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NITTORF, M.V. MARAMZIN, Aleksandr Vasil'yevich; YEMNDIAYWV, Vasiliy Mikhaylovich; <u>UTTORF M.V.</u>, redaktor; PEMIDIOV, S.V., redaktor; OENAD'YEVA, I.M., tekhnicheskiy redaktor [Drilling structural and exploratory wells] Burenie strukturnopoinkovykh skvazhin. Jeningrad, Gos.nauchen-tekhn. isd-vo neftianoi i gorno-toplivnoi lit-ry, 1955. 363 p. (MIRA 9:3) (Boring machinery) (Oil well drilling)

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CIA-RDP86-00513R001860130002-0

VITTORF, M.V.

Basic trends in the development of drilling and mining machine manufacturing. Trudy VITR no.1:359-365 '58. (MIRA 12:1) (Mining machinery)

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Y. Differ Marrie and accre		<u> </u>
	skoplya, v. 18, no. 4, 1965, 622-627 fluorescence, borate, luminor, emission spectrum, activa-	



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ACCESSION NR: AP5006429	8/0051/65/018/003/04 54/04 57 327 -1
tor, borate compound, group 11 classic ABSTRACT: The method of line fluorescence of (Ergebn. Exakt. Naturwiss. v. 20, 268, 1942),	frare-earths, proposed by R. Tomaschek is used for an analysis of the emis- rour of the periodic system, which can
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L 1,3881-65 ACCESSION NR: AP5006429	/
the state tenders have to therefore anti-type	ed with lead and thallium. The fats are used
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Ovanesov, G. P., Vitugin, P. I. AUTHORS:

Prospecting for oil in Famennian deposits of Bashkiriya

Geologiya nefti i gaza, no. 5, 1960, 6-9 PERIODICAL:

TEXT: In February 1957, it was for the first time determined that the oil occurrence in the upper Famennian deposits in Bashkiriya are of industrial importance. A continuous yield of 30 tons/24 h from different drillings indicates that the entire Tuymazy-Serafimovskoye area is prospective with regard to Famennian oil. In various fields the occurrence of oil was discovered in the carbonate deposits of the Devonian and Carboniferous layers, so that it is absolutely necessary to intensify prospecting on the Bashkir plateau. The oilfield Subkhankulovskoye, the best known deposit with accumulations in the carbonate is tentatively being exploited. This oilfield has a typical plateau structure in a southwest to northeast direction; the fold has two domes. 19 drillings were made, 12 of them yielded such amounts of oil that an industrial utilization is possible. The Famennian oil is approximately three times less viscous than oil from

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Prospecting for oil in Famennian ...

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the carbonaceous layer of the Serafimovskoye oilfield and contains less sulfur. As a rule, the oil is deposited between the individual layers of cracked limestone. It is difficult to determine the water-oil contact, as at the same intervals oil was obtained from some wells without water and from others oilfield water without oil was obtained. It is possible that the oilfield water penetrates from other zones or through fissures into the lower layers; it is also possible that water bearing horizons are present in the lower Famennian layers. From these findings the authors conclude that oil occurrences in the carbonate deposits are of peculiar type and difficultly to be exploited. At present, promising oil bearing carbonate deposits are being determined according to the findings of the drilling, such as core or oil in the washing fluid. The sinking of the bore holes is also difficult as the washing fluid penetrates into the fissures of the productive part of the cross section and obstructs them. Research institutes and industrial organisations have until now devoted too little attention to the carbonate rock formations and their oil bearing characteristics. Reliable geophysical methods for the determination of individual porous parts and for estimating the oil bearing characteristics are necessary and also the carbonate layers must be more

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s/009/60/000/005/002/003 в027/в076 Prospecting for cil in Famennian... carefully studied. There are 2 figures. ASSOCIATION: Bashneft', Oktyabr'skneft' Card 3/3

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OVANESOV, G.P.; VITUGIN, P.I.; YEFREMOV, Ye.P.

Results of forced production of the layer D_{II} of the Konstantinovskoye field. Geol. nefti i gaza 6 no.6:12-16 (MIRA 15:6) Je '62.

1. Bashkirskoye TSentral'noye neftyanoye upravleniye i Neftepromyslovoye upravleniye Oktyabr'skneft'. (Bashkiria-Petroleum geolog;)

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OVANESOV, G.P.; VITUGIN, P.I.

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Prospecting for oil in Famenennian sediments of Bashkiria. Geol. (MIRA 13:9) nefti i gaza 4 no.5:6-9 My '60.

1. Ob"yedineniye Bashkirskoy neftyanoy promyshlennosti i Oktyabr'sk-(Bashkiria-Petroleum geology) neft'.

MPROVED FOR RELEASE: 09/01/2001 CLARDPS6-00513R001860130002-0 VITUKEVICH, E.K., kand. 01010g. nauk In the quarantine imboratories of the Ukraine. Zashch. rast. ot vred. i bol. 8 nc.10148-49 0 '63. 1. Ukrainskaya karantinnaya laboratoriye.

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ananderstatie exer VITUKEVICH, E.R., kand.biolog.nauk Causes of crinosis on potato tubers. Zashch.rast.ot vred.i bol. (MIRA 15:11) 1. no.6:53 N-D 159. (Potatoes--Diseases and pests) GA142

