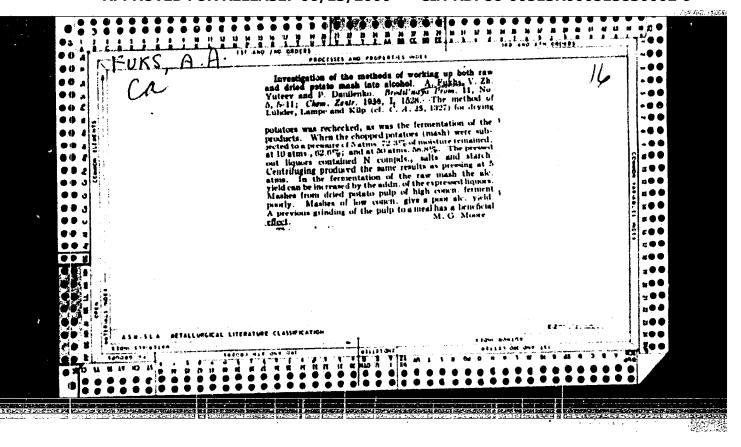
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	Perchatkin, P.W. [Engineer], A.A. Besienezhnykh [Docent, Candidate of Technical Sciences], A.M. Bigeyev [Docent, Candidate of Technical Sciences], and V.W. Letimin [Engineer], [Magnitogorok Mining and Metallurgical Institute]. Effect of Furnace Atmosphere on the Behavior of Sulfur During Melting in the High-Capacity Open-Hearth Furnace	361	
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FUKRA CZECHOSLOVAKIA/Nuclear Physics - Physical Base of Nuclear and Thermonuclear Technology. : Ref Zhur Fizika, No 1, 1960, 617 Abs Jour Fukra, J. Author Inst : Conference on Problems of Nuclear Technology Held in Title Prague on 28 - 30 January 1959. : Jaderna energie, 1959, 5, No 3, 105-106 Orig Pub : No abstract. Abstract Card 1/1



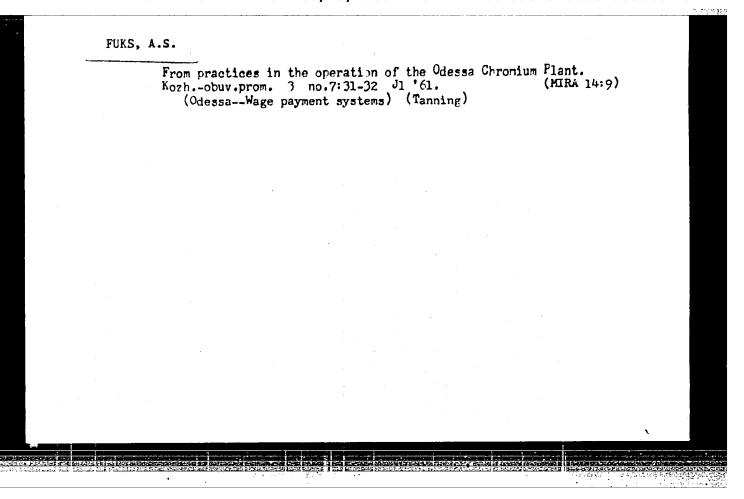
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So: N/5
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1. Nachal'nik otdela legkoy i tekstil'noy promyshlennosti normativno-issledovatel'skoy laboratorii po trudu, Odessa. (Odessa-Wages-Leather industry)

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"Experience With the Administration of Novocain and Morphine For Prevention of Operation Shock," Voyenno-Med. Zhur., No. 11, p. 71, 1955.

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1. Gonudarstvennyy trest po geologicheskim izyskaniyam na neft' v Vostochnoy Sibiri.

GINZBURG, E.L.; SAMSCHOV, V.V.; FUKS, B.A.

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Ueber einige eigenschaften der pseudokonformen abbildung. Matem. SB., 1 (43), (1936), 561-574.

SO: Mathematics in the USSR, 1917-1947 edited by Jurosh, A. G. Markushevich, A. L. Rashevskiy, P. K. Moscow-Leningrad, 1948

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SO: Mathematics in the USSR, 1917-1947 edited by Jurosh, A. G. Markushevich, A. L. Rashevskiy, P. K. Moscow-Leningrad, 1948

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Fuchs, B. Sur la fonction minimale d'un domaine. Il. Similar inequalities can be obtained where we substitute (Eursine. French aunmary)

there have 7, 55.] Let $u = [K_B(t, l)] V_t M_B(z, t, l)$, of Schwarz reson of interest because any consequence than Roy. 7, 55.] Let $u = [K_B(t, l)] V_t M_B(z, t, l)$, to the case of the theory of mapping of four-dimensional correl function, $M_B(z, t, l) = K_B(z, l)/K_B(t, l)$ is the domains by pairs of functions of two couplex variables and, or the other land, as has been shown by Bergman [Amer.]. representative domains are both circles.) The metrics characteristic domains are both circles.) The metrics characteristic domains are both circles.) The metrics characteristic domains mapping the annual maps of the first transfer of the firs In white permet hard P the $t_{\rm observed}$ in

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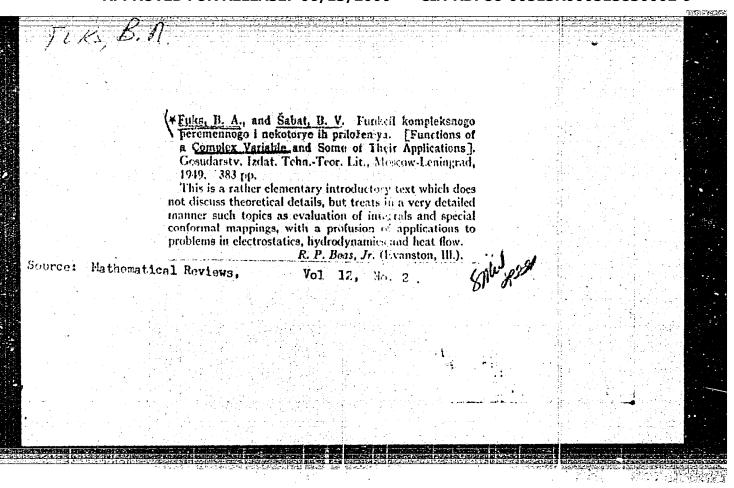
most bathematical Reviews,

Rec. Math. [Mat. Shornik] N.S. 18(60), 323-346 (1946). for Sr the distance on metric A, and for a the minimal func-[For part I see the same Rec. N.S. 16(58), 21-38 (1945); of Schwarz Pak are of interest because they can be extended tion of the dynam. The above generalizations of the lemma maction, and $T_n(t,t) = \delta^2 \log K_n/\delta t \delta t$, map a given domain. Math. 68, 20-28 (1916), these Rev. 7-286] and Sciaffer B into its minimal and representative dismains, respectively. [see the preceding raview], these functions are concerted in If the domain is simply-connected, the minimal and the a simple manner with iductions mapping the domain into a

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Yol

Fuks, B. A. Cauchy's integral formula in the theory of alarytic functions of several complex variables. Uspehi Matem. Nauk (N.S.) 2, no. 3(19), 142-157 (1947). (Flussian) The author gives a review of generalizations (by Bergman, Bochner, A. Weil and others) of Cauchy's integral has only a compilatory and formal character. The author formula to the case of several complex variables and of some does not even discuss the relation of the generalized Cauchy related questions. In the opinion of the reviewer the article formulae to other residue formulae, not to mention their does not give a true picture of the topic. The Cauchy relations to the generalized Green's formulae, etc. Some formula is an integral expression reproducing analytic functions in the case of one variable, its kernel is independent does not indicate that formulae expressing the function in of the domain, this is no longer the case for several variables terms of its value on the boundary hypersurface and on the Since, in addition, the integration has to be carried out over distinguished boundary surface were given by Bergman side ably in value as means of investigation when we pass 44 (1947), in particular p 389 there Rev. ii, 140; Jber. to several variables. On the other hand there exist other Deutsch, Math. Verein 42, 238-252 (1933), respectively]; methods in several variables which lead to the desired he cites only later papers. K. Zarankiewicz. results. This cituation is not clarified in the review, which Source: Mathematical Reviews.

