nauk SSSR, Predstavleno akademikon N.S. Shatskin. (Sayan Nountains--Geology, Stratigraphic)

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IC MENT	TOUSKIY, U.V.	
AUTHOR :	Khomentovskiy, V.V.	11-7-1/23
TITLE:	"On Tectonics of East Sayan" (K tekt	onike Vostochnogo Sayana)
PERIODICAL:	"Izves <b>tiya Akademii Nauk</b> SSR" Seriya No. 7, pp. 3-26, (USSR)	geologicheskaya, 1957,
ABSTRACT: Card 1/4	The western section of the East Saya ample of ancient layers, the formatidue to their accessiblity, simplicit turbed strata, well recognizable hor ance of Cambrian faunal fossiles. The Academy of Sciences of the USSR logists in 1953-55 to study the vari- plexes in order to clarify the exist Scant data are available on the Pre- the explored sections of East Seyan. problems have yet to be solved, it of area was subjected to great changes Lower Proterozoic as well as between terozoic eras. Nors definite data of of the East Sayan are available of to Cambrian period. When analyzing the period it must be concluded that the	on of which can be studied by of structure, undis- dizons levels and abund- the Geologic Institute of assigned a group of geo- ous stratographic com- ding contradictory views. Cambrian development of Although many geologic can be stated that this during the Archean and the Lower and Upper Pro- on geological structures the beginning of the Lower a facies of the Cambrian
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"On Tectonics of East Sayan"

#### 11-7-1/23

dry rigde dividing 2 sea basins during the entire Lower Canbrian period. Although concrete data on the continuation of the East Sayan geosyncline beyond the surveyed territory are not available at present, based on recently conducted studies, it can be assumed that Proterozoic layers extend several hundred km in south easterly direction from the boundaries of East Sayan. Judging by Cambrian deposits, it must be assumed that the entire area of the East Sayan anticlinorium was geoanticline during the Cambrian period. In contract to this, the Sisim synclinorium experienced an intense depression during the Cambrian period, and does not differ structurally in any way from the extensive Sayan-Altay geosyncline territory. The compositions of the Bellyksk White Mountains area's Lower Cambrian deposits differ essentially from the Sisim synclinorium, since they are almost void of effusions and consist predominantly of limestone formations. The available data indicate the originality of the geologic structure of the Mana synclinorium. The texture of the Cambrian deposits of which it is composed, have been influenced to some extent by Pre-Cambrian rock formations. In fact, the very simple texture of the Solbin syncline supports the assumption that it extends as a consolidated strata underneath the Arch-

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"On Tectonics of East Sayan"

## 11-7-1/23

ean. The Zherzhul syncline is distinguished from the Solbin syncline not only by its more complicated structure, but also by its composition and the magnitude of Cambrian deposits. Thus, the vast Archean strip, extending over a vast distance in a north-westerly direction parallel to the East Sayan anticlinorium, covers a distance of almost 1 meridian. The meridian virgation of the East Sayan anticlinorium, superposed by unconformable Cambrian layers of the Mana synclinorium, are extended into the Yenisey ridge. Consequently, the Mana syn-clinorium represents a depression overlaying a very complex and heteregeneous Pre-Cambrian formation. The great magnitude of Cambrian deposits, intense deformation and great number of intrusions indicate the geosyncline structure of this depression. Cambrian layers, found on the northern slopes of the East Sayan resemble very much as to their magnitude, lithologic composition and stratographic sequence, deposits of the Lower Cambrian of the Mana synclinorium. When comparing various sections of the Angara-Kan depression, it will be noticed that the typical geosyncline characteristics diminish with increasing distance from the Mana synclinorium in the direction of the Siberian plateau. It follows that the Angara-Kan depression was formed at a time of intense sagging

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	s of East Sayan" 11-7-1/23
	of the Sayan-Altay geosyncline area, preceded by heavy tec- tonic movement and erosion. The author lists the following subdivisions of geologic formations and periods: 1. Mana synclinorium: Ust'-Mana, Zherzhul Solbin syncline; Izysk and Beretsk anticline. 2. Lower Protezoic era: Kozhelak, Derbino and Zhayminsk layers. 3. Upper Proterozoic era: Kuvaysk, Pavlovsk and Urmansk layers. 4. Mana synclinorium: Angul Anastastical
	5. Sisim synclinorium: Kameshkovsk, Balakhtisonsk and Kizirsk layers. 6. Cambrian-Ordovicium: Badabovsk and y
SSOCIATION:	The bibliography lists 33 references, 30 of which are Slavic (Russian).
SUBMITTED:	Geologic Institute of the Academy of Sciences USSR (Geo- logicheskiy institut AN SSSR) Moskva. February 12, 1957
VAILABLE: ard 4/4	Library of Congress