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USSR/Plant Diseases	. Diseases of Cultivated Plants	0-3
	- Biol., No 20, 1958, NJ 91963	
	m Scientific Research Institute .	
	tr. Ukr. ni. in-to ovoshchevod 57-263	stva i kartofelya, 1957,
dry rot solani avenace vide te humidit percent	uly identified the group of fungi in Khar'kovskeye Oblast: Fuseriu v. eunartii, F. sambucinum v minu un. The agents of dry rot are abl amerature limits (from 2 to 35°), by (from 40 to 70 percent) and CO c). The optimum conditions for the st temperature 17-25°, relative he bove 70 percent and a free inflow	is, F. soloni, F. e to develop within , wide limits of , concentration (to 30 heir development are as midity of the air -
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•	PHASE I BOOK EXPLOITATION SOV/6246	
· 5	oveshchaniye po tseolitam. 1st, Leningrad, 1961.	•
	inteticheskiye tseolity; polucheniye, issledovaniye i primeneniye (Synthetic Zeolites: Production, Investigation, and Use). Mos- cow, Izd-vo AN SSSR, 1962. 286 p. (Series: Its: Doklady) Errata slip inserted. 2500 copies printed.	·
, 5	ponsoring Agency: Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk. Komisiya po tseolitam.	
F	esp. Eds.: N. M. Dubinin, Academician and V. V. Serpinskiy, Doctor of Chemical-Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P. Golub'.	•
· 1 -	URPOSE: This book is intended for scientists and engineers engaged in the production of synthetic zeolites (molecular sieves), and for chemists in general.	•
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	Synthetic Zeolites: (Cont.)	80V/6246	
•	COVERAGE: The book is a collection of reports presented at Conference on Zeolites, held in Leningrad 16 through 19 at the Leningrad Technological Institute imeni Lensovet, purportedly the first monograph on this subject. The re- grouped into 3 subject areas: 1) theoretical problems tion on various types of zeolites and methods for their gation, 2) the production of zeolites, and 3) applicat zeolites. No personalities are mentioned. References i dividual articles.	March 1961 , and is ports are of adsorp- investi- ion of	•
1 1	TABLE OF CONTENTS :		
: · ·	Foreword	3	. • .
•	Dubinin, N. M. Introduction	5	•
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Synthetic Zeolites: (Cont.)	001/0240	
Misin, M. S., L. M. Maksimova, V. A. Litvinova, and L. B Khandros. Production and Adsorption Properties of NaA, NaP, CaA and CaP Zeolites	135	
Misin, M. S., L. M. Maksimova, V. A. Litvinova, L. B. Khandros, G. A. Polyakova, and L. S. Urin. Production and Adsorption Properties of NaX, CaX, and AgX Zeolite	n • 143	
Biguzova, L. I., A. V. Agafonov, A. S. Vitukhina, Y. F. Dmitriyeva, A. T. Slepneva, V. A. Burylov, and N. A. Chepurov. Synthesis Conditions and Thermal Stability of Type X Zeolites	152	•
Mirskiy, Ya. V., N. G. Mitrofanov, and T. N. Bredikhina. Exchange of Na for Ca in Type A Synthetic Zeolite	167 167	f F
Mirskiy, Ya. V., N. G. Mitrofanov, B. M. Popkov, <u>L. T.</u> Bolotov, and <u>A. I. Mezhlumova</u> . Froduction of Synthet Zeolites Under Industrial Conditions	1c 169	•
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ACCESSION NR: AP3001666 S/0065/63/000/006/0017/0021
AUTHOR: Piguzova, L. I.; Vitukhina, A. S. 58
TITLE: The preparation of sorbent CaX (10X) and its catalytic properties
SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1963, 17-21
TOPIC TAGS: sorbent physicochemical properties, Na ions
ABSTRACT: A sorbent of the type CaX was prepared from NaX (13X) by means of excharging Na for Ca ions. The conditions of the full cationic exchange in the synthesis of the molecular sieves of the type CaX (10X) has been determined. It was shown that with an increase of the degree of exchange of Na to Ca, the volume of adsorption based on 1,3,5-triethylbenzene decreases. Conditions are established whereby it is possible to obtain a CaX sorbent with an increased thermal stability for use in adsorption of water. The most useful and most rational method for the quality control of the sorbents of the type NaX and CzX and for the evaluation of their properties is the sorption of 1,3,5-triethylbenzene.? It was shown that the catalytic activity of the molecular sieves of the type CaX in the cracking reaction of n-decane can be high and also stable. It increases in accordance with the degree of catalytic exchange volume of Na ions in the Cat $1/p'$

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MINACHEV, KELH., GARANEN, V.I., FILO. X., E.I., <u>VIEUNEIDA, A.C.</u> Incomprimented of n-barane on the (-structure noise.in sieves containing polladium. Tav.AN SUR. Ser.khim, ne.3:110-133 MG. (MIRA 19-1) 1. Institut organichoskoy bhiwii im. N.D.Zelinskogo AN SSCR. Submitted August 5, Med.

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	Card	: 1/1
	Authors	: Ryss, I. G. and Vitukhnovskaya, B. S.
4	Title	: Potassium and ammonium hexafluoromanganiates
	Periodical	: Dokl. AN SSSR, 97, Ed. 3, 471 - 473, July 21, 1954
	Abstract	: Experiments, for the purpose of obtaining K-and Am-hexafluoromanganiates by the introduction of a Mn-trifluoride solution into the concentrated fluoride solutions with consequent filtration and washing of residues, are described. Formation of hexafluoromanganiates was observed during continuous agitation of pentafluoromanganiates with concentrated fluoride solutions. The change in composition of the solid phase was determined by the change in color and crystal forms, and the composition of the cry- stals was established by the radicals method. Five references: 4-USA since 1887 and 1-USSR. Table, graphs.
÷.	Institution	: The I. V. Stalin Metallurgical Institute, Dnepropetrovsk
	Presented by	: Academician, I. I. Chernyaev, March 26, 1954
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THE PROPERTY AND A DESCRIPTION OF THE PROPERTY VITUKKNOVSKAYABS. • Finn 5 The hydration and solubility of <u>manganese</u> fluoride. <u>I. G. Ryss and B. S. Vitekhuwskaya</u> (Met. Inst., Daepra-petrovsk). Zhin-Obricher Rhim, 25, 613-7(1965).—A method is described for the direct synthesis of manganese fluoride tetrahydrate (MnR₁,4H₁O) by dissolving the cur-bonate in dil. HP at 0°. The soly, polytherms are given for MnF₂ and MnF₂,4H₂O. These have a common point at 23.5°. The transition from one form to the other occurs very slowly. The heart of sola, of MnF₂ and of MnF₂. USSR. 4H_cO were found to be equal to 5.22 and -3.75 kcal./ mole, resp. The heat of hydration of MnF, was caled, to be 8.97 kcal./mole and the heat of dispense of the tetrahydrate, was caled, as -51.01 kcal./mole. I. howtar Leach متح , a 2 6 9

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VERHOV, V.A.; VITUKHNOVSKAYA, B.S.; DORONKINA, R.F.

Changes in solubility of germanium dioxide in water with an increase in temperature from 0 to 100°C. Izv.vys.ucheb.zav.; khim.i khim.tekh. 7 no.6:1018-1019 '64.