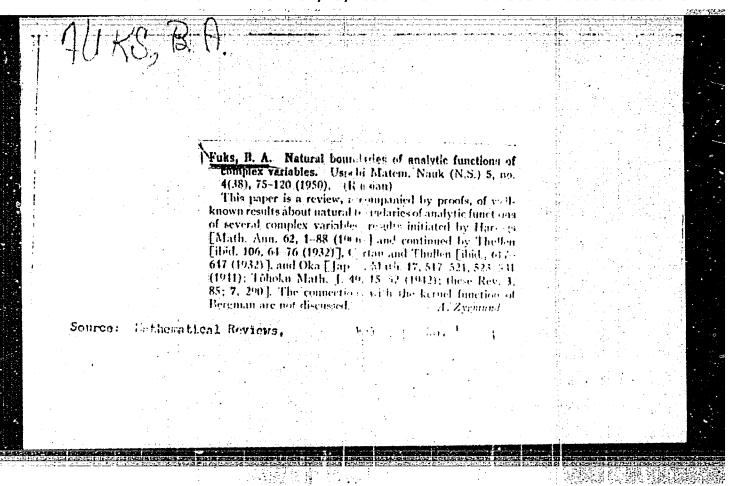


FUKS, B. A. Cb uchebnykh posobiya kh po matematike dlya zaochnikou.
Uspekhi matem. Nauk, 1949, Vyp. 3, S. 190-94.

S0: Tetopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949.

- 1. FUKS, B. A. AND SHABAT, B. V.
- 2. USSR (600)
- 4. Physics and Mathematics
- 7. Functions of A Complex Variable and Some of Their Applications, B.A. Fuks and B. V. Shabat. (Moscow-Leningrad, State Technical Press, 1949). Reviewed by A. F. Leontbev, Sov. Kniga, No. 1, 1950.

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



AFuks, B. A. Neevkildova geometriya v teorii konformush Tpsevdekonformush etobraženii. [Non-Euclidean geomatrz in the theory of conformal and pseudo-conformal mappings.] Gosudarstv. Izdat. Tehn. Teor. Lit., Mos-

cow-Leningrad, 1951. 148 pp. 5.20 rubles. The present work is one of a series of small volumes, each devoted to an exposition of some aspect of non-Euclidean geometry. The author's principal emphasis is on Bergman's theory 't the invariant metric and the relation of this theory to the classical portions of non-Euclidean geometry and conformal mapping. The material is self-contained, and is well-developed in the author's usual lucid style. However, the work suffers considerably because of the conspicuous absence of new material which has been developed over the past ten years by numerous writers and which cerves to relate in a striking manner the theory of the kernel function and the invariant metric with potential theory [cf. Bengman, The kernel function and conformal mapping, Amer. Math. Soc., New York, 1950; these Rev. 12, 402].

Source: Mathematical Reviews.

Chapter 1 presents the development of Bergman's kernel function through the use of complete orthonormal complex analytic systems. The invariant metric is introduced, and the generalized lemma of Schwa 2-Pick in proved. In chapter 2, the author establishes several differential-geometric characterizations of the invariant metric, and then turns to classical questions of Lobatchewskian reometry: groups of motions, distances, axioms of congruence, parallelism. Chapter 3 considers the geometry of automorphic functions. In chapter 4, the study of the lemma of Schwarz-Pick is resumed. Applications are made to Julia's distortion theorem. In chapter 5, the author turns to pseudo-conformal transformations of the space of two complex variables. The kernel function $K_B(z_1, z_2; \bar{z}_1, \bar{z}_2)$ is introduced, and by its means, Bergman's invariant metric

$$ds^2 = \sum_{m,n=1}^{2} T_{mn} dz_m d\hat{z}_n; \quad T_{mn} = \frac{\partial^2 \log K_D}{\partial z_m \partial \bar{z}_n}$$

Finally, questions of curvature and infinitesimal transformations are discussed.

P. Davis.

Vol 13 No. 9

FUKS B. A.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 625 - I

BOOK

Call No.: AF451006

Author: FUKS, B. A. and LEVIN, V. I.

Full Title: FUNCTIONS OF A COMPLEX VARIABLE AND THEIR APPLICATIONS Transliterated Title: Funktsii kompleksnogo peremennogo i nekotoryye

ikh prilozheniya

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of Technical and

Theoretical Literature

Date: 1951 No. pp.: 307

No. of copies: 15,000

Editorial Staff: None

PURPOSE: The book is written for engineers and students of higher technical colleges who wish a closer acquaintance with the theory of functions of a complex variable and its application to the solution of technical and physical problems in mathematical analysis.

TEXT DATA

Coverage: In the preface, the authors mention that this book is corelated with Funktsii kompleksnogo peremennogo i nekotoryye ikh prilozheniya (1949), by B. A. Fuks and B. V. Shabat and both are necessary to give the reader a knowledge of the principles of the theory and its special applications. The book is divided into five

1/2

Funktsii kompleksnogo peremennogo i nekotoryye ikh prilozheniya

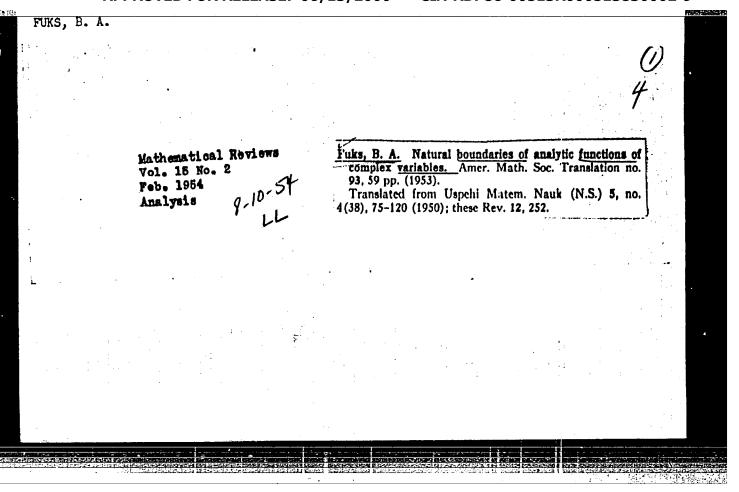
AID 625 - I

chapters, subdivided into 30 sections. Chapters I and II are written by B. A. Fuks, chapters III and IV by V. I. Levin and chapter V by both authors jointly. Chapter I covers preliminary information and properties of algebraic functions in the vicinity of regular and singular points, and series development; chapter II, differential equations and analytical functions; chapter III, Laplace's differential equations, formula, and transformation; chapter IV, contour integration and asymptotic developments; chapter V, Hurwitz' problem for polynomials, which is essential in many applications. The book contains 29 figures and diagrams.

No. of References: A few Russian sources are given in the text and

Facilities: None

2/2



1 16 v. 10. 11. USSR/Mathematics - Conformal representation

FD-1176

Card 1/1

Pub. 118-17/30

Author

: Fuks, B. A.

Title

Variation of lengths and directions under pseudoconformal transformations

Periodical

: Usp. mat. nauk, 9, No 3(61), 193-200, Jul-Sep 1954

Abstract

: The author shows how directions and lengths change under the following transformation: W=W(w, z), Z=Z(w, z), which are functions of complex variables w and z and regular at the point P(wo, zo) and whose Jacobian J(w, z) is different from zero at this point. He also shows how the modulus and argument of the Jacobian J(wo, zo)=J are connected with these changes. Two references, both the author's (Teoriya analiticheskikh funktsiy mnogikh kompleksnykh peremennykh [Theory of analytical functions of many complex variables], State Technical Press, 1948. "Ueber einige Eigenschaften der pseudokonformen Abbilding," Mat. sbor., 1(1936)).

Institution:

Submitted: November 21, 1953

FUKS, B. A. Funkcje zmiennej zespolonej i niektore ich zastosowania. (Tlum. Ryszard Bittner. Redaktor Julian Bonder) Warszawa, Panstwowe Wydawn. Naukowe, 1954. 349 p. (Functions of a complex variable and their application. Tr. from the Russian. diagrs.) RPB Not in DLC

FUKS, B. A. SCIENCE
Poland

So: East European Accession, Vol. 6, No. 5, May 1957

TUKK, O.A. USSR/Mathematics - Conformal transformations

FD-1177

Card 1/1

Pub. 118-18/30

Author

: Fuks, B. A.