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## PHASE I BOOK EXPLOITATION 1199

## Khomentovskiy, Vsevolod Vladimirovich

- Geologicheskoye stroyeniye i istoriya razvitiya Vostochno-Ural'skogo antiklinoriya na Srednem Urale (Geological Structure and History of the Development of the East Ural Anticlinorium in the Central Ural Region) Moscow, Izd-vo AN SSSR, 1958. 68 p. (Series: Akademiya nauk SSSR. Geologicheskiy institut. Trudy, vyp. 7) 1.600 copies printed.
- Chief Ed.: Shatskiy, N.S., Academician; Resp. Ed.: Shtreys, N.A.; Ed. of Publishing House: Kotlyarevskaya, P.S.; Tech. Ed.: Rylina, Yu.V.
- PURPOSE: This monograph is intended for professional geologists, petrographers, and students of the structural geology of the principal metallogenetic provinces in the USSR. .
- COVERAGE: Referring to numerous earlier studies of the Urals, the author reports on recent mapping achievements, the stratigraphic, structural, and petrographic studies compiled on extrusive rock massifs in the heart of the industrial Urals, and their distribution

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Card 1/3

## Geo APPROVED FOR FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220007-9

and configuration. The effects of volcanism and the Hercynian regional trend bearing on the regional structural pattern of the area is also discussed. The following are mentioned as having contributed to the study of this area: Borodayevskaya, M.B. - dike formations and small intrusions; Nalivkin, D.V. - stratigraphy of the Urals; Librovich, L.S., Gorskiy, I.I., Kuznetsov, Ye.A., Romanov, M.B. and Matveyev, V.I. - the geological structure of the eastern slope of the Urals; Shteynberg, D.S. and Borodayevskiy, N.I. - surveys of the environs of Berezovsk for large scale mapping; Shtreys, N.A. - stratigraphy of greenstone series of the Central Urals; Sergiyevskiy, V.M.-volcanism in the Urals; Sobolev, I.D., Aladinskiy, P.I., Burdine, O.V., Volcanism in the Urals; Sobolev, I.D., Aladinskiy, P.I., Buruine, U.V., Dianova, T.V., Kudrina, N.I., Nenakhov, Ye.M., Nechayeva, A.P., Nechayev, P.N. and Spasskiy, N.A. - cross-sections of the Central Urals; Stepanenko, A.F. and Khalilbeyli, Ch. A. - petrographic studies; Pav-lova, T.G., Zavodchikov, S.G., Zakhvatkin, V.A. and Sidorenko, N.F. -field studies of Central Urals; and Kashin, S.A., Keller, B.M., Menner, V.V. and Kleraskov, N.P. - editorial advisors. The text is ac-companied by 6 diagrams and 38 Soviet references.

TABLE OF CONTENTS:

Card 2/3

AUTHORS: Keller, B.M. and Khomentovskiy, V.V.

TITLE: The Differentiation of the Rifey Group (O raschlenenii rifeyskoy gruppy)

PERIODICAL: Byulleten' Moskovskogo obshchestva ispytateley prirody, Otdel geologicheskiy, 1958, Nr 4, pp 148-149 (USSR)

AESTRACT: This is a summary of a report given by the authors at a conference of the Moscow Society of Naturalists on 29 April 1958. The study of profiles of the European part of the USSR and Siberia shows that two distinctly different complexes can be distinguished in the composition of the Rifey group (as established by N.S. Shatskiy for the late Pre-Cambrian period): 1) the Lower or Sinian complex and 2) the Upper or Timankly complex. The authors describe these two groups in detail.

1. Geology

Card 1/1

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CIA-RDP86-00513R000722220007-9

AUTHORS: Repina, L.N., Khomentovskiy, V.V. SOV/5-58-4-23/43 TITLE: Basic Stratigraphical Problems of the Lower Cambrian Stage (Osnovnyye voprosy stratigrafii nizhnego kembriya) PERIODICAL: Byulleten' Moskovskogo obshchestva ispytateley prirody, Otdel geologicheskiy, 1958, Nr 4, pp 149-150 (USSR) **ABSTRACT:** This is a summary of a report given by the authors at a conference of the Moscow Society of Naturalists on 29 April 1958. The authors consider and explain new data on the stratigraphy of the Lower Cambrian Stage in Siberia and America, and come to the conclusion that according to its importance, the Lower Cambrian Stage should be regarded as a separate system in future geological studies. 1. Geology 2. Geological time--Determination Card 1/1 

