

ALEKSEYEV, F. A.

89-3-16/30

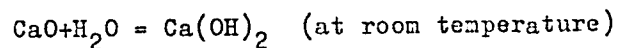
AUTHORS: Alekseyev, F. A. , Soyfer, V. N. , Filonov, V. A.  
Finkel'shteyn, Ya. B.

TITLE: Experimental Application of Tritium as a Detector of Oily Water (Opyt ispol'zovaniya tritiya kak indikatora plastovykh vod)

PERIODICAL: Atomnaya Energiya, 1958, Vol. 4, Nr 3, pp. 298 - 301 (USSR)

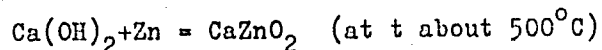
ABSTRACT: 3 ampules of 1 C tritium each were introduced successively into the water of the borehole. Two hours later the oily water to be investigated was taken out. At first this water was twice distilled in order to separate the possibly existing natural radioactive salts and additions of oil. 10 - 16 ml of this water were reduced to from 0,4 to 0,6 ml in a separately described electrolyzing apparatus. The electrolysis brings about a tritium concentration 7 - 10 times as strong. By the two following reactions H was separated from the samples concentrated by tritium:

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Experimental Application of Tritium as a Detector of Oily Water



The gas samples thus obtained were filled into a counting tube of 0,5 l (pressure 100 - 200 mm), into which ethylene is added, at 10 - 15 mm mercury column partial pressure. The operational voltage of this counting tube is at 1500 - 1800 V and the plateau at 100 - 150 V with 3 % slope. After an especially careful screening tritium could be proved. Altogether in a concrete case 400 samples from 8 boreholes could be checked. From these measurements the velocity at which the water marked by tritium distributes under the earth could be computed. There are 4 figures, 3 references, 0 of which are Slavic.

SUBMITTED: July 30, 1957

AVAILABLE: Library of Congress

1. Water-Oil detection    2. Tritium-Applications

Card 2/2

ALEKSEYEV, F.A.

P.2-3-4-5

PHASE I BOOK EXPLOITATION

SOV/3600

Yadernaya geofizika; sbornik statey po ispol'zovaniyu radioaktivnykh izlucheniya i izotopov v geologii nefti (Nuclear Geophysics; Collection of Articles on the Use of Radioactive Radiation and Isotopes in Petroleum Geology) Moscow, Gostoptekhizdat, 1959. 370 p. Errata slip inserted. 4,000 copies printed.

Ed.: F.A. Alekseyev, Professor, Doctor of Geological and Mineralogical Sciences;  
Exec. Ed.: A.P. Kalantarov; Tech. Ed.: A.S. Polosina.

PURPOSE: This book is intended for petroleum geologists, geophysicists and scientists engaged in geological research who are interested in radiometric techniques of petroleum prospecting.

COVERAGE: The collection contains 28 articles compiled by staff members and aspirants of the Laboratory for Nuclear Geology and Geophysics of the Petroleum Institute (now the Institute for Geology and Mineral Fuel Processing) of the Academy of Sciences USSR, the Laboratory for Radioactive Logging of the All-Union Scientific Research Institute of Geophysics, and the heads of councils for planning research projects for petroleum enterprises. The articles treat new material on radiometric surveying in petroleum geology, describe radio-

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Nuclear Geophysics; (Cont.)

SOV/3600

metric instruments (counters, etc.) for registering neutrons and gamma rays, give the results of research with models of rock strata, introduce fundamentals of a new method for effectively utilizing radioactivity in the analysis of rock samples from petroleum-survey bore holes, etc. Problems of method in the study and interpretation of radiometric measurements in bore holes are reviewed, as well as the results of studies in the nonabsorption of tritium in tracing the movement of petroleum and water in a stratum. Finally, a new method of surveying based on measuring the radioactivity of the surface of a prospective petroleum deposit is described. No personalities are mentioned. References accompany each article.

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Nuclear Geophysics; (Cont.)

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ALEKSEYEV, F. A., SOKOLOV, V. A., BARS, E. A., GHODEKIAN, A. A.,  
MOGILEVSKIY, F. A., YUROVSKIY, YASENEV, B. P. (SECTION I)

"Investigations of Direct Oil-Finding Methods."

Report submitted at the Fifth World Petroleum Congress, 30 May -  
5 June 1959. New York.

ALEKSEYEV, F. A., FLEROV, G. N., DAKHNOV, V. N., GULIN, Y. A., SHINELEVICH, Y. S.