Title

Conditions for pseudoconformality in the transformation of fourdimensional space

Periodical

: Usp. mat. nauk, 9, No 3(61), 201-204, Jul-Sep 1954

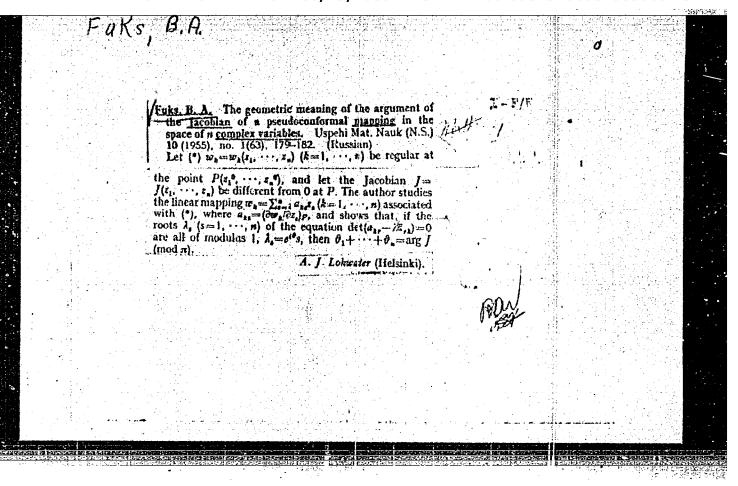
Abstract

: In this article the author assumes particular forms for the equations of transformation W=W(w,z), Z=Z(w,z), which determine a mutually unique differentiable representation of a certain neighborhood of a point $P_{O}(w_{O}, z_{O})$ onto a certain neighborhood of a corresponding point $P_{O}(W_{O}, z_{O})$. He then finds the conditions upon the parameters in these equations of transformation that ensure pseudoconformal transformations, namely in the form of three theorems. One reference (the author's cwn article

preceding this one in the same issue).

Institution:

Submitted : November 21, 1954



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Matematika w 533R za sorok let, 1917-1957.tom 1: Obsomyre stat: [Mathematics in the ULSR for Porty Years, 1917-1957), von 1: Obsomyre stat: Beview Articles) Moscow, Pismatgis, 1959, 1002 p. 5,500 copies Eds: A. G. Kurosh, (Chief Ed.), V. I. Bityutskow, W. G. Beltyansky, book): A. B. Dynkin, A. Te. Shilors, and A. P. Yushkevich; Ed. (Inside PURPOSE: This book is reconded.	This to Some man of Some man o	213	Shabat, B. V. Generalization and Analogies of the Theory or Knaiptic Punctions Puts, B. A. Punctions of Many Complex Variables Ostion. E. D., and B. V. Envediding, Boundary-value Problems of the Theory of Punctions of a Complex Variable	Heavekly V. V. Ordinary Differential Equations 1. Scientific achools in the USSR in the field of ordinary differential equations 2. Analytic representation of solutions (problems of algorithmic solvability) solutions (problems of a seprential equations between of analytic extension (extension equations between of analytic extension (extension examinations of other periodic and solutions and other beholds solutions and other bounded solutions	Lapunos stability Existence theorys and general qualitations theory Theory of dynamic systems and other generalizations of the theory of ordinary differential equations
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FUKS, B.A.

SUBJECT

USSR/MATHEMATICS/Theory of functions

CARD 1/1

AUTHOR

FUKS B.A.

TITLE

Some new results in the theory of analytic functions of

several variables.

PERIODICAL Uspechi mat. Nauk 11, 5, 85-93 (1956)

reviewed 1/1957

Starting from the formulation of two Cousin's problems the author describes the development of the theory of functions of several variables. It is interesting that among the mentioned fundamental results there is no Russian result.

INSTITUTION: Moscow.

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BERRI, R.Ya., dotsent; KOZYLYAYEV, P.A., dotsent; LUNTS, G.L., dotsent; LIBIN, M.L., starshiy prepodevatel; ROZENTAL, M.I., sesistent. Prinimali uchastiye: YUKS, R.A., prof.; VOYEYKOVA, S.V., dotsent; KOZITSIN, V.I., dotsent; TEUSH, V.L., dotsent. ANOSHINA, K.I., red.; KUZ'MINA, N.S., tekhn.red.

[Higher mathematics; instructions and control problems for students specializing in agriculture, fish culture, and forestry in upper-level correspondence schools (departments)] Vysshaia matematika; metodicheskie ukazaniia i kontrol'nye zadeniia dlia studentov sel'-skokhoziaistvennykh, rybokhoziaistvennykh i lesokhoziaisatvennykh spetsial'nostei zaochnykh vysshikh uchebnykh zavedenii (fakul'tetov). Pod red. G.L.Luntsa. Moskva, Gos.izd-vo "Sovetskaia nauka," 1958.

90 p. (MIRA 12:4)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya. Metodicheskoye upravleniye.
(Mathematics)

FUKS, Boris Abramowich, prof.; BAKHSHIYAN, F.A., prof.; ANDRIYEVSKIY,

F.P., dotsent; MIROSHKOV, R.K., dotsent; NAGATZYA, V.M., dotsent;
SCHOLEV, H.A., dotsent; SOKCLOV, A.M., dotsent; SHAPIRC, Z.Ya.,
dotsent; SHUSHARA, G.N., dotsent; KAPLAN, I.B., starshly prepodavatel'; POLOZKOV, A.P., starshly prepodavatel'; POLOZKOV,
D.P., starshly prepodavatel'; POPAZOV, N.G., starshly prepodavatel'; SHCHERBAKOV, S.S., starshly prepodavatel'; Prinimali
uchastlys: GOL'DENVEYZER, A.L., prof.; BARANENKOV, G.S., dotsent;
BERMAN, Ya.R., dotsent; LUNTS, G.L., dotsent; SHESTAKOV, A.A.,
dotsent; CMURMAN, V.Ye., starshly prepodavatel'; Rozental', M.I.,
assistent; SOKOLOVA, L.A., assistent. ROZANOVA, G.K., red.izd-va;
KUZ'MINA, M.S., tekhn.red. (Continued on next card)

FUKS, Boris Abremovich--(continued) Card 2.

[Higher mathematics; methodological instructions and control assignments for the students of correspondence technical schools of university level] Vysshala matematiks; metodicheskie ukazaniia i kontrol'nye zadaniia dlia studentov zaochnykh vysshikh tekhnicheskikh uchebnykh zavedenii. Izd.9. Pod red.

B.A.Fuksa. Moskva, Gos.izd-vo "Sovetskaia nauka," 1958. 179 p.

(MIRA 12:9)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya.

Metodicheskoye upravleniye.

(Mathematics--Study and teaching)

FUKS, B.A.

3-58-6-3/34

AUTHOR:

Kuz'min, B.A., Candidate of Technical Sciences, Dotsent, Fuks, B.A., Professor, Doctor of Physico-Mathematical Sciences

TITLE:

Are Also Required (Nuzhny i ochnyye zan-Attended Courses

vatiya)

PERIODICAL:

Vestnik Vysshey Shkoly, 1958, Nr 6, p 16-19 (USSR)

ABSTRACT:

The idea of the combined correspondence-resident system of schooling without an interruption in work, which has been practiced rather widely, is to organize practical and laboratory exercises at the training-consultation points, located at the students' place of work, for 6 to 7 months each year for 12 hours per week. Attendance at these lectures and other exercises is not obligatory. The organization of such exercises presupposes that a considerable number of correspondence students are concentrated at one place and that they study one or several related specialities. These exercises require the presence of instructors, equipped class rooms and laboratories. The author opposes the view of higher correspondence school workers, maintaining that the combined correspondence-resident system of study contradicts the nature of correspondence

Card 1/2

Attended Courses Are Also Required

3-48-6-3/34

schooling. He further points out that, notwithstanding the growing significance of the training-consultation points, this important link has so far not found the Ministry's due recognition. The author also contradicts reproacnes to the effect that the correspondence-resident system of training without ceasing work, repeats the evening form of education. He considers it the most flexible and acceptable one for the workers of heavy industry and large enterprises.