APPROVED FOR RELEASE: 09/17/2001

lTLE:	New Data Concerning the Stratigraphy of Lower Cambrian of the Mariinskaya Tayga (Novyye dannyye po stratigrafii nizhnego kembriya Mariinskoy taygi)
PERIODICAL:	Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 6, pp 1092-1095 (USSR)
ABSTRACT:	By interpreting the profile at the middle part of the Kiya river, on which all the stratigraphic constructions of the Lower Cambrian of the northern Kuznetskiy Alatau are based, occur still several not fully solved problems: 1) The age of
	the limestones containing Archaeocyathen is very contradictory determined; 2) There is no agreement about the existence and the stratigraphical position of the limestone mass, which is characterized by alga of the Newlandia type (Refs 1,2). The geological structure of the above mentioned district is il-
•	lustrated by figure 1. Here one can separate four natural sediment-complexes. The Archaeocyathen limestones, which are widespread here, are massive and give hardly essential facts
Card 1/3	for the determination of the inner structure. Therefore, the

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SOV/20-123-6-37/50 New Data Concerning the Stratigraphy of Lower Cambrian of the Mariinskaya Tayga

> paleontological method becomes very important in this area. An idea of the full stratigraphical extent of these limestones could be gained by the construction of two actual profiles at the Kiya river. The authors separate five layers in these Archaeocyathen limestones (total thickness 2300 respectively 1300 m). These limestones comply with the Bazaikhskiy horizon of the Lena stage, according to the results. The upper part of the mentioned limestones belongs to the higher lying Sanashtykgol'skiy horizon, while the lowermost part and the platelike limestones belong to the Kameshkovskiy horizon. This fact complies (Ref 3) with the upper part of the Aldanskiy stage as well as with the Sinskiy, Tolbochanskiy, and one part of the Olekminskiy horizon of the Lena stage in the plateau. The under-lying black limestones and schists (at least 2000 m thick) are connected to the Archaeocyathen limestones by gradual transitions. Therefore, they can only be compared with the Aldanskiy stage of the Lower Cambrian. The finding of alga of the type Newlandia (determination by P. S. Krasnopeyeva) cannot prove the pre-Cambrian age of the rocks containing them. The

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New Data Conce Tayga	rning the Stratigraphy of Lower Cambrian of t	20-123-6-37/50 he Mariinskaya
	tuffogenic suite covers the uppermost strata Archaeocyathen limestones without an apparent Their age can be determined as the upper part although a part of it is possibly already end Cambrian. Their age is not greater than Middl L. V. Alabin collected and delivered the Arch are 1 figure and 6 Soviet references.	t discordance. t of the Lena stage, croaching on Middle Le Cambrian.
PRESENTED:	April 29, 1958, by N. S. Shatskiy, Academicia	in
SUBMITTED:	April 24, 1958	
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The synthesis was a second and a second

KHOMENTOVSKIY, V. V.: Master Geolog-Mineralog Sci (diss) -- "The Proterozoic and Cambrian deposits of the western portion of the eastern Sayan". Moscow, 1959. 20 pp (Acad Sci USSR, Geol Inst), 150 copies (KL, No 12, 1959, 127)

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3(5)	sov/11-59-10-4/16
AUTHOR:	Khomentovskiy, V. V.
TITLE:	Structural-Facial Lowor Cambrian and Riphean Zones of the South- Western Framing of the Siberian Plateau
PERIODICAL:	Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, No. 10, pp 42-49 (USSR)
ABSTRACT: Card 1/4	The above zone is described by the author who studied it to- gether with I.T. Zhuravleva and L.N. Repina. Other parts of the Sayan-Alatey folded zone have already been studied and de- scribed by V. A. Kuznetsov, S.V. Obruchev, A.S. Khomentovskiy, V.M. Yaroshevich and Yu. G. Shcherbakov. A large miogeosyn- cline borders the Siberian Plateau from the southwest (figure 1). It is composed of Lower-Cambrian strata similar to those of the Siberian Plateau, only less thick. In both cases, the Cambrian strata non-conformingly overlie the Riphean forma- tions. The Plateau and the miogeosyncline are delimited by a long bending flexure. On the Yeniseyskiy, mountain ridge, the structure of those Riphean formations on both sides of the flexure are different. In the east, carbonaceous strata are