(MIRA 18:5)

1. Dnepropetrovskiy metallurgicheskiy institut, kafedra obshchey i neorganicheskoy khimii.

APPROVED FOR RELEASE: 09/01/2001

VITUKHNOVSKAYA, B. S., Cand of Chem Sci -- (diss) "Investigation of certain flourides of two and valent manganese." Dnepropebrovsk, 1957 12 pp (Dnepropetrovsk Chemical-Engineering Institute im F. E. Dzerzhinskiy), 200 copies (KL, 31-57, 104)

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(2) AUTHORS:	Ryss, I. G., Vitukhnovskaya, B. S. SOV/75-14-3-11/29
fitle:	Titrimetric Determination of Manganese After Its Oxidation to Trivalent State (Titrimetricheskoye opredeleniyo margantsa posle okisleniya do trekhvalentnogo sostoyaniya)
PERIODICAL:	Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 3, pp 318-321
ABSTRACT :	(USSR) A simple method is described for the determination of Mn ²⁺ ions, which is based on the formation of fluoro manganate. The first experiments with KNO ₃ as oxidizing agent in the
	presence of HF indicated that the oxidation of Mn^{2+} does not proceed quantitatively. With ammonium nitrate however exact results were obtained (Table 1). The determination of the fluoro manganate formed can be carried out iodometrically or by means of titration with Mohr's salt. Fe ²⁺ -ions do not disturb. In the presence of Cr^{3+} the dissolution and reduc- tion of the precipitate of CrF_3 . MnF ₃ . 6H ₂ O is accelerated by addi-
Card 1/2	tion of boric and hydrochloric acid and the titration thus proceeds undisturbed. If Fe^{2+} and Cr^{2+} occur together, only the titration with Mohr's salt is possible (Table 3). The presence of Co^{2+} (up to 250 mg) or Ni ²⁺ (up to 70 mg) does

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SOV/75-14-3-11/29 Determination of Manganese After Its Oxidation to Trivalent
not disturb the iodometric determination of manganese (Table 4). The analysis was tried with ferromanganese alloys and yielded satisfactory results (Table 5). There are 5 tables and 9 references, 5 of which are Soviet.
Dnepropetrovskiy institut inzhenerov zheleznodorozhnogo transporta (Dnepropetrovsk Institute of Railway Engineers). Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgical Institute)
May 13, 1957

RYSS, I.G.; VITUKHNOVSKAYA, B.S. And the second Cerium and chromium fluoromanganates. Zhur. neorg. khim. 3 no.5:1185-1187 My '58. (MIRA 11:6) (Cerium compounds) (Chromium compounds) (Complex compounds)

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70-3-5-21/39

AUTHORS:	Ryss, I. G., Vitukhnovskaya, B. S.
TITLE:	Cesiun-andC corium Manganic Fluoride(Ftoromanganiaty tseziya i khroma)
PERIODICAL:	Zhurnal Heorganicheskoy Khimii, 1958, Vol 3, Hr 5, pp 1185 - 1187 (USSR)
ABSTRACT :	The syntheses of $Cs_2MnF_5 \cdot H_2O$ and $MnF_3 \cdot CrF_3 \cdot 6H_2O$ were carried out. $Cs_2MnF_5 \cdot H_2O$ has light rose-colored crystals and is very easily decomposable with water. $MnF_3 \cdot CrF_3 \cdot 6H_2O$ forms difficultly soluble lilac crystals. Their composition was determined by means of chemical analyses. The gradual for- mation constant of the above-mentioned complexes was cal- culated. In aqueous solution, the following complexes can simultaneously exist:
Card 1/2	$\left[\operatorname{CrF}_{2}(\operatorname{H}_{2}\operatorname{O})_{4}\right]^{\dagger}$ and $\left[\operatorname{LrF}_{4}(\operatorname{H}_{2}\operatorname{O})_{2}\right]^{-}$.

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VITUKHNOVSKAYA, M.S.

Determination of an economically expedient concentration of nitric acid used in the production of ammonium nitrate. Zhur. prikl. khim. 38 no.5:967-971 My '65. (MIRA 18:11)

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VITUKHNOVSKAYA, M.S.; BELYANSKAYA, Ye.A.

Use of reductants for the regeneration of spent sulfuric acid. Zhur. prikl. khim. 33 no.11:2427-2434 N '60. (MIRA 14:4)

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VITUKHNOVSKAYA, M. S.

Vitukhnovskaya, M. S. - "The problem of the preparation of hydrogen peroxide on a crude coal-tar base," Authors: M. B. Kartsynel', R. B. Yampol'skaya, <u>M. S.</u> <u>Vitukhnovskaya</u> and M. A. Dokukin. Nauch. zapiski (Dnepropetr. gos. un-t), Vol XXXIII, 1948, p. 43-45

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

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SIBLIKOVA, O.; VACHEK, J.; CERNA, M.; TESAREK, B.; VITULOVA, V.

Contribution to the metabolism of ketophenylbutazone. I. Cesk. farm. 11 no.3:118-123 Mr '62.

1. Vyzkumny ustav pro farmacii a biochemii, Praha Vyzkumny ustav chorob revmatickych, Praha. (PHENYLBUTAZONE rel cpds)

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LENOCH, F. prof. dr., DrSc.; VITULOVA, V.; HAVELKA, S.; SUSTA, A.

Secondary gout in hematopoietic diseases. Cas. lek. cesk. 104 no.14:387-391 9 Ap :65.

1. Vyzkumny ustav chorob revmatickych v Praze (reditel: prof. dr. F. Lenoch, DrSc.)

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VITUZO	STEPAN, J.; VOJTISEK O.; DOSTAL, C.; VITULOVA, V.	
	Research Institute for Rheumatic Diseases (Vyskumny ustav chorob revmatickych) Prague, director: Frof. Dr. F. Lenoch, DSe Prague, Tysiatricky Vestnik, No 1, 1963, pp 13-18	
	"On the Late Reaction to Exogenous ACTH in Rheumatic Patients"	
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VITULOVA, V.; MARTINEK, K.

respondent (properties and respectively and respectively and respectively and respectively and respectively and

An uncommon complication of gold therapy. Fysiat. vesta. 43 no.6:356-359 D * 65.

1. II. interni klinika (prednosta: prof. dr. J. Polcak) a III. interni klinika (prednosta - prof. dr. Pojer) lukurske fakulty University J.E. Purkyne, Brno.

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VITULOVA, V.; VOTAVA, L.

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Diabetic neurogenic arthropathy. Fysiat. vestn. 43 no.62360-363

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1. II. interni klinika lekarske fakulty University J.E. Purkyne, v Brne (predmosta: prof. dr. J. Polcak).