ASSOCIATION: Vsesoyuznyy zaochnyy mashinostroitel'nyy institut (All-Union Machine Construction Correspondence Institute)

Card 2/2

16(1) PHASE I BOOK EXPLOITATION

SOV/2336

Fuks, Boris Abramovich, and Boris Vladimirovich Shabat

Funktsii kompleksnogo peremennogo i nekotoryye ikh prilozheniya (Functions of Complex Variables and Some of Their Applications) 2d ed. Moscow, Fizmatgiz, 1959. 376 p. (Series: Fiziko-Matematicheskaya biblioteka inzhenera) 20,000 copies printed.

Ed.: M. L. Smolyanskiy; Tech. Ed.: Ye. A. Yermakova.

PURPOSE: This book is intended for students and Aspirants of vtuses and also for engineers and scientists working on the application of mathematics to physics and mechanics.

COVERAGE: This book discusses in detail the fundamental concepts of the theory of functions of a complex variable. Among the topics covered are complex numbers, analytic functions, conformal mapping, elementary functions, and ragular functions. Various applications of the theory are also discussed, such as applications to plane vector fields, to the theory of residues, representation of functions by line integrals, etc. The book places great emphasis on practical applications of the theory, and many examples and Card 1/9

are no references. TABLE OF CONTENTS: From the Freface to the First Edition To the Second Edition Preface Introduction 1. Complex numbers 2. Simplest operations 3. Multiplication, division, raising to an integral power, extraction of roots 4. Raising to a complex power and logarithmic operation	Functions of Complex (Cont.) problems are included. No personalities are mentioned. T	here!
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Card 8/9

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IL'YUKHINA, N.P.; FUKS, B.A.

Variegated Cretaceous sediments in the Kan-Tase/evo depression.

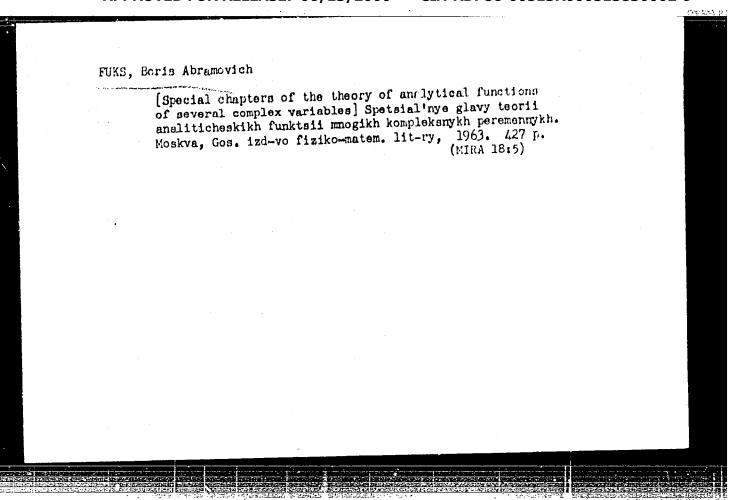
Trudy V:ECEI 66:107-115 '61. (MIRA 15:4)

(Yenisey Ridge--Geology, Stratigraphic)

FUKS, Boris Abramovich; AYZENBERG, L.A., red.; MURASHOVA, N.Ya., tekhr.

[Theory of analytic functions of several complex variables]Teoriia analitiches ikh funktsii mnogikh kompleksnykh peremennykh. Izd.2. perer. i dop. Moskva, Fizmatgiz. Vol.1. [Introduction to the theory of analytic functions of several complex variables] Vvedenie v teoriiu analiticheskikh funktsii mnogikh kompleksnykh peremennykh. 1962.
418 p. (MIRA 15:7)

(Functions of complex variables)



FUKS, Boris Abramovich; AYZENBERG, L.A., red.; ZARUTSKAYA, V.V., red.; PLAKSHE, L.Yu., tekhn. red.

[Theory of analytic functions of several complex variables] Teoriia analiticheskikh funktsii mnogikh kompleksnykh peremennykh. Izd.2., perer. i dop. Moskva, Fizmatgis. Vol.2. [Special chapters on the theory of analytic functions of several complex variables] Spetsial nye glavy teorii analiticheskikh funktsii mnogikh kompleksnykh peremennykh. 1963. (MIRA 16:10) 427 p.

(Functions, Analytic)

FUKS, Boris Abramovich; SHABAT, Boris Vladimirovich; BAYEVA, A.P., red.

[Functions of complex variables and some of their applications] Funkt 14 kompleksnogo peremennogo i nekotorye ikh prilozheniia. Izd.3. Moskva, Izd-vo "Nauka," 1964. 387 p.

(MIMA 17:6)

KARASEV, I.P., ZOLOTOV, A.N., POSTNIKOV, V.G., FUKS, B.A. Some problems in the field prospecting of fractured carconate reservoir rocks in the Markovo oil field. Trudy VNII no.43:

(MIRA 18:6) 144-156 165.

FUKS, B.B.; SHISHKIN, G.S.

Principles and methods of the histochemical analysis of enzymes. Arkh. anat., gist. i embr. 44 no.6:103-113 Je 163.

(MIRA 17:7)

l. Laboratoriya gistokhimii (zav. - doktor med. nauk B.B. Fuks) Instituta eksperimental'noy biologii i meditsiny Sibirskogo otdeleniya AN SSSR, Novosibirsk.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513830002-9

FUKS, B. B.

Jul/Aug 53

USSR/Medicine - Regeneration Tissues

"Correlation Between Direct and Indirect Cell Division During Regeneration of the Endothelium of the Eye," B.B. Fuks (Stalinsk)

Usp Sov Biol, Vol 36, No 1 (4), pp 100,101

Investigation of the process of regeneration of the corneal endothelium in frogs, rabbits, and humans, after mechanical injury, demonstrated that mitosis predominates at the height of regeneration. Karyokinetic division of nuclei of the 2-nucleus cells points to the possibility of mitosis succeeding amitosis. Amitosis provides physiological regeneration of the endothelium of the cornea and aids in its restoration after injury. Uniform amitosis predominates during physiological regeneration. In this respect, the process differs from that of pathological regeneration. The generally accepted, but false, Weismann-Morgan theory maintains that tissues produced by amitosis are inferior since no proper, uniform

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FUES, B.B., kandidat meditsinskikh nauk ( Movosibirsk, Krasnyy pr., 11 ky.2)

Characteristics of growth of growth of mouse ascites carcinoma in the eye in rabbit and guinea pig. Vop.onk. 1 no.3:83-88 155.

(MIPA 10:1)

1. Iz kafedry patologicheskoy anatomii Stalinskogo IUV (xaveduyushchiy kafedroy - doktor meditsinskikh nauk A.G. Varshavskiy)

(EYE, neoplasms, mouse ascites carcinoma, growth in guinea pigs å rabbits)

(NHOPIASMS, experimental, mouse ascites carcinoma, growth in guinea pigs å rabbits)
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USSR / Human and Animal Morphology. Nervous System. S-2 Peripheral Nervous System.

Abs Jours Rof Zhur-Biol., 14, 1958, 64817.

Author : Fuks, B. B. Inst : Not givon.

Inst
 Not given.
 Concerning the formation of Nerve Fiber Plexuses
 in the Wall of Blood Vessels by Traumatic Neuroma.

Orig Pub: V sb.: Vopr. travmatol, ortopedii i vosstanovit. khirurgii. 2. Novosibirsk, 1957, 216-221.

Abstract: Histological and histochemical studies were made of 100 human neuromas of 6 mos. to 18 yrs. duration and neuromas after 60 experiments on dogs, rabbits and cats (2 to 18 mos. after section of the sciatic nerve). It has been shown that around the vessels of old traumatic neuromas in man and

animals, and in their outer coating, friable plexuses

Card 1/2

USSR / Human and Animal Morphology. Nervous System. S-2
Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64817.