## SOV/11-59-10-4/16

Structural-Facial Lower Cambrian and Riphean Zones of the Southwestern Framing of the Siberian Plateau

predominant, and in the west - mainly terrigenous and effusive strata. Farther to the southwest, the miogeosynclinal crosssection type of the Lower-Cambrian strata is replaced by one of a eugeosynclinal type characterized by large effusive strata often intensively metamorphized and faulted by numerous intrusions. The East-Sayan anticlinorium forms a border between the mio- and eugeosynclines. In the eugeosynclinal part of the Sayan-Altay folded zone, two different cross-sections of the Lower-Cambrian and Upper--Paleozoic strata were found, one essentially carbonaceous, and the other - essentially effusive. The author gives a detailed description of the region from which it appears that the internal part of the Sayan-Altay folding zone was filled with carbonaceous facies of Upper-Riphean and Lower-Cambrian formations forming a huge triangle bordered on each side by a narrow stretch of effusive formations of the same age. These facial zones are at the same time structural zones, as the effusive formations are thicker than the carbonaceous formations, the regions of theim development

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# sov/11-59-10-4/16

Structural-Facial Lower Cambrian and Riphean Zones of the Southwestern Framing of the Siberian Plateau

form depressions or troughs, and a linear folding is observed in these depressions filled with effusive rocks. The regions where the carbonaceous facies are developed were characterized by large brachy and box-folds of various form and orientations. The structure of facial zones especially stands out when specific belts associated with the central parts are examined. These belts are characterized by their association with the widely metamorphized and deformed strata of the Paleozoic era. These belts were presumably formed in places of plutonic ruptures, which explains their expansion (up to 700 km). Their connection with magmatic hearths explains the degree of metamorphosis of strata forming these belts. Sharply defined limits of metamorphosis in these belts proves, says the author, that they were formed along the plutonic ruptures which explains their "longevity". The geosynclinal troughs, originated in places of plutonic ruptures, have existed at least since Upper-Paleozoic times. Thus, the peculiarity of these ruptures was that they formed highly penetrable belts

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KELLER, B.M.; KHOMENTOVSKIY, V.V. Abstract of Carl Dunbar and John Rodgers' book "Principles of stratigraphy," Biul. MOIP. Otd. geol. 34 no.5:150 S-0 '59. (MIRA 14:6) (Geology, Stratigraphic) (Dunbar, Carl) (Rodgers, John)

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KHOMENTOVSKIY, Vaevolod Vladimirovich; SEMIKHATOV, Mikhail Aleksandrovich; REPINA, Leda Nikoleyevna; SHATSKIY, N.S., akademik, glavnyy red.; MENNER, V.V., samestitel' glavnogo red.; KELLER, B.M., red.toma; VERSTAK, G.B., red.isd-va; KASHINA, P.S., tekhn.red.

[Areal geology of the U.S.S.R.] Regional'nais stratigrafile SSSR. Glav.red.N.S.Shatekii. Moskva. Vol.4. [Pre-Cambrian stratigraphy and lower Falcosoic sediments of the western part of the Eastern Sayan Mountains] Stratigrafile dokembrilskikh i nishnepoletosoiskikh otloshenii sapadnoi chasti Vostochnogo Saiana. [Lower and middle Cambrian trilobite complexes in the western part of the Sayan Mountains] Komplekey trilobitov nishnego i srednego kembrile sapadnoi chasti Vostochnogo Saiana. 1960. 235 p. (NIRA 13:4)

1. Akademiya nauk SSSR. Geologicheskiy institut. (Sayan Mountains--Geology, Stratigraphic) (Sayan Mountains--Trilobites)



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ZHURAVLEVA, I.T.; REPINA, L.N.; KHOMENTOVSKIY, V.V.

Continuous carbonate section of the Lena stage of the lower Canbrian in the Altai-Sayan mountain country and its paleontological characteristics. Dokl.AN SSSR 132 no.5:1160-1162 Je '60. (MIRA 13:6)

1. Geologicheskiy institut Akademii nauk SSSR. Predstavleno akademikom N.S. Shatskim. (Altai Mountains--Rocks, Carbonate) (Sayan Mountains-Rocks, Carbonate) (Paleontology, Stratigraphic)

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KHOMENTOVSKIY, V.V.

Formation of structural and facies zones in southwestern Siberia and minerals associated with them. Zakon.razm.polesn.iskop. 3:7-87 160. (MIRA 14:11)

1. Geologicheskiy institut AN SSSR. (Siberia, Western---Minerals)

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KHOMENTOVSKIY, V.V.; ZHURAVLEVA, I.T.; REPINA, L.N.; ROZANOV, A.Yu.
Lower Cambrian in the Gornyy Altai. Izv.AN SSSR.Ser.geo. 27 no.3:55-71 Mr '61. (MIRA 15:2)
1. Geologicheskiy institut AN SSSR, Moskva. (Altai Mountains--Geology, Stratigraphic)

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ZHURAVLEVA, I.T.; REPINA, L.N.; KHOMENTOVSKIY, V.V.