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GOGUADZE, V.P.; IVANOV, T.N.; MITUL'SKAYA, N.V.; KVESELAVA, V.N.; NATROSHVILI, D.R.; PANEVELAGEVILI, A.G.

> Solubility of hydroxylamine sulfate in cyclohexanone ar the separation of the cyclohexanone oxime complex system (MIRA 18:5)

1. Institut priklednov khlati i elektrokhimii AN GruzSSR, Ibilisi. Submitted June 15, 1964.

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GOGUADZE, V.P.; IVANOV, T.N.; VITUL'SKAYA, N.V.; NATROSHVILI, D.H.; KVESELAVA, 7.M.

> Permanganate number, fusibility, and refractive index of the system E-caprolactam - cyclohexanoxime. Soob. AN Gruz. SSR 38 no.2:303-308 My 165. (MIRA 18:9)

1. Institut prikladnoy khimii i elektrokhimii AN GruzSSE, Tbilisi. Submitted June 15, 1964.

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VITUSHINSKIY, V.I., prof.; GUGLIN, E.R., kand.med.nauk; NEDOGODA, V.V. Posttraumatic chronic aneurysm of the heart. Kaz.med.zhur. no.5: 59-60 8-0 °60. (MIRA 13:11)

(HEART--DISEASES)

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VITUSHINSKIY, V.I.; IVANOV, N.P. (Stalingrad) Intrapericardial cardiac teratoma in a newborn. Arkh.pet. 21 no.4: 71-72 '59. (MIRA 12:12) 1. Iz kafedry patologicheskoy anatomii (zav. - prof. V.I. Vitushinskiy) Stalingradskogo gosudarstvennogo meditsinskogo instituta. (HEART, neoplasms, tertoma in newborn (Rus)) (TERTOMA, in inf. & child, heart, in newborn (Rus)) (INFANT, NEWBORN, dis. teratoma of heart (Rus)) 7 g er sie er

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USSR / Hun	an and Animal Physiology. Blood Chemistry.	\mathbf{T}
Abs Jour	: Ref Zhur - Biol., No 15, 1958, No. 69991	
Author Inst Title	: Vitushinskiy, V. I.; Sergeyenko, I. I. : Stalingrad Medical Institute : Changes in the Bone Marrow in Dogs Following Massive Hemorrhage with Subsequent Injuction of Specific Serum	
Orig Pub	: Sb. nauchn. rabot teor. i klinich, kafodr. Stalingr. med in-ta, Stalingrad, 1956, 37-43	L.
Abstract	: Five dogs were subjected to loss of blood equal to three to five percent of the body weight. Within 30-60 min th dogs were transfused with specific serum "hemoinfusion" (H) to a volume equal to the amount of blood lost. The bone marrow (BM) was studied prior to and seven to eight days after the injection of the H, while in two survivin dogs, the marrow was studied in 12-15 days. Following transfusion of H, the BM showed an increase in the number	не : • 6
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VITUSHKIN, A.G.

> Thirteenth Hilbertian theorem. Dokl.AN SSSR 95 no.4:701-704 (MIRA 7:3) Ap 154.

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. (Functions, Analytic)

VITUSHKIN, A.	Ġ.		
USSR/Hathen	nati	CIJ	
Card	:	1/1	
Authors	:	Vitushkin, A. G.	
Title	1	Detenmination of set variations and the metric has of duality	
Periodical	:	Dokl. AN SSSR, 96, Ed. 5, 893 - 896, June 1954	
Abstract	1	The article deals with generalization of the concept on variations of the Kronard's functions with two variables and formulation of the metric law of duality. Two definitions are given for variations of subsets in the Euclidian space (inductive and constructive variations) and,	• * *
		applying the terms used in the definitions of the variations of func- tions, formulates the metric law of dualities.	
Institution	:	••••	
Presented	:	Academician, A. N. Kolmogorov, March 24, 1954	

	TUSEKIN, A. C		
	USSR/Mathem	atic	S
	Card	:	1/1
	Authors	• • •	Vitushkin, A. G.
	Title		Variations of functions of many variables and satisfactory conditions for their limitedness.
	Periodical	:	Dokl. AN SSSR, 96, Ed. 6, 1089 - 1091, June 1954
-	Abstract	3	Various theories are cited with respect to the variations of functions of many variables and the conditions for their limitedness. According to the Banach theory a single variation V_1 (f) for a continuous function $f(x_1)$ determined on a certain section is numerically equal to the change of $f(x_1)$ on this section. It is thus evident that a single variation of a function is identical to the linear A. S. Kronrod variation. One refer- ence.
	Institution	:	The M. V. Lomonosov State University, Moscow
	Presented by	:	Academician A. N. Kolmogorov, March 24, 1954

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L V	VITUSHKIN A.G. (Ainatoling Georgiyevich)				
	Ve Vituškin, A. G. O mnogomernyh variacivali 10n /1 nevitalimeta ord tribuline 1055 2000 totat.				
	TehnTeor. Lit., Moscow, 1955. 229 pp. 5.65 raides The central filling of this tract is the file with which				
	and ∞ for all smaller 4. One rather more satisfactory string of α_{i} , which the earther dogs not ingention, and which are still related by inequalities, is furnished by the cross-section integrals (Quernassintegrale) of the theory of convex figures: the latter have been extended to sets by Obviewed West and Electric latter by 122 and 122				
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VITUSH	KIN	,A
USSR/ Mathe	matics	- Urygohn's problem
Card 1/1	:	Pub. 22 - 1/50
Authors	:	Vitushkin, A.
Title	:	Remarks on the Sitnikov solutions of a Urysohn problem
Periodical		Dok. An SSR 100/1, 5-8, Jan. 1, 1955
Abstract		An analysis is presented of the Situkov negative answer (solution) to the Urysohn question as to whether every (n-1) dimensional set
Abstract		to the Urysohn question as to whether every (n-1) dimensional set can cut a ball of an n-dimensional Euclidean space in such a way that there would be a pair of points which cannot be connected with a plair curve by any continuum. It was found that the Sitnikov solution would turn into a positive solution, if one considers the cutting of this ball from a homological point of view. A series of lemmes are proved in order to get a positive solution of the Urysohn problem even in
Abstract		to the Urysohn question as to whether every (n-1) dimensional set can cut a ball of an n-dimensional Euclidean space in such a way that there would be a pair of points which cannot be connected with a plair curve by any continuum. It was found that the Sitnikov solution would turn into a positive solution, if one considers the cutting of this ball from a homological point of view. A series of lemmes are proved in order to get a positive solution of the Urysohn problem even in such cases where the cutting of the ball is considered in the theo- retically-sot sense (topological). Two USSR references: (1952 and
Abstract Institution		to the Urysohn question as to whether every (n-1) dimensional set can cut a ball of an n-dimensional Euclidean space in such a way that there would be a pair of points which cannot be connected with a plair curve by any continuum. It was found that the Sitnikov solution would turn into a positive solution, if one considers the cutting of this ball from a homological point of view. A series of lemmes are proved in order to get a positive solution of the Urysohn problem even in such cases where the cutting of the ball is considered in the theo-
		to the Urysohn question as to whether every (n-1) dimensional set can cut a ball of an n-dimensional Euclidean space in such a way that there would be a pair of points which cannot be connected with a plair curve by any continuum. It was found that the Sitnikov solution would turn into a positive solution, if one considers the cutting of this ball from a homological point of view. A series of lemmes are proved in order to get a positive solution of the Urysohn problem even in such cases where the cutting of the ball is considered in the theo- retically-sot sense (topological). Two USSR references: (1952 and 1954).