Abstract: of thin pulp-free fibers are formed. Their appearance is connected with the periodic flare-ups of regenerative changes of the fibers in the neuromas. The elements of the walls of the vessel and of the fibers of the nerve plexus do not contain alkali, but do contain active acid phosphomonoesterase. The fluctuation of pressure in the vascular network of the neuroma and the pulsation of the blood vessels may lead to the irritation of the fibers of the neuroma as well as of the fibers of the nerve plexuses in the vascular wall.

Card 2/2

USSR / Human and Animal Morphology. Nervous System. S-2
Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64816.

Author: Fuks, B. B.

Inst : Not given.

Title : Data concerning Histochemistry and Histology of

Perineurial Sheaths in Traumatic Neuroma.

Crig Pub: V Sb.: Vopr. travmatol., ortopedii vosstamovit.

khirurgii. 2. Novosibirsk, 1957, 222-230.

Abstract: A histological and histochemical study was made

of 100 cases of traumatic neuroma in humans of one and a half months to 18 years duration, and neuromas principally of the sciatic nerve of 63 dogs, cats, and rabbits, one day to 18 months after experimental trauma. In 10 experiments on dogs, a chronic lymphovenous congestion was produced by means of a subcutaneous ligature of the

Card 1/3

USSR / Human and Animal Morphology. Norvous System. S-2 Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64816.

Abstract: extremity. It has been shown that the perineural sheaths in neuroma have a double-layer structure: the inner endothelial layer passes over into a thin layer of collagenous fibers. The endothelium of the perineurial tube (PT) is connected by protoplasmic bridges with the connective cellular tissued in the fascicle of nerve fibers, and contains acid and alkali phosphomonoesterase. In the connective tissue within the PT and in the contents of the perineurial fissure, there are many polysaccharides. Enlargement of the PT does not occur when the lymphovenous flow from the extremity is interfered with. The perineurial sheaths formed in the process of the regeneration

Card 2/3

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USSR / Human and Animal Morphology. Nervous System. S-2
Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., 14,1958, 64816.

Abstract: of nervos maintain favorable conditions for the alimentation of the nerve fibers. The formation of the PT upon the regeneration of the nerve is connected with the trophic proceeding from the regenerated nerve fiber.

FUKS, B.B.	
Fux B. B. Arkh. Patol. 1957, 19/4 (46-50 and 89-90) Illus. 3	
Report on a case of malignant pulmonary adenomatosis in a 39-year-old man, in whom X-rays revealed caudo-apical spread of the malignant tumour, while no metastases were demonstrable in other organs (only the lymph nodes at the bifurcation were affected). On the basis of this case, mouse experiments were made with ascites carcinoma. The object was to determine whether intrabronchial spread of carcinomata is possible. Nine mice were intratracheally injected with 0.1 ml. carcinomatous ascitic fluid after tracheotomy. Two died shortly thereafter, while 7 died of asphyxia 7-9 days after the administration. Only 2 developed a tumour, cancer cells being demonstrable in the bronchi and alveoli and also in the lymph spaces. In 5 other experiments carcinomatous ascitic fluid was introduced into the lungs through the thoracic wall: carcinomatous pleurisy developed in 3 cases, while in 2 cases cancer infiltrated the lungs.	
Chair Pathol. actiony, Incl. Odvanced Training Chypician	

FUKS B.B. AUTHOR PA - 3181 The Dynamic Of Phosphomonesterase in the Process of Myelinization TITLE of Nerve Fibre. (Dinamika kisloy fosfomonoesterazy v protsesse mielinizatsii nervnogo volokna -Russian) Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 3, pp 692-694 (U.S.S.A.) PERIODICAL Received 6/1957 Reviewed 7/1957 ABSTRACT · The formation of active acidous phosphomonoesterase round the axon cylinder during its regeneration was investigated. 25 traumatic neuromae of peripheral nerves, which were removed in the course of operations on men, were investigated and experiments with lo rabbits and lo dogs were carried out. The topography and the activity of the ferment were investigated on the gluteal nerves of 8 rabbits, 2 dogs and 2 human corpses . The experiments with dogs and rabbits were carried out in order to determine the time of existen-

of myelinization or to coincide with it. We may probably assume that the occurrence of active acidous phosphomonoesterase in the protoplasma of Schwann's cells is related to the beginning of the synthesis and further to the exchange of phospholipides of the myelin mantle. Considerable losses of phosphatasis in the case of a slightly prolonged treatment of the preparations with fatty sol-

ce of active acidous phosphomonoesterase round the axon (neurite). It was found'either to occur a little earlier than the beginning

Card 1/2

The Dynamic of Phosphomonesterase in the Process of PA - 3181 Myelinization of Nerve Fibre.

ving agents (especially in the case of heating) were observed, which permits us to conclude to a connection of the active ferment with the lipoid fraction of the myelin mantle. (With 4 illustration and 5 citations from Slavic publications).

ASSOCIATION

Institute of Plastic Surgery, Novosibirsk PRESENTED BY ANNICHKOV N.N., Member of the Academy

TO THE THE PERSON OF THE PERSO

SUBMITTED

11.6.1956

AVAILABLE Card 2/2

Library of Congress

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830002-9"

FUES, B.B. (Novosibirsk)

Histochemical study of mucopolysaccharides in sheaths of normal and regnerating nerves [with summary in English]. Arkh.pat. 20 no.10:59-68 158 (MIRA 11:12)

1. Iz Novosibirskogo nauchno-issledovatel'skogo institut VOSKHITO (dir. dots. D.P. Metelkin, nauchnyy konsul'tant temy chlen-korrespondent AMM SSSR prof. A.I. Strukov). (MUCOPOLYSACCHARIDES, metab.

normal & regenerating nerve in animals & humans, histochem (Rus))

(MERVES, metab.

wucopolysacchaides in normal & regenerating nerve in animals & humans histochem (Rus))

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830002-9 FOKS, B 4-2-10/18 Byalo, A., and Fuks, B. Health Technique (Tekhnika zdorov'ya) AUTHORS: Znaniye-Sila, 1958, # 2, pp 26-27 (USSR) TITLE: Six short articles accompanying photos. 1. High frequency irradiator for the even "massage" of PERIODICAL: 2. Plastic infant's inhaler cot for an "aerozol" mixture ABSTRACT: of antibiotics and oxygen. Sick infants often suffer from inadequate "gas exchange" and die from a lack of oxygen. 3. Ultra high frequency gear for healing hypertonic conditions, by irradiation of the solar plexus. 4. New portable electrocardiograph; unlike others which need photographic development, this inks its findings direct-5. Universal "aerozol" inhaler, permitting the spraying ly onto a strip of record-paper. of the medicament right into the lungs. The patient adjusts action by the lever, to suit her breathing. 6. Ultrasonic apparatus for diagnosing the growth of tumors; acts like radar through reflection from tissues of different density. Now being tested, will be widely used. Card 1/2 ED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513

FUKS, B.B

AUTHOR:

Fuks, B. B.

20-2-56/60

TITLE:

The Histochemistry of the Succinoxidase System of a Normal and a Regenerating Nerve (Gistokhimiya suktsinoksidaznoy sistemy normal nogo

i regeneriruyushchego nerva).

PERIODICAL: Doklady AN SSSR, 1958, Vol. 118, Nr 2, pp. 400-403 (USSR).

ABSTRACT!