1.1. CONTRACTOR STRUCTURES AND DESCRIPTION OF A DESCRIPT A DESCRIPTION OF A DESCRIPANTA DESCRIPTION OF A

Plan for dividing Lower Cambrian sediments in the Sayan-Altai folded region. Geol.i geofiz. no.1:21-41 '62. (MIRA 15:4)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk. (Sayan Mountains--Geology, Stratigraphic) (Altai Mountains--Geology, Stratigraphic)

(Folds (Geology))

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REPINA, L.N.; KHOMENTOVSKIY, V.V.; ZHURAVLEVA, I.T.; ROZANOV, A.Yu.; SOKOLOV, B.S., otv. red.; VANIN, V.S., red.izd-va; IL'INA, N.S., red.izd-va; DOROKHINA, I.N., tekhn.red.

[Lower Cambrian biostratigraphy of the Sayan-Altai fold area] Biostratigrafiia nizhnego kembriia Saiano-Altaiskoi skladchatoi oblasti. [By] L.N.Repina i dr. Moskva, Izd-vo "Nauka," 1964. 363 p. (MIRA 17:3)

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ALEKSEYEVA, R.Ye.; BETERNTINA, O.A.; VOZZHENIKOVA, T.F.; GRATSIANOVA, R.T.; DUBATOLOV, V.N.; YALKIN, Ye.A.; ZAKHAROV, V.A.; IVANOVSKIY, A.B.; SIDYACHENKO, A.I.; KUL'KOV, N.P.; NYAGKOVA, Ye.I.; OBUT, A.M.; SAKS, V.N.; TESAKOV, Yu.I.; FURSENKO, A.V.; KHOMENTOVSKIY, V.V.; YUFEREV, O.V.

> Corresponding Member of the Academy of Sciences of the U.S.S.R. Boris Sergeevich Sokolov; 1914 - ; on his 50th birthday. Geol. (MIRA 18:2) i geofiz. no.8:140-147 164

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 SEMIKHATOV, M.A.; KHOMENTOVSKIY, V.V.

Geological prerequisites of the bauxite potential of sediments of the Wendish complex of the Manskoye synclinorium (Eastern Sayan). Biul. MOIP. Otd. geol. 39 no.3:41-56 My-Je '4'. (MIRA 17:12)

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SEMIKHATOV, M.A.; KHOMENTOVSKIY, V.V.

Stratigraphy of the Upper Cambrian in the western part of the Eastern Sayan Mountains. Geol. i geofiz. 10.7:97-102 '64.

(MIRA 18:8) 1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

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26462 s/140/61/000/003/008/009 On systems of ordinary differential ... C111/C333 of  $x_1, \ldots, x_n \in E_n$ ,  $E_n$  a linear space and A = E for c = 1, where E -- unit matrix, is assumed to define the system of differential **c**  $\frac{dz_{i}}{dc} = \varphi_{i}(z_{1},...,z_{n})$  (i = 1,...,n) (1.2)

$$\varphi_{i}(z_{1},...,z_{n}) = c \sum_{j=1}^{n} \frac{\partial a_{i,j}(x_{1},...,x_{n},c)}{dc} x_{j} .$$
 (1.3)

The x are determined from n

$$z_i = \sum_{j=1}^{n} a_{ij} (x_1, \dots, x_n, c) x_j (i=1, \dots, n) (1.4)$$

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equations

where

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26462 s/140/61/000/003/008/009 On systems of ordinary differential ... C111/C333 definite, V(0,...,0) = W(0,..., 0) = 0. 2.) V and W are generalized-homogeneous, belong each to the class  $A(x_1, \ldots, x_n, c)$  and have the orders m - 6 and m. 3.)  $V(x_1, \ldots, x_n)$  is continuously differentiable along the integral curves of (2.1), where  $\frac{dV}{dt} = W$ . b.) If there exist functions V and W which satisfy the conditions 1.) - 3.), then the zero solution of (2.1) is asymptotically stable. Theorem 5: In order that the zero solution of (2.1) be asymptotically stable, it is necessary and sufficient that the domain of the asymptotic stability of the zero solution of  $\frac{dy_{i}}{dt} = -f_{i}(y_{1}, \dots, y_{n}, t - X_{i} y_{1}, \dots, y_{n}) \quad (i=1, \dots, n) \quad (3.16)$ is bounded. The functions  $f_i(y_1, \ldots, y_n, \tau)$  are determined from the following system of linear algebraic equations Card 9/10 