"Using the Method of Atomic Physics in Oil Prospecting and Production."

Report submitted at the Fifth World Petroleum Congress, 30 May -  
5 June 1959. New York.

3(8)

SOV/9-59-2-15/16

AUTHORS: Alekseyev, F., Kupalov-Yaropolk, I., and Lyapunova, N.

TITLE: A Formal Approach to Problems on the Efficiency of Geophysical Prospecting for Oil and Gas (Formal'nyy podkhod k voprosam effektivnosti geofizicheskikh rabot na neft' i gaz)

PERIODICAL: Geologiya nefti i gaza, 1959, Nr 2, pp 68-71 (USSR)

ABSTRACT: This is a critical review of a book by P.T. Kozlov named "The Development of Geophysical Prospecting Methods in USSR Oil Industry", published by the GOSINTI Publishing House in 1957.

Card 1/1

ALEKSEYEV, F. A., GOLBEK, G. R., SEYFER, V. N., VASILYEVA, N. A., MAYDEBOR, V. N.,  
SOKOLOVSKIY, O. V., SHANGIN, N. M. (USSR)

"Tritium in Underground Water Studies."

report presented at the Conference on Radioisotopes in Metallurgy and Solid State Physics, IAEA, Copenhagen, 6-17 Sept 1960.

ALEKSEYEV, F.A., prof., doktor geol.-miner.nauk, red.; KUZ'MINA, N.N.,  
vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Nuclear geophysics in mineral prospecting; new radioactive  
methods of investigation] Iadernaya geofizika pri poiskakh  
poleznykh iskopaemykh; novye radioaktivnye metody issledovaniya.  
Moskva, Gos.nauchno-tekhn.izd-vo nef. i gorno-toplivnoi lit-ry,  
1960. 286 p. (MIRA 13:11)  
(Prospecting--Geophysical methods) (Nuclear geophysics)

ALEKSEYEV, F.A.; DENISIK, F.TS.

Radioactive methods of controlling the exploitation of oil deposits.  
Trudy VNII no.29:32-43 '60. (MIRA 13:10)

1. Institut geologii i razrabotki goryuchikh iskopayemykh AN SSSR.  
(Oil well logging, Radiation)

S/169/61/000/011/027/065  
D228/D304

AUTHORS: Alekseyev, F.A., Yerozolimskiy, B.G., Besspalov, D.F.,  
Bondarenko, L.N., Boytsik, L.P., Popov, N.V.,  
Khaustov, A.I., Romanovskiy, V.F., Shimelevich, Yu.S.  
Shkol'nikov, A.S., and Yudin, L.I.

TITLE: The result of applying neutron impulse methods and  
apparatus for investigating borehole logs

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 34,  
abstract 11A304 (V sb. Yadern. geofiz. pri poiskakh  
polezn. iskopayemykh, M., Gostoptekhizdat, 1960, 3-20)

TEXT: A borehole impulse generator of neutrons is described toge-  
ther with the method of impulse-neutron neutron-logging (INNLL). A  
description is given for the electronic layout of the borehole ge-  
nerator of neutrons and the surface apparatus for impulse neutron  
logging. During laboratory tests of the generator a stable mean neu-  
tron yield of  $\sim 2 \times 10^7$  neutr./sec. was obtained at 100 kv. of acce-  
lerating voltage in the tube. The impulse duration amounted to 100

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The result of applying neutron ...

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μsec, the transmission frequency being 400 c/s. The neutron generator was used in the commercial testing of INNL. INNL readings against oil-bearing beds exceed by 10 times those for aquiferous beds containing mineralized water, at a delay time of 1000 μsec. Certain impediments and limitations of thermal impulse neutron-logging in different oil- and water-saturated beds are indicated, and the requirements for the apparatus are stated. Further prospects are indicated for the application of impulse neutron generators. [Abstractor's note: Complete translation].

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ALEKSEYEV, F.A.

Use of radioisotopes and nuclear radiations in prospecting and in  
the processing of mineral resources. Atom.energ. 9 no.3:222-223  
S '60. (MIRA 13:8)

(Mineral industries)

(Prospecting)

(Radioisotopes--Industrial applications)

ABRAMYAN, S.L.; AKSEL'ROD, S.M.; ALEKSEYEV, E.A.; AL'TSHEL', S.A. [deceased],  
BESPALOV, D.F.; GADZHI-KASIMOV, A.S.; ZHILIN, K.A.; LISTENGARTEN, B.M.;  
ODINOKOV, V.P.; PUTKARADZE, L.A.; SHIMELEVICH, Yu.S.