The connection between the respiration and the excitation-process in the nerve is expressed by data according to which the want of oxygen of the nerve depends on the frequency of the excitation of the nerve (reference 17). It may be assumed that the respiration of a resting nerve is also related to the function of nerve-excitation (reference 6) In several papers (references 1, 17) the opinion is voiced that the respiration in a nerve fiber is directly related to the synthesis of energy-rich compounds. These compounds are later, in the process of the nerve, consumed. By the study of the part played by respiration the problem of a possible significance of the biological oxidation for exchange processes was displaced to a second-order place. These processes are supposed to guarantee the rebuilding of the axoplasmsubstance and of the medullary sheaths. It is supposed that the labile oxidase (references 15, 16; = cytochromoxidase according to reference 13) participates in the process of growth of the nerve fiber. Cytom

Card 1/4

The Histochemistry of the Succinoxidase System of a Normal and a 20-2-56/60 Regenerating Nerve.

chromoxidase is one of the enzymes of the succinoxidase system which catalyzes the oxydation of most of the tissue-substrata (reference 18). It is to be assumed that the respiration of a resting nerve is also related to the regeneration of the axoplasm-substance. It may further be assumed that in the regeneration of the nerve fiber just these ex= change processes are activated with which under normal circumstances the new formation of the axoplasm-substance and the medullary sheaths is connected. Starting from these assumptions the author histochemi= cally investigated 2 enzymes which form this system in a normal, a regenerating and a degenerating nerve. Cytochromoxidase and succindehy= drase were studied in 57 tests with dogs and rabbits (severing of the Nervus ischiadicus) and in 19 neuromas which were operatively removed from man. The duration of the tests was 1-25 days and 1-6 months. In incubations of the sections of a normal nerve cytochromoxidase first occurs in the nuclei, then in the perinuclear protoplasm and finally in the entire protoplasm of the endothelial cell of the capillary. In regenerations cytochromoxidase occurs in the axons and in the myelin sheaths of the central section in the place of injury. In traumatic neuroma of man the enzyme only occurs in the capillaries. 24 hours after the injury succindehydrase occurred in the axons and their ac=

Card 2/4

The Histochemistry of the Succinoxidase System of a Normal and 20-2-56/60 a Regenerating Nerve.

tivity increased in the myeline sheaths of the 2-3 mm long nerve sec= tion. When comparing the results first the agreement of the localization of the modifications of activity of the two enzymes in a normal and injured nerve becomes evident. In regenerations the activity of both components of the succinoxidase system increases just in those sections of the nerve fiber in which the formation of new nerve branches takes place. The activation of the process of the biological oxi= dation topographically and with respect to time agrees with the intensified process of new formation of the axoplasm-substance during the regeneration. In the same zone the activity of the acid phosphoromonoe sterase also increases (reference 4). The obtained results permit the formulation of the sentence on the connection of the increase in activity of the succinoxidase system with the processes of growth in the axonplasm of the regenerating nerve fiber. On the nature of the clubs at the end of the regenerating nerve fibers two opposed opinions exist in publications: clubs of growth and clubs of growth-inhibition. Ac= cording to the author's results the first opinion would be correct. There are 4 figures, and 20 references, lo of which are Slavic.

Card 3/4

The Histochemistry of the Succinoxidase System of a Normal and 20-2-56/60

ASSOCIATION: Scientific Research Institute for Orthopedics, Traumatology and Plastic Surgery, Novisibirsk (Novosibirskiy nauchno-issledovately-skiy institut ortopedii, travmatologii vosstanovitelynoy khirurgii).

PRESENTED: August 30, 1957, by L. A. Orbeli, Academician.

SUBMITTED: August 27, 1957.

AVAILABLE: Library of Congress.

Card W4

CIA-RDP86-00513R000513830002-9" APPROVED FOR RELEASE: 06/13/2000

FUKS, Boris Borisovich; TSELLARIUS, Yu.G., otv.red.; BUSHUYEVA, V.H., red.; MAZUROVA, A.F., tekhn.red.

[Histochemistry and morphology of the normal and injured nerve; histochemical study of the mechanisms of nerve development] Gistokhimia i morfologiia normal'nogo i povrezhdennogo nerva; opyt gistokhimicheskogo izucheniia mekhanizmov razvitiia nerva. Novosibirak, Izd-vo Sibirskogo otd-niia Akad.nauk SSSR, 1959.

197 p. (MIRA 13:4)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830002-9"

17(3,4) AUTHOR:

Fuks, B. B.

507/20-125-4-61/74

TITLE:

Histochemistry of the Phosphomonoesterases During the Regeneration and Degeneration of a Nerve After Injury

(Gistokhimiya fosfomonoesteraz pri regeneratsii i degeneratsii

nerva posle povrezhdeniya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 4, pp 905-908

(USSR)

ABSTRACT:

Recently papers were published which deal with the localization of the acid phosphomonoesterase in a normal and in an injured nerve (Refs 3, 6, 7, 9, 10, 12, 15, 18, 19). This enzyme was found in a normal nerve fiber in the axon and in the medullary sheath. Several research workers assume that the intensified colorability of the nerve fiber in the central section of the cut through nerve is not a result of an intensified fermentative activity but the result of the variation of the physicochemical properties of the fibers. The alkaline phosphomonoesterase was found in the sheath of Schwann as well as in the axon (Refs 3, 6, 10, 15, 18). The present paper is to deal with the dynamics of the phosphomonoesterases as mentioned in the title. The results are to be compared with those obtained by the impregnation methods. For this purpose 78 experiments were

Card 1/3

Histochemistry of the Phosphomonoesterases During the Regeneration and Degeneration of a Nerve After Injury

carried out with the cutting through of the nervus ischiadicus of rabbits, cats, and dogs; and the nervus ischiadicus of two persons who died of diseases was used. The preparations were extracted 1,3,6,10,15,20,25, and 30 days and 1,5; 2; 2,5; 4, and 6 months after the operation. 5 variants were tested in order to choose an optimum method of the preparation of cuts. The best results were obtained by the fourth variant: cuts from a recently frozen in nerve, fixation of the cuts in alcohol, rinsing, incubation, and by the fifth variant: film preparation from fresh nerve, fixation etc (see point Nr 4), 12 . Control investigations 1-10 were carried out in order to eliminate the feared (diffusion- and adsorption) artifacts. The comparison of the aforesaid facts with own data and those given in other papers obtained by means of the impregnation method make possible the conclusion that the increase of activity of the acid phosphatase takes place in the zone of an intensified regeneration of neutral branches (in the injured as well as in the new nerves as well as in growthclubs). The author believes that these facts confirm the

Card 2/3

Histochemistry of the Phosphomonoesterases Buring the Regeneration and Degeneration of a Nerve After . Injury

hypothesis (Ref 11) according to which the metabolism in the zone of regeneration of nerve fibers is increased and the synthesis predominates. It is a local increase of metabolism which is not effective in the entire axon. Initially it is observed even in the case of lacking connection with the nerveautonomy of this process (Ref 11), since (Refs 10,13) variations of the fermentative activity take place at the other end of the cut off neuron in the nerve-cellular body as well. are Soviet.

ASSOCIATION:

Novosibirskiy institut vosstanovitel'noy khirurgii (Novosibirsk Institute of Restitutive Surgery)

PRESENTED:

November 19, 1958, by N. N. Anichkov, Academician

SUBMITTED:

July 7, 1958

Card 3/3

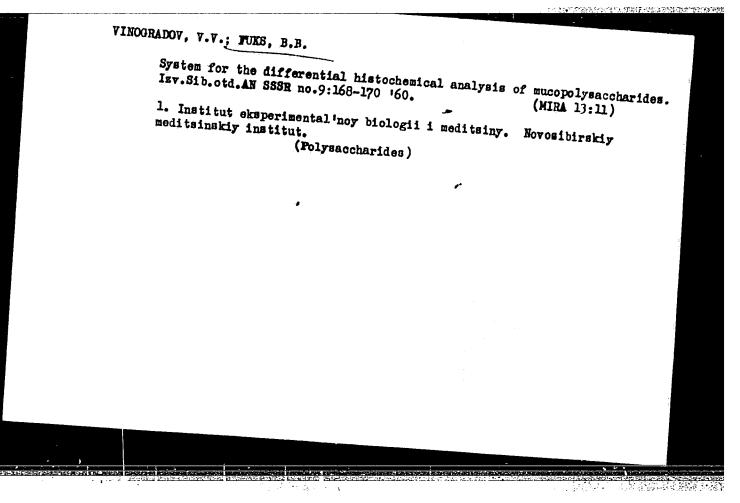
FUKS, B. B., RCLAYEVA, S. G.

24/11/14

"The Histochemistry of Proteins During Growth Changes and the Regeneration of the Connective Tissue of the Skin and Aorta in Humans and Animals."

report submitted for the First Conference on the problems of Cyto and Histochemistry, Moscow, 19-21 Dec 1960.

Laboratory of Histochemistry, Division of Experimental Biology and Pathology of the Institute of Experimental Biology and Medicine, Siberian Division, Academy of Sciences USSR, Novosibirsk.



DERIBAS, V.I.; FUKS, B.B.; SHISHKIN, G.S.