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26462S/140/61/000/003/008/009
On systems of ordinary differential... C111/C333  $B(Y,e^{T}) F(Y,T) = \phi(A(Y,e^{T}) Y), \qquad (3.17)$ where  $Y = \begin{pmatrix} y_1 \\ \vdots \\ y_n \end{pmatrix}, F = \begin{pmatrix} f_1 \\ \vdots \\ f_n \end{pmatrix}, \phi = \begin{pmatrix} \varphi_1 \\ \vdots \\ \varphi_n \end{pmatrix}.$ The author thanks V. J. Zubov for subject and guidance of the paper.
There are 3 Soviet-bloc references.
SUBMITTED: February 10, 1959
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24.2120	S/040/61/025/004/016/021 D274/D306		
AUTHORS :	Stepanov, K.N. and Khomenyuk, V.V. (Khar'kov)		
TITLE:	Notes on the energy principle in magnetohydrodynamics	3	
PERIODICAL:	Prikladnaya matematika i mekhanika, v. 25, no. 4, 1961, 760-763		
equations of motivations of motivations of motivations of motivations $\rho_{\xi_1}^{(\xi)}$ are $\rho_{\xi_2}^{(\xi)}$ where F denotes $F(\xi) = \nabla(\xi \cdot \nabla p) + \nabla(\xi \cdot \nabla p)$	s are proved on the stability of equilibrium states ducting fluid, by means of Lyapunov functions. The tion of an ideal, non-viscous, conducting fluid, lacements $\xi(\mathbf{r},t)$ from the equilibrium position, $\mathbf{I} = \mathbf{F}_{\mathbf{i}}(\xi)$ (i = 1,2,3) (1) a linear self-conjugated operator $-\gamma \nabla (p \text{ div}\xi) + \frac{1}{4\pi} (\text{rot rot}(\xi \times \mathbf{H}) \times \mathbf{H}) + \frac{1}{4\pi} \text{ rot } \mathbf{H} \times \mathbf{X} \text{ rot } (\xi \times \mathbf{H})$ hat the fluid occupies a finite volume V, bounded by	ł	a contraction of the second

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Notes on the energy ....

S, and that the density  $\rho$  and the displacements vanish on S. Eq. (1) has the energy integral E = T + U = const (2) where  $T[\xi] = \frac{1}{2} \int_{V} \rho \xi^2 dr$ ,  $U[\xi] = -\frac{1}{2} \int_{V} \xi F(\xi) dr$  (3)

Let  $\xi$  and  $\dot{\xi}$  be solutions of Eq. (1), satisfying the initial conditions  $\xi = \xi_0(r), \ \xi = \dot{\xi}_0(r)$  for t = 0

Further, stability. asymptotic stability, and instability are defined. Thereupon, theorem 1, (the necessary condition for stability) is formulated: In order that the equilibrium state  $\xi = 0$ ,  $\xi = 0$ be stable, it is necessary that  $U(\xi) \ge 0$ . The theorem is proved by reductio ad absurdum. It follows from the theorem that if there are  $\xi$ 's for which  $U(\xi(r)) < 0$ , then the considered equilibrium is unstable. It can be readily shown that the equilibrium state of an ideal non-viscous conducting fluid cannot be asymptotically stable. Further, the effect of viscosity on stability is investigated.

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Notes on the theory ...

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Theorem 2. If there us such a  $\frac{1}{2}$  (r) so that  $U(\frac{1}{2}(r)) < 0$ , then the equilibrium is unstable even in the presence of viscous forces. Again, the theorem is proved by an assumption leading to a contradiction. Theorem 2 is analogous to Kelvin's theorem on the effect of dissipation on stability of a system of material points. The functionals involved in the proof of both theorems are analogous to the Lyapunov functions used by N.G. Chetayev in his proof of stability theorems (Ref. 5: Ustoychivost' dvizheniya (Stability of Motion) Gostekhteorizdat, M., 1955). There are 11 references: 6 Soviet-bloc and 5 non-Soviet-bloc. The references to the Englishlanguage publications read as follows: S. Lundquist, On the Stability of Magneto-hydrodynamics. Ark. Fys. 1952, v. 5, no. 15; I.B. Bernstein, E.A. Friedman, M.D. Kruskal, R.M. Kulsrud, An energy principle for hydromagnetic stability problems. Proc. Roy. Soc., 1958, v. A244, no. 1236; A. Hare, The effect of viscosity on the stability of incompressible magnetohydrodynamic systems. Phil. Mag., 1959, v. 4, no. 48.