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VITUSHKIN', A. G. Cand Phys-Math Sci -- (diss) "Variations of the Sufficient Functions of Many Variables and Adoptete Conditions for Their Limitedness." Restriction." Mos, 1957. 6 pp 22 cm. (Mos State Univ im M. V. Lomonosow), 130 copies (KL, 25-57, 108) - 6, -



VITUSHKIN, A. G., Doc Phys-Math Sci -- (diss) "On the difficulty of the task of tabulating." Mos, 1957. 18 pp (Acad Sci USSR, Math Inst im V. A. Steklov), 125 copies (KL, 52-57, 102)

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20-114-4-3/63

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AUTHOR:	Vitushkin, A. G., The Connection Between Variations of a Set and the Metric The Connection Between Variations of a Set and the Metric
TITLE :	The Connection Between Variations of a Set and the northestwa Properties of Its Complement (Svyaz' variatsii mnozhestwa s metricheskimikvoystvami dopolneniy) boklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 4, pp. 686-689 Loklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 4, pp. 686-689
PERIODICAL	(USSA) (USSA) (USSA) (USSA) (USSA)
ABSTRACT :	The present paper precisely explains results obtained previous (USSA) The present paper precisely explains results obtained previous (A.G. Vitushkin: O mnogomernykh variatsiyakh (On multidimensio- (A.G. Vitushkin: O mnogomernykh variatsiyakh (On multidimensio- nal variations), Moscow, 1955), which express the connection nal variations), Moscow, 1955), which express the connection between the variation of a set and the metric properties of its between the variation of a set and the metric properties of its completment. The following is proved: If a set approximates completment. The following is proved: If a set approximates another set with sufficient accuracy, the variations of the first set have to be large compared with the entropy of the sec- first set have to be large compared with the entropy of the sec- first set. Such results lead to some interesting evaluations of the theory of tabulation. Two theorems and 6 lemmata are given the theory of tabulation. Two theorems and 6 lemsta are given and also their proofs are carried out or at least indicated. There are 3 references, 3 of which are Slavic.
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The Connection Between Variations of a Set and the Metric 20-114-4-3/63 Properties of Its Complement

ASSOCIATION: Moscow State University imeni M.V. Lomonosov (Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova)

PRESENTED: December 26, 1956, by A.N. Kolmogorov, Member of the Academy

SUBMITTED: December 25, 1956

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VITUSH	KIN 1 20-5-2/(0)	
AUTHOR TITLE	VITUSHKIN, A.G. Some Estimates from the Tabulation Theory (Nekotoryye otsenki iz teorii tabulirovaniya. Russian) (Nekotoryye otsenki iz teorii tabulirovaniya. Russian)	9_926(IJ.S.S.Z.)
WERIODICAL	Doklady Akademili Nauk booky - , , , , , , , , , , , , , , , , , ,	given. This
ABSTRACT	Let the function f of a certain family be assumed as a function f must be introduced into the memory of a mach table of p numbers must be set up, by means of which it to set up f with the assumed accuracy. Not more than k operations are necessary for computation. From the defi- entropy $H_{\mathcal{E}}(F) = \log N_{\mathcal{E}}(F)$ the following is satily ob case of an arbitrary manner of expressing the function we know that it belongs to F) not less than $p \gg H_{\mathcal{E}}(F)$ charges are necessary for its accumulation. It is usual tance to know not only the amount of the information of the object to be studied, but also the degree of complet this information is given. In the case of the simplest spaces it is necessary that the amount p of the real F be accumulated and the number k of the elementary of an must be of an accuracy of up to \mathcal{E} for the purpose of function from F), satisfy the inequation p.log $\gg AH_{\mathcal{E}}$ denotes an absolute constant. The problem under inves- then formulated in a more concrete form. The most nature	of the simplest inition of the tained. In the (from which F) double dis- ully of impor- contained in exity with which t functional parameters to rations (which computing the (F). Here $A > 0$ tigation is
Card 1/2	then fomulated in a more concrete room a	
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SHORIZAN DINASARAN DINA TUEN	nenningen anvenderen eine Bernster einen sonnen in einen einen einen einen einen einen einen einen einen einen Annen bezultet einen zur einen ein Annen einen eine	

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Some Estimates from the Tabulation Theory

tabulation are apparently an ε -representation in the here defined sense. Actually, every method of this kind is reduced to the following. By means of arithmetical operations an assumed group of formalae is calculated with several assumed parameters. The values obtained are compared with an assumed set of constants, or these values are compared among themselves. In dependence on the results obtained by these comparisons some of the computed parameters are inserted into any of the assumed groups of formulae etc. If this process is repeated several times, the desired result is obtained. Such methods apparently fit into the framework of the definition given. The author then discusses a certain ε -representation of the family F. Three pertinent theorems are given and proved (No illustrations).