Neutron-neutron pulse method for investigating wells and results of  
its use in the Balakhan'-Sabunchi-Ramany field. Azerb. nef. khoz.  
39 no.11:9-13 N '60. (MIRA 13:12)  
(Apsheron Peninsula--Oil well logging. Radiation)

ALEXSEYEV, F.H.

PHASE I BOOK EXPLOITATION SOV/5592

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniye v narodnom khozyaystve SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy Vsesoyuznogo soveshchaniya 12 - 16 aprelya 1960 g. g. Riga, v 4 tomakh. t. 4: Poiski, razvedka i razrabotka poleznykh iskopayemykh (Radioactive Isotopes and Nuclear Radiation in the National Economy of the USSR; Transactions on the Symposium Held in Riga, April 12 - 16, 1960, in 4 volumes. v. 4: Prospecting, Surveying, and Mining of Mineral Deposits) Moscow, Gostoptekhzdat, 1961. 284 p. 3,640 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskyy komitet Soveta Ministrov SSSR. Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii

Eds. (Title page): N. A. Petrov, L. I. Petrenko, and P. S. Savitskiy; ed. of this volume: M. A. Speranskiy; Scientific ed.: M. A. Speranskiy; Executive Eds.: N. N. Kuz'mina and A. G. Ionel';

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Radioactive Isotopes and Nuclear (Cont.)

SOV/5592

Tech. Ed.: A. S. Polosina.

**PURPOSE :** The book is intended for engineers and technicians dealing with the problems involved in the application of radioactive isotopes and nuclear radiation.

**COVERAGE:** This collection of 39 articles is Vol. 4 of the Transactions of the All-Union Conference of the Introduction of Radioactive Isotopes and Nuclear Reactions in the National Economy of the USSR. The Conference was called by the Gosudarstvennyy nauchno-tekhnicheskiy komitet Sovet Ministrov SSSR (State Scientific-Technical Committee of the Council of Ministers of the USSR), Academy of Sciences USSR, Gosplan SSSR (State Planning Committee of the Council of Ministers of the USSR), Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee of the Council of Ministers of the USSR for Automation and Machine Building), and the Council of Ministers of the Latvian SSR. The reports summarized in this publication deal with the advantages, prospects, and

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Radioactive Isotopes and Nuclear (Cont.)

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development of radioactive methods used in prospecting, surveying, and mining of ores. Individual reports present the results of the latest scientific research on the development and improvement of the theory, methodology, and technology of radiometric investigations. Application of radioactive methods in the field of engineering geology, hydrology, and the control of ore enrichment processes is analyzed. No personalities are mentioned. There are no references.

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Studying Geological Sections of Petroleum, Gas, Ore, and Coal  
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Application of Radiometric Methods in Prospecting, Surveying, and  
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Alekseyev, F. A., D. F. Besspalov, B. M. Burov, B. G. Yerozolim-  
skiy, N. V. Popov, Yu. S. Shimelevich, and A. S. Shkol'nikov.  
Pulse-Type Neutron Method for Investigating the Geological  
Sections of Boreholes 55

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S/169/62/000/005/041/093  
D228/D307

AUTHORS: Alekseyev, F. A., Gulin, Yu. A., Dakhnov, V. N., Fle-  
rov, G. N. and Shimelevich, Yu. S.

TITLE: Use of methods of atomic physics in seeking and ex-  
ploiting oil and gas

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 39, ab-  
stract 5A294 (V. sb. 5-y Mezhdunar. neft. kongress,  
v.I, M., Gostoptekhizdat, 1961, 325-338)

TEXT: The results of the application of radioactive methods in the  
oil and gas industry are reviewed. The accuracy of estimating the  
rock porosity from radioactivity logging data depends on a number  
of causes of a geologic and a tectonic character: The salinity of  
the stratal waters and the drilling solution, the chemical compo-  
sition of the rocks, borehole-design, the position of the instru-  
ment in it, etc. The depth potential of all radioactivity logging  
methods is very small: In neutron-gamma logging it comprises 10 -  
-30 cm, while in gamma-gamma logging it is 5 - 8 cm. It is noted

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Use of methods ...