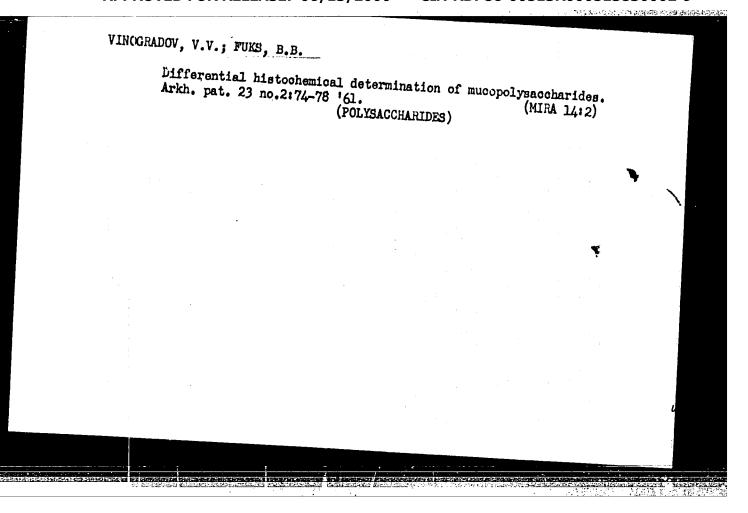
Activation of lipolytic enzymes in the wall of the human aorta in atherosclerosis. Dokl. AN SSSR 134 no.2:443-444 S '60.

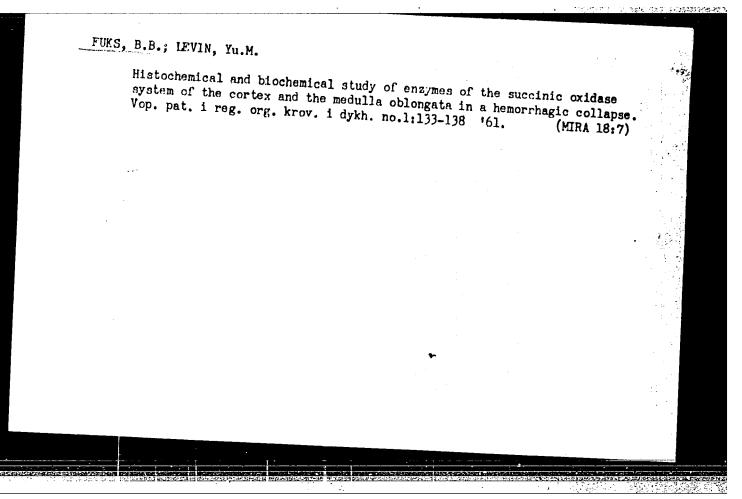
(MIRA 13:9)

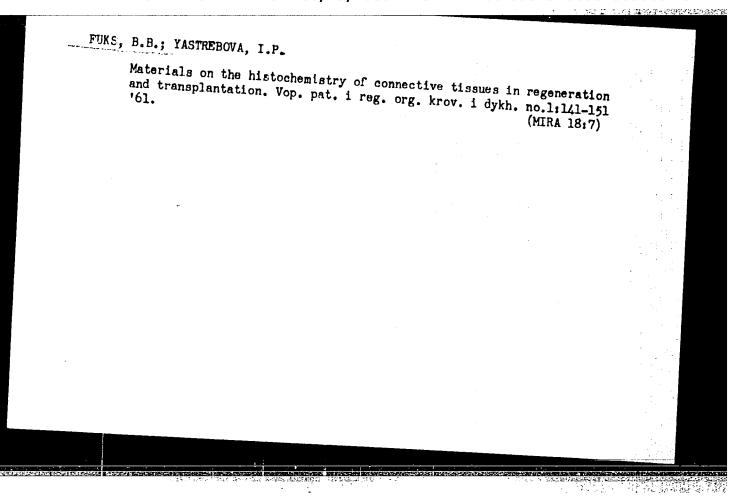
1. Institut eksperimental noy bilogii i meditsiny Sibirskogo otdeleniya Akademii nauk SSSR. Predstavleno akad. N.N. Anichkovym.

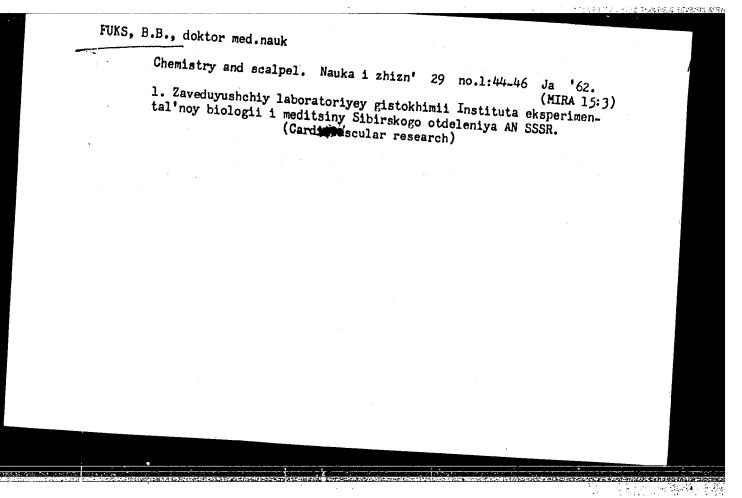
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	Histochemiatry of typesine and the same of typesine and typesine and typesine and typesine and the same of typesine and
	Histochemistry of tyrosine and distiding during the regeneration of connective tussues. Dokl. AN SSSR 135 no.3:747-749 N 160.
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MESHALKIN, Ye.N.; FUKS, B.B.; STEFANOVICH, L.Ye.; SERGIYEVSKIY, V.S.; KONSTANTINOVA, I.V.; DEVOYNO, L.V.; MEDVEDEV, I.A.

Using proteirase-treated collagenous and elastic "carcasses" from heterologous material for vascular grafts. Izv. Sib. otd.

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1. Institut eksperimental'noy biologii i meditsiny Sibirskogo otdeleniya AN SSSR, Novosibirsk.

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"这些是你是我们的是我们的是我们的是我们的是我们的,我们就是我们的是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们

FUKS, B.B.; KONSTANTINOVA, I.V.; STEFANOVICH, L.Ye.; DEVOYNO, L.V.; SERGIYEVSKIY, V.S.; FALK, I.G.; MODYAYEV, V.P.

Influence of some factors on the growth and differentiation of the connective tissue in the regeneration of the cornea, aorta, tendons and bones in biological frameworks. Dokl. AN SSSR 152 no.5:1260-1262 0 '63. (MIRA 16:12)

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Dept of Experimental Biology, Inst of Cytology & Tenetics, AS USSR, Novosibirsk 72.

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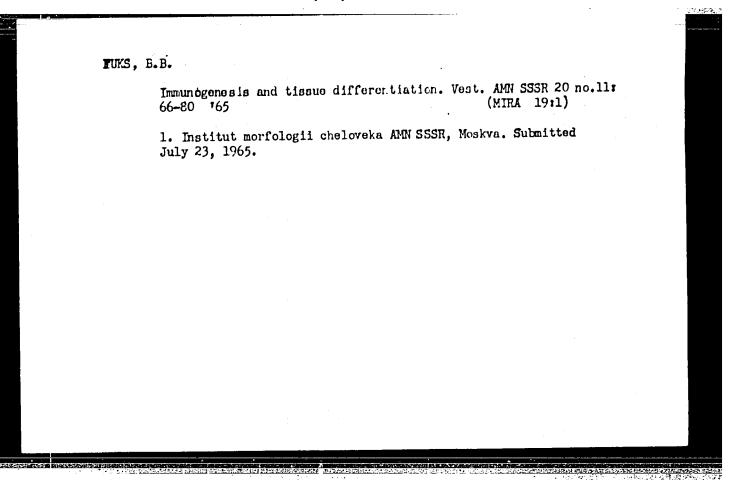
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1. Iz laboratorii gistokhimii (zav. - doktor med. nauk B.B. Fuks) Instituta eksperimental'noy biologii i meditsiny (dir. - prof. Ye.N. Meshalkin) Sibirskogo otdeleniya AN SSSR i laboratorii nukleinovykh kislot (zav. - kand. med. nauk R.I. Salganik) Instituta tsitologii i genetiki (dir. K.D. Belyayev).