SUBMITTED: January 28, 1961

Card 3/3

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722220007-9"

# CIA-RDP86-00513R000722220007-9

38085 S/040/62/026/003/008/020 24.671 D407/D301 AUTHORS: Stepanov, K.N., and Khomenyuk, V.V. (Khar'kov) On stability conditions for magnetohydrodynamic equi-TITLE: librium configurations PERIODICAL: Prikladnaya matematika i mekhanika, v. 26, no. 3, 1962, 466 - 470 TEXT: Stability of an ideally conducting fluid is defined, the de-finition differing from that given by the authors in an earlier work Necessary and sufficient stability criteria are established, which are related to the well-known energy principle. With small displace-ments  $\xi(\mathbf{r}, \mathbf{t})$ , of the fluid, the equations of motion are  $\rho \ddot{\xi}_i = F_i(\xi) + f_i(\xi)$ (i = 1, 2, 3)(1.1) $\mathbf{F}(\boldsymbol{\xi}) = \nabla \left(\boldsymbol{\xi} \bigtriangledown p\right) + \gamma \nabla \left(p \operatorname{div} \boldsymbol{\xi}\right)$ where  $-\frac{1}{4\pi}$  H × rot rot ( $\mathbf{\ddot{\varsigma}}$  × H)  $+\frac{1}{4\pi}$  rot H × rot ( $\mathbf{\ddot{\varsigma}}$  × H) (1.2)  $f_i(\mathbf{v}) = \frac{\partial}{\partial x_k} \left[ \eta \left( \frac{\partial v_i}{\partial x_k} + \frac{\partial v_k}{\partial x_i} - \frac{2}{3} \delta_{ik} \frac{\partial v_l}{\partial x_i} \right) \right]$ (1.3)Card 

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On stability conditions for ...

 $\rho$ , p and H being the equilibrium values of the density, pressure and magnetic field,  $\gamma$  - the adiabatic index,  $\eta$  and  $\zeta$  - viscosity coefficients. The solutions of Eq. (1.1), satisfying the boundary and initial conditions, are denoted by  $\xi$ . Expressions are obtained for the kinetic- (T) and potential energy (U). The notations

······

$$\left[\rho_{1}\left\{\ddot{\varsigma}\left(\mathbf{r}\right)\right\}=\int \ddot{\varsigma}^{2} d\mathbf{r}+\alpha \sum_{k=1}^{n} \int \left(\frac{\partial \ddot{\varsigma}}{\partial x_{k}}\right)^{2} d\mathbf{r}, \quad \rho_{2}\left\{\dot{\varsigma}\left(\mathbf{r}\right)\right\}=\int \rho \dot{\varsigma}^{2} d\mathbf{r} \qquad (2.1)$$

are introduced. By definition, the equilibrium is stable, if for any positive  $\varepsilon$ , it is possible to find positive  $\hat{o}$ , so that if

 $\rho_1\left\{\bar{\varsigma}_0\left(\mathbf{r}\right)\right\} < \delta_1, \qquad \rho_2\left\{\bar{\varsigma}_0\left(\mathbf{r}\right)\right\} < \delta_2$ 

then for all  $t \ge 0$ 

 $[\rho_1 \{ \xi(t, r, \xi_0(r), \xi_0(r)) \} < e_1, \qquad \rho_2 \{ \xi(t, r, \xi_0(r), \xi_0(r)) \} < e_2$ 

Instability is also defined, as well as the positive-definite functionals V and T. Theorem 3.1: (The necessary stability-condition): In order than an ideally conducting inviscid fluid be stable, it is necessary that  $U(\xi) \ge 0$  for all allowed  $\xi(r)$ . Theorem 3.2: (The sufficient stability-condition): If  $U(\xi)$  is a positive-definite func-Card 2/3

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(2.2)

(2.3)

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On stability conditions for ...

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tional in the metric  $\rho_1(z)$ , then the equilibrium of the fluid is

stable. The theorem is proved. It is analogous to Lagrange's wellknown theorem, whose generalization was proposed by A.A. Movchan (in the references) in stability investigations of elastic systems and continua. Further, the stability of viscous ideally conducting fluids is considered. Two theorems and a corollary give the stability (respectively instability-) conditions. The theorems are analogous to Kelvin's well-known theorems on the effect of dissipative forces on the equilibrium of material systems. The most important English-language reference reads as follows: A. Hare, The effect of viscosity on the stability of incompressible magnetohydrodynamic systems. Phil. Mag., 1959, v. 4, no. 48.