ASSOCIATION PRESENTED BY SUBMITTED AVAILABLE

Not given VITUSHKIN, A.G., Member of the Academy 25.12.1956 Library of Congress

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TITLE: Absolute E-Entropy of Metric Spaces (Absolyutnaya metricheskikh prostransty)	E-entropiya
7266	
PERIODICAL: Doklady Akademii Nauk, 1957, Vol.117, Nr 5, pp.745-7	
ABSTRACT: The author completes and improves Kolmogorov's de [Ref.1] of the <i>E</i> -Entropy of metric spaces and giv tions of the <i>E</i> -Entropy for some classes of funct author unfortunately chooses - without evident re denotations deviating from those of Kolmogorov, s comparison with [Ref.1] is complicated. The autho does not only succeed in giving the order of the of the size of table, but also the bound itself. references are quoted.	ions. The ason - new o that the r, however, lower bound
PRESENTED: By A.N. Kolmogorov, Academician, 19 October 1957	
SUBMITTED: 1 August 1957	
AVAILABLE: Library of Congress	

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GAL'PERN, S.A. (Moskva); LOPSHITS, A.M. (Moskva); BALK, M.B. (Snolensk);
ZHAROV, V.A. (Yaroslavl'); BYAKIN, V.I. (L'vov); ARHOL'D, V.I. (Moskva); MANIN, I.Yu. (Moskva); DYNKIN, Ye.B. (Moskva); PROIZ-VOLOV, V. (Moskva); ALEKSANDROV, A.D. (Leningrad); VITUSHKIN, A.G. (Moskva). Problems of elementary mathematics. Mat. pros. no.3:267-270 '58. (Mathematics--Problems, exercises, etc.) (MIRA 11:9)

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TAP LANGAMENTALINATINA TEMPETATA

TITLE: On Best Approximations of Differentiable and Analytic Func- tions (O nailuchshikh priblizheniyakh differentsiruyemykh	
i analiticheskikh funktsiy)	
PERIODICAL: Doklady Akademii Nauk, 1958, Vol 119, Nr 3, pp 418-420 (USSR)	
PERIODICAL: Doklady Akademii Ruddy by f ABSTRACT: The present paper is a continuation of the author's investi- gations formerly published [Ref 1,2] . Let E_r^z be the space of the complex variables z_1, \ldots, z_r ; g a subset of E_r^z , F a set of complex functions on g. Let $\{f_{ab}, \ldots, a_n\}$ and	
$\left\{ \varphi_{\beta_1,\ldots,\beta_m} \right\}$, $\sum_{i=1}^n \alpha_i \leq s$, $\sum_{j=1}^m \beta_j \leq s$ be two given finite function sequences; furthermore let be $f \in F$. Let $e_{s,n,m}^f(F)$ denote the greatest lower bound of the norm of	
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On Best Approximations of Differentiable and Analytic Functions

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On Best Approximations of Differentiable and Ana-
Note Functions
$$e_{s,n,m} (F_{p+n}) \neq \left(\frac{A(F_{p+n})}{(n+m+1)lg_2(2+s)}\right)^{(p+n)/r}$$
where the constant $A(F_{p+n}) > 0$ only depends on p, α , l, c, r
and g.
A similar theorem for analytic functions in a bounded domain g.
A further theorem contains a condition which s, n, m must sa-
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APPROVED FOR RELEASE: 09/01/2001

5	Vitushkin, A.G. Nalytic Capacity of Sets and Some of Their Properties (Analiticheskaya yenkost' mrozkesty i nekotoryye yeye svoystwa) (Analiticheskaya yenkost' mrozkesty i nekotoryye yeye svoystwa) Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 778-781 (USSR) Let e be a bounded set of the complex plane \mathbb{Z} . Let the function $\varphi(z)$ be a) defined everywhere on \mathbb{Z} -e, $ \varphi(z) \leq 1$. b) analytic $\varphi(z)$ be a) defined everywhere on \mathbb{Z} -e, $ \varphi(z) \leq 1$. b) analytic everywhere outside of e, and c) $\lim_{z\to\infty c} \varphi(z) = 0$. Let $\chi(e, \varphi) =$ $\lim_{z\to\infty c} z\varphi(z) $ and $\chi(e) = \sup_{z\to\infty c} \chi(e, \varphi)$. According to V.D.Yerokin, $\lim_{z\to\infty c} z\varphi(z) $ is called the analytic capacity of the set e. The author enumerates 13 properties of $\chi(e)$, e.gs 1. from e" Define there follows $\chi(e^n) \geq \chi(e^1)$; 2. if e is a continuum, then $\Lambda \chi(e) \leq d(e) \leq B \chi(e)$, where $d(e)$ is the diameter of e and $A > 0$, B > 0 are absolute constants. Furthermore there holds the theorem: B > 0 are absolute constants. Furthermore there holds the theorem:	
Card 1/2	A $f(e) \leq d(e) \leq b \leq (e)$, then it constants. Furthermore there notice into $B > 0$ are absolute constants. Furthermore there notice into $B > 0$ are absolute constants. Furthermore there notice into $p(z)$ satisfies the conditions $a > b > c$, then it can be if $\varphi(z)$ satisfies the conditions $a > b > c$, then it can be if $\varphi(z)$ satisfies the conditions $a > b > c$, then it can be if $\varphi(z)$ satisfies the conditions $a > b > c$, then it can be if $\varphi(z)$ satisfies the conditions $a > b > c$, then it can be if $\varphi(z)$ satisfies the conditions $a > b > c > c$ where $\varphi(z) = \sum_{k=1}^{\infty} \frac{c_k}{(z-a)^k}$ outside of the sine lest include containing e; here a is the center of the circle and $ e_u \leq A \; \forall (e) [d(e)]^{k-1}$, $A > 0$.	