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1. Institut morfologii cheloveka AMN SSSR, Moskva.



PUKS, B.I., professor

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1. Is laboratorii onkologii (zav. - chlen-korrespondent AMN SSSR prof. L.M. Shabad) Instituta normalinoy i patologicheskoy morfologii AMN SSSR i kafedry onkologii (zav. - prof. B.I. Tuks) Novosibirskogo instituta usovershenstvovaniya vrachey.

(CARCINOGENS.

o-aminoazotoluene with chloroform)

(TOLUENE, derivatives,

o-aminoazotoluene, carcinogenic eff., with chloroform)

(CHLOROFORM, effects,

carcinogenic, with o-aminoazotoluene)

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FUKS, B.I.; PERKIN, E.M.; KAN'SHINA, N.F.

Experimental histochemical analysis of the development of ischemic necrosis and a cicatrix of the myocardium. Dokl.AN SSSR 145 no.5:1154-1157 '62. (MIRA 15:8)

l. Novokuznetskiy institut usovershenstvovaniya vrachey i Institut eksperimental'noy biologii i meditshy Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom N.N.Anichkovym. (HEART—NECROSIS) (HISTOCHEMISTRY)

ASHKINUZI, Zus' Kivovich; MAMUNYA, Anton Ustinovich; SEMERNYA, Vladimir Mikhaylovich; YANOVSKIY, Vitaliy Sergeyevich; MALCHENKO, A.L., doktor tekhn. nauk, prof., spetss red.; FUKS, B.K., red.; PEREDERIY, S.P., tekhn. red.

[Continuous rapid cooking of starchy raw materials in the distilling industry] Nepreryvnoe skorostnoe razvarivanie krakimalistogo syr'ia v spirtovom proizvodstve. Moskva, Pishchepromizdat, 1960. 54 p.

(MIRA 14:10)

(Distillation)

FUKS, D.A., inzh.; NOVODEREZHKIN, V.V., inzh.; SHEYNINA, F.B., inzh.; IZRAILEVA, E.S.; DUROV, V.P., inzh.

New method for using storage batteries in electric power stations and substations. Energetik 12 no.7:27-29 J1 164. (MIRA 17:9)

VINOGRADOV, A.: DELONE, B.: FUKS, D.B

Rational approximations of irrational numbers with bounded partial quotients. Dokl.AN SSSR 118 no.5:862-865 F '58. (MIRA 12:1)

1. Chlen-korrespondent AN SSSR (for Delone).
(Numbers, Theory of)

10

16(1) AUTHORS:

Fuks, D.B., and Shvarts, A.S.

507/20-125-2-11/64

TITLE:

Cyclic Products of the Polyhedron and the Imbedding Problem (Tsiklicheskiye stepeni poliedra i problema vlozheniya)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 2, pp 285-288 (USSR)

ABSTRACT:

Let K be a polyhedron, p - prime number; K^p = Kx...xK be the product of p polyhedra K; let $t:K^p \to K^p$ be a transformation with the period p defined by the formula $t(x_1, x_2, \dots, x_p) =$ = $(x_2, ..., x_p, x_1)$; let $Z_p(K)$ be the p-th cyclic power of the polyhedron K, i.e. that space arising from K^p if the points equivalent with respect to the transformation t are identified; let $\pi: K^p \to Z_p(K)$ be the natural projection; let $i: K \to K^p$ be the diagonal imbedding; $i(x) = (x, \dots, x)$; $i' = \pi i$.

The author calculates the spectral sequence of the cohomologies with compact carriers with respect to the modulus p of the

regular covering $\pi_{:K}^{p}(K) \rightarrow Z_{p}(K)^{i}(K)$. Some applications of

Card 1/2

Cyclic Products of the Polyhedron and the Imbedding Problem

SOV/20-125-2-11/63

the obtained results are mentioned. The results partly overlap with those of Giorgiutti / Ref 6 / and Wu Wen-tsün / Ref 1,2,3/. There are 8 references, 2 of which are French, 2 American, 1 Japanese, and 3 Chinese.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova, Voronezhskiy gosudarstvennyy universitet (Moscow State University

imeni M.V. Lomonosov; Voronezh State University)

PRESENTED: November 28, 1958, by P.S. Aleksandrov, Academician

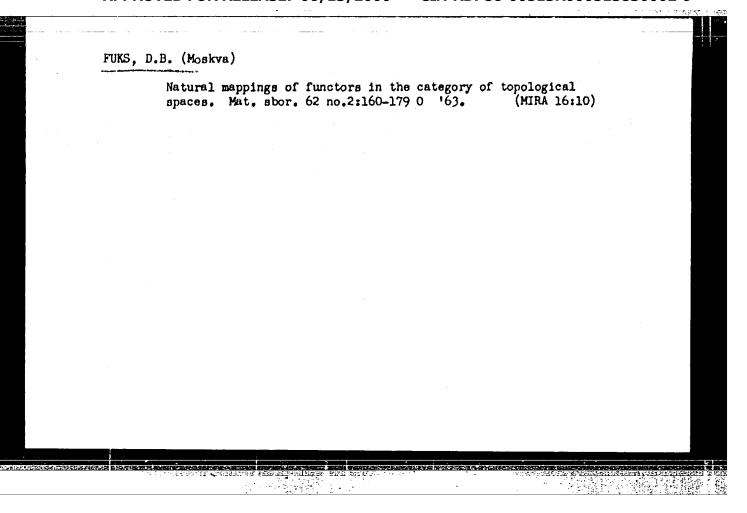
SUBMITTED: November 23, 1958

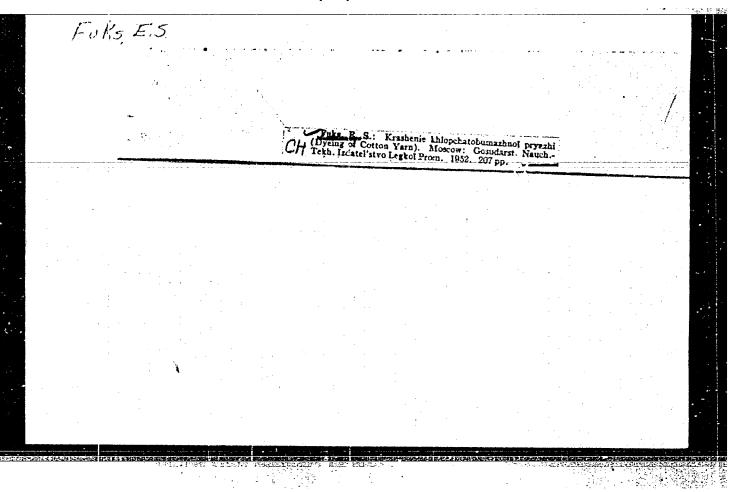
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FUKS, D.B.

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PUKS, Mumanuil Solomonovich; ARKHANGEL'SKIY, S.S., redaktor; NEKRASOVA U.I., Vekhnicheskiy redaktor.

[PK-1 yarn dyeing apparatus]Priashekrasil'nyi apparat PK-1.
Moskva, Gos.nauchno-tekhn.isd-vo Ministerstva promyshl.tovarov
shirokogo potrebleniia SSSR, 1955. 107 p. (MLRA 8:10)
(Dyes and dyeing-Apparatus)

POLYANSKAYA, O.V.; FUKS, E.Ye., kand.med.nauk

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Hospital No.10. Zdrav. Ros. Feder. 5 no.9:7-10 S '61.
(MIRA 14:9)

1. Iz rodil'nogo doma No.10 Moskvy.
(MOSCOM—HOSPITALS—STAFF)

POLYANSKAYA, O.V., kand.med.nauk; FUKS, E.Ye. (Moskva)

Improved efficiency in medical documentation in the maternity home. Sov.zdrav. 21 no.10:58-59 '62. (MIRA 15:10)

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TULYAGANKHODZHAYEV, A. (Tashkent); FUKS, G., obshchestvennyy kontroler (Tashkent)

Corrections dictated by life. Sov. torg. 36 no.8:41-42 Ag '63. (MIRA 16:11)

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