SUBMITTED: December 2, 1961

Card 3/3

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	65         EWT(d)/EWP(*)/T/EWP(h)/EWP(k)/EWP(1)         Pf           N NR:         AP5011903         UR/0103/65/026/004/06	նում հետությունը հայտարական գործան 🖌 🖉 չինչ ամինչներին 💭 ֆիլիի
-	Baranov, A. Yu. (Leningrad); Khomenyuk, V. V. (Le	
	The solution of the linear problem of minimizing t rt space	he <u>quadratic functional</u> 16
SOURCE :	Avtomatika i telemekhanika, v. 26, no. 4, 1965, 6	15-620
TOPIC TAC trol, li	GS: quadratic functional minimum, Hilbert space f near minimizing problem	unctional, optimum con-
operator regions operator	Let $H_1$ , $H_2$ , and $H_3$ be real Hilbert spaces, A and s (V. I. Smirnov, Kurs vysshey matematiki, v. 5, H of definition D(A) C H <sub>1</sub> and D(B) C H <sub>2</sub> , respective while Ax $\in$ H <sub>3</sub> and Bu $\in$ H <sub>3</sub> if $x \in D(A)$ , $u \in D(B)$ , and nors study the equation $Ax = Bu + f_1$ .	12matg12, 1939), with 1y. B is a bounded $f \in H_3;   f   \angle \infty$ .
ment of	where x is the sought element in D(A), and control the convex closed set U $\subseteq$ D(B). Equation (1) is a for arbitrary control u $\subseteq$ U, i.e., there exists	ssumed to have a unique

REPRESENTATION NAMES NOT

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	SOURCE CODE: UR/0103/66/000/003/0005/001
AUTHOR: Khomenyuk, V. V.	(Leningrad)
ORG: none	interning aut ) 36 jul B
TITLE: Synthesis of progr nate	ammed control in a linear system based on a single coordi-
SOURCE: Avtomatika i tele	nekhanika, no. 3, 1966, 5-17
TOPIC TAGS: linear automa and D	tic control, automatic control design, automatic control H
tions and restraints for t gle coordinate. Such a sy equations	bof of several control theorems, the author analyzes condi- the synthesis of a control in a linear system based on a size that the described by a system of ordinary differential $t_{j=1}^{r} B_{j}(t)u_{j}(t) + F(t)$ , (1)
and initial conditions X(0	$f = X_0$ , where $A(t)$ is a square $n \times n$ matrix, $F(t)$ and $B_{i}(t)$
$(j=1,\ldots,r)$ are <i>n</i> -dimension piecewise continuous and g	) = $X_0$ , where $A(t)$ is a square $n \times n$ matrix, $F(t)$ and $B_j(t)$ bal vectors. The elements in these matrices are essential iven for $[0,T]$ function; $u(t)$ is also essentially piecewis and satisfies $u_j(t) < 1$ $(j=1,,r)$ . $T > 0$ is the fixed

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	12,13/ 5	L2,13/ SUBM DATE:	12,13/ SUBM DATE: 120ct65/	12,13/ SUBM DATE: 120ct65/ ORIG	12,13/ SUBM DATE: 120ct65/ ORIG REF:	12,13/ SUBM DATE: 120ct65/ ORIG REF: 002	L2,13/ SUBM DATE: 120ct65/ ORIG REF: 002

	L 16113-66 $EEC(k)-2/EMP(k)/EMT(d)/EMP(h)/EMP(1)/EMP(v) EC$	
•	ACC NR: AF5025115 SOURCE CODE: UR/0208/65/005/005/0894/0902	
•••	AUTHOR: Baranov, A. Yu. (Leningrad); Kazarinov, Yu. F. (Leningrad); Khomenyuk, V. V. (Leningrad) ORG: none	
	TITLE: Gradient methods for solving problems of <u>terminal guidance in</u> <u>linear systems of automatic control</u>	
	SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 5, no, 5. 1965, 894-902	
	TOFIC TAGS: linear automatic control system, terminal guidance, vector function, ordinary differential equation, function theory ABSTRACT: The authors consider the problem of minimizing the strongly convex functional of the terminal stage of an object whose motion is described by a linear	· · · ·
	system of ordinary differential equations $\frac{dX(l)}{dl} = A(l)X(l) + \sum_{i=1}^{l} B_i(l)u_i(l) + f(l)$	
	with initial conditions $X(0) = X^0$ , where $X$ , $B_j$ $(j = 1,, r)$ , f are n-dimensional vectors with respective coordinates $x_1,, x_n$ ; $b_{1j},, b_{nj}$ ; $f_1,, f_n$ , and	
	Card 1/2 UDC: 518:51:62-50	2

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