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Analytic Capacity of Sets and Sous of Their Properties 507/10-123-5-2 (c) Let C_{e} be the complement of a in the Complement for T_{e} be an open circle of the radius r given the center z_{1} let K_{2}^{r} be the closed ring between the abroles with the radii $r_{e} \sim \frac{1}{2^{n}}$ and $r_{n+1} = \frac{1}{2^{n+1}}$. Let $P_{r}^{r}(e) \approx \frac{1}{1} C(u(1) C_{r}^{r})$; $P_{u}(e) \approx \inf_{x \to 0} P_{r}^{r}(e)$. Theorem: For no $z \in u$ let $\sum_{n=1}^{\infty} (\frac{1}{2^{n}})^{2} C(0_{c}(1K_{u}^{n}) < \infty$. Then for all rand z it holds $P_{z}^{r}(C_{e}) \ge C(0_{c})$. The author announces further results. PRESENTED: October 8, 1958, by A.N.Kolmogorov, Academician SUBMITTED: September 30, 1958

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TITLE:	Vitushkin,A.G. Some Theorems on the Possibility of a Uniform Approximation of Some Theorems on the Possibility of a Uniform Approximation of Continuous Functions by Analytic Functions (Nekotoryye teoremy o vozmozhnosti ravnomernogo priblizheniya nepreryvnykh funktsiy analiticheskimi funktsiyami) Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 6, pp 959-962 (USSR) Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 6, pp 959-962 (USSR)
PERIODICAL:	Doklady Akademii nauk SSSR, 1990, to intervention of the author's The present paper is a direct continuation of this periodical.
ABSTRACT:	The present paper is a direct continuation of the author of paper [Ref 2] published in the preceding Nr 5 of this periodical. The assertion of the theorem of [Ref 2] is strengthened, it holds. The assertion of the theorem of [Ref 2] is strengthened, it holds. $P_z^r(C_e) = 1$. Under the assumptions of the theorem of [Ref 2] it noises: Every function uniformly continuous on e can be approximal holds: Every function uniformly continuous on e can be approximal holds: Every function uniformly exact by a function analytic in a cert uniformly and arbitrarily exact by a function analytic in a cert density in every accumulation point of e is greater than $\mathcal{E}, \mathcal{E} > 0$ then for the developability of a function $f(z)$ into a uniformly convergent series of rational functions it is necessary and sufficient that $f(z)$ is continuous on e and that it has a derivative in every inner point of e. Seven theorems and five lemmas with partly sketched proofs are given.
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Vitushkin, Anatoliy Georgiyevich Theory of the transmission and processing of information. New York, Pergamon Press, 1961. xvi, 206 p. tables. Translated from the original Russian: Otsenka slozhmosti Zadachi tabulirovaniya, Moscow, 1959. References: p. 197.

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Vitushkin, Anatoliy Georgiyevich Otsenka slozhnosti zadachi tabulirovaniya (Estimating the Complexity of the Tabulation Problem) Moscow, Fizmatgiz, 1959. 228 p. (Series: Sovremennyye problemy matematiki) 7,000 copies printed. Eds.: M.Ya. Antonovskiy and M.M. Goryachaya; Tech. Ed.: S.S. Gavrilov. FURPOSE: This book is intended for graduate students and scientific workers in the field of mathematics and cybernetics. COVERAGE: The author derives a numerical estimate of the degree of difficulty of the problem of tabulation for different classes of functions. Several specific methods of constructing tables so as to give optimum results are presented. The author bases his conclusions on the results of the theory of functions, among them his own investigations riblished in the monograph 0 mnogomernykh variatsiyakh. It is necessary to evaluate the quality of the various tabulation methods in order to automate the selection of the tabulating method with the aid of digital computers. This work, therefore, is the first step toward utilizing Caru 1/5

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807/3929 Estimating the Complexity of the Tabulation Problem the concepts of the theory of functions in the field of computer mathematics. The first three chapters deal with the concept of the E- entropy of a metric space and with estimates of the \mathcal{E} - entropy of several spaces of analytical and differentiable functions. The fourth and fifth chapters consider variations of subsets of Euclidean spaces and estimate the variations of several specific sets (algebraic surfaces). The two last chapters introduce estimates of the complexity of setting up tables for several specific classes of functions (for instance, for analytical and differentiable functions). The author thanks A.A. Lyapunov and A.L. Brudno. The author credits a student at Moscow University, V.I. Arnol'd, for his refutation of the Hilbert hypothesis. There are 11 references: 8 Soviet, 2 German, 1 English (in Russian translation). TABLE OF CONTENTS: 7 Preface 9 Introduction 15 Ch. I. Concept of the Entropy of a Metric Space 15 1. A table and its volume 2. Entropy of discrete sets 18 19 3. Concept of the relative \mathcal{E} - entropy Card 2/5

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	Vitushkin, A.G. Example of a Set of Positive Length With Zero Anclytic Capacity Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 2, pp 246-249 (USSR) By the construction of a counter-example (a set of positive length with a vanishing analytic capacity) the author refutes an inequation of his earlier paper [Ref 3_7. 1 theorem and 4 lemmas are formulated. There are 3 references, 2 of which are Soviet, and 1 American. April 1, 1959, by A.N.Kolmogorov, Academician. April 1, 1959
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50V/20-128-1-3/58 Necessary and Sufficient Conditions for a Set in Order That ·· 16(1) Vitushkin, A.G. any Continuous Function on it Could be Approximated Uniform-AUTHOR: TITLE: ly by Analytic or Rational Functions Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 17-20 (USSR) Let T be the z-plane, z = x + iy; e a bounded subset of T'; Ce complement of e in τ ; $\hat{\gamma}(e)$ the analytic capacity of e; PERIODICAL: a closed circle in T with the radius r and center z. ABSTRACT: Theorem : In order that every complex function f(z) uniformly continuous on e can be approximated with every given exactness on e by a function analytic in a certain neighborhood of e, it is necessary and sufficient that for every circle σ_{2}^{r} the equation $\gamma \left(c_{e} \cap \sigma_{z}^{r} \right) = r = \gamma (\sigma_{z}^{r})$ The author gives two further formulations of the same theorem Card 1/2 ÷ n

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sov/20-126-1-3/58 Necessary and Sufficient Conditions for a Set in Order That any Continuous Function on it Could be Approximated Uniformly by Analytic or Rational Functions and one conclusion. S.N. Mergelyan, M.A. Lavrent'yev, and M.V. Keldysh are mentioned. There are 2 Soviet references. May 14, 1959, by A.N. Kolmogorov, Academician PRESENTED: May 13, 1959 SUBMITTED: - 27 Card 2/2

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VITUSHKIN, A.G.; IVANOV, L.D.; MEL'NIKOV, M.S.

Incommensurability of the minimal linear measure with the set length. Dokl. AN SSSR 151 no.6:1256-1259 Ag '63. (MIRA 16:10)

1. Predstavleno akademikom A.N.Kolmogorovym.



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VITUSHKIN, A.G.

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Proof of the existence of analytic functions of several variables not representable by linear superpositions of continuously differentiable functions of fewer variables. Dokl. AN SSSR 156 no.6:1258-1261 Je '64. (MIRA 17:8)

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VITUSHKIN, N. I., NARYADCHIKOV, D. 1., PETROVSKIY, V. I. and ZATULOVSKIY, V. I. "Sources of Ionizing Radiation for Radiation-chemical Research"

Truly Transactions of the First Conference on Radioaction Chemistry, Moscow, Izd-vo AN SSSR, 1958. 330pp. Conference -25-30 March 1957, Moscow

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177 USBER N. L. KUZMINSKIY, A. S., NIKITINA, T. S., ZHURAVSKAYA, E. V., OKSENT'YEVICH, L. A., SUNITSA, L. L., and VITUSHKIN, N. I.

"The Effect of Ionising Radiations on Crude and Vulcanized Rubbers,"

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Ceneva, 1 - 13 Sep 58.

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KUZ'MINSKIY, A.S.; RUZER, L.S.; SUNITSA, L.L.; Prinimali uchastiye: VINOGRADOV, V.V.; VITUSHKIN, N.I.; YEVLAMPIYEV, A.I.; OSIPOV, V.B. Apparatus with a source of gamma rays of Co^{60} ._ 1 16,000 g-equivalent of radium for radiochemical investigations of crude and vulcanized rubbers. Kauch. i rez. 20 no.11:8-10 N '61. (MIRA 15:1)

l, Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti. (Rubber) (Gamma rays) The second for the for the MIRP) and and the CNHRP) and and the for the for the torn of the second of

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AUTHOR: Morozov, Yu. L.; <u>Vitus</u> Khomutov, A. I.; Tsetlin, B. L.	nkin. N. I.; Glazunov, P. Ya.; Rafikov, S. R.;
soyedineniy AN SSSR); Scientific	le Compounds IN SSSR (Institut elementoorganicheskikh B Research Institute for Fiberglass (Nauchno- lovolokna); Institute of Physical Cheristry AN SSSR SSSR)
TITLE: Radiation gas phase graf	t polymerization on glass fibers
SOURCE: Simpozium po radiatsion khimiya polimerov (Radiation che Izd-vo Nauka, 1966, 160-164	nnoy khimii polimerov. Moscow, 1964. Radiatsionnaya mistry of polymers); doklady simpoziuma. Moscow,
TOPIC TAGS: radiation polymeriz fiber, acrylonitrile	ation, graft copolymer, polymerization kinetics, glass
	tion gas phase graft polymerization onto inorganic X ray tube IRTs-Ja as the radiation source,
acrylonitrile as the monomer, an 1) conventional nonalkaline nonp	d three types of glass fibers as substrate
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ACC NRI AT6034057 acid; and, 3) coarse-pored fiber (40 Å effective pore diameter) made by acid treatment of sodium borosilicate fiberglass. Reaction rates were measured directly under the beam with the help of a McBain type device. Induction of the graft polymerization reaction on the nonporous fiber was slow; with the porous materials the induction period was short, with more polymer forming on the coarser material. However when the pores were filled, the graft polymerization reaction rate was about the same as on the nonporous surface. Initial polymerization rates on all three fibers reached limiting values with monomer concentrations -- at acrylonitrile vapor pressures were well under 100 mm Hg. In the porous samples the process rate is a linear function of the sorbed monomer concentration; the energy of activation is about 3 kcal/mol. The polymerization rate is proportional to the square root of the dosage for nonporous substrates-glass fiber, aerosil, powdered silica gel. Radical reaction mechanism was confirmed. The polymerization rate is a linear function of the dosage for the fine pored material, probably due to steric hindrance inside the pores rather than to a different reaction mechanism. Reaction initiation on metallic oxide and silicate materials is probably associated with the formation of the oxygen ion radical under ionizing radiation. Orig. art. has: 4 figures. SUB CODR: 07, 11/ SUEM DATE: 25Jul66/ ORIG REF: 007 Card 2/2

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	EWP(1)/EWP(b/T/EWA(1)/EWP(e) Fo-4/Pr-4/Pa-4/Pt-7/Pu-4/EBD-10/PD0 ##
	GA/RM/NU ACCESSION NR: AP5012099 UR/0191/65/000/005/0003/0004
	AUTHOP: Bessonov, A. I.; Vitushkin, N. I.; Glazunov, P. YE.: 7 2 Aurepetisu, Ch, There are the Reverse Automatic and the State of
,." · 1	TITLE: Unit for gas-pacse radiscion-rideric Graft Fight Fight
	SOURCE: Plasticheskiye massy, no. 5, 1965, 3-4
	TOPIC TAGS: graft polymerization, gas phase graft polymerization, radiation induced graft polymerization
	ABSTRACT: A pilot-plant unit has been built for producing various in craft polymerization products (combining the advantages of the con- in statements by the constant of pasts in the constant of the constan
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	monomer and incre 1 ac. The un t is designed to optimit
	monomer and inert (as. The unit is above room temperature (Fig. 1 of the monomers whose boiling point is above room temperature (Fig. 1 of the Enclosure) or 2) with monomers which are normally gaseous. In the
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BESSNONOV, A.I.; VITUSHKIN, N.I.; GLAZUNOV, P.YA.; KARAPETYAN, SL.A.; PARFANOVICH, B.N.; RYABCHIKOVA, G.G.; YAKUBOVICH, A.A. Unit for radiation gas-phase graft polymerization. Plast. massy (MIRA 18:6) no.5:3-4 '65.

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Franslation	from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 136 (USSR)
AUTHORS :	Belokrinitskaya, Ye.Ye., Bondarenko, V.V., Vitushkina, I.N., Gerasimova, M.S., Ginzburg, V.L., Gramenitskiy, I.N., Livshits, D.M., Kryzhnaya, V.F.
TITLE:	The Spectral Analysis of Ccoalt for Metallic Impurities With the Use of Cast Electrodes
PERIODICAL:	V sb.: Materialy 1-go Ural'skogo soveshchaniya po spktroskopii, 1956. Sverdlovsk, Metallurgizdat, 1958, pp 59-61
ABSTRACT :	The samples are cast into chill molds in the forms of rods of 7 mm in dia- meter and 40 mm long. The butts of the rods are filed to a plane and treated by a HCl solution $(1:1)$ for cleaning from F ₂ . The spectra are excited in an a-c arc with an upper carbon electrode and photographed with an average quartz spectrograph. The standards are prepared on the basis of pure cobalt, in which the concentration of admixtures is determined chemically. Ni, Fe, Si, Mn, Al, Cu, As and Sb can be determined with a mean error of $5 - 15\%$. 0. Kibisov
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