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that in porosity measurements the gamma-gamma logging and the neutron-neutron logging methods are more sensitive than neutron-gamma logging, especially in the region of high porosity values. Side by side with the advantages of the methods of neutron-neutron logging and gamma-gamma logging against neutron-gamma logging (the absence of any influence of the mineralization of stratal waters and drilling solutions on the readings, the high sensitivity) they have an essential defect -- to wit, the strong influence of the borehole design on the measurements results. The reliability of the results of porosity determinations rises considerably if a complex, consisting of neutron-neutron and gamma-gamma logging, is used. A complex device, whose design is given and which ensures the simultaneous recording of neutron-neutron and gamma-gamma logging diagrams, has recently been developed; it is intended for obtaining data about the rock porosity in unstrengthened wells. The movement of the oil-water and the gas-liquid contact zone during the exploitation of oil and gas fields can be successfully followed by means of radiometric methods. The most sensitive method of separating sand and carbonate beds into the oil- and water-bearing parts at

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Use of methods ....

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the present time is the induced activity technique, whose survey depth amounts to 15 - 20 cm. The methods of neutron-gamma logging and neutron-neutron logging are less sensitive; they are being used in fields with sandy collectors, saturated with highly mineralized stratal waters containing more than 150 g/l of NaCl. At the present time it has become possible to determine quite rapidly and accurately the content of Al, Na, Cl, Si, Ca, Mg, Fe, Cu, Br, I, Dy, Eu, V, and other elements in rock samples by radioactive methods, using powerful neutron sources. Radioactive isotopes are being applied in oil-industrial practice to control a well's technical state, to fracture beds hydraulically, and to solve other geologico-technical problems in petroleum extraction. Research into the possibility of applying radiometry for direct oil and gas searches is cited. It is established that in the vicinity of oil fields radiometric anomalies are a particular case of the general geochemical anomaly indigenous to the latter. Hence the radiometric method should be considered as a composite part of the radio-geochemical procedure for seeking oil and gas fields. [Abstracter's note: Complete translation.]

Card 3/3

FLEROV, G. N., and ALKHOV, E. A.

"Present state and trends of further development of nuclear geophysics."

report to be submitted for the Conference on Nuclear Geophysics,  
Krakow, Poland, 24-30 Sept 1962.

ALEKSEYEV, Fedor A. and GOTTIK, R. P.

"On the Nature of Radioactive Anomalies over Gas and Oil Fields."

report to be submitted for the Conference on Nuclear Geophysics,  
Krakow, Poland, 24-30 Sept 1962.

ALEKSEYEV, Fedor A., BESPALOV, D. F., SHIMELZVICH, Yu. S.  
SHKOLNIKOV, A. S. and BREKHRODOLSKIY, D. M.

"The Neutron-neutron Pulse Well-logging."

report to be submitted for the Conference on Nuclear Geophysics,  
Krakow, Poland, 24-30 Sept 1962.

ALEKSEYEV, F.A., doktor geol.-miner. nauk, prof., red.; FILONOVA,  
V.A., kand. geol.-miner. nauk, red.; IONEL', A.G., ved.  
red.; FEDOTOVA, I.G., tekhn. red.

[Nuclear geophysics; 1961 issue]Iadernaia geofizika; vypusk  
1961 g. Moskva, Gostoptekhnizdat, 1962. 229 p.  
(MIRA 16:3)

(Nuclear geophysics)

ALEKSEYEV, F.A., POLSHKOV, M.K., RYABINKIN, L.A.

Progress in geophysical prospecting for petroleum and gas in the USSR  
( 1959-1962)

Report to be submitted for the Sixth World Petroleum Congress,  
Frankfurt, 16-26 June 63

ALEKSEYEV, F.A., doktor geol.-miner. nauk, prof., red.; KANTOR,  
S.A., kand. tekhn. nauk, red.; KUZ'MINA, N.N., ved. red.;  
POLOSINA, A.S., tekhn. red.

[Nuclear geophysics, 1963] Iadernaia geofizika; vypusk 1963.  
Moskva, Gostoptekhizdat, 1963. 246 p. (MIRA 16:12)  
(Nuclear geophysics)

ALEKSEYEV, F.A.; LEBLDEV, V.S.

Isotopic composition of carbon in oil and natural gas. Geol. nefiti  
i gaza 8 no.7:28-30 J1 '64. (MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geofiziki  
i geokhimii Ministerstva geologii i okhrany nefti SSSR.

*Dr. Sc. Dr. h. c. Nuclear Geophysics  
& Geochemistry*



ALEKSEYEV, F.A., prof., red.; MOGILEVSKIY, G.A., kand. geol.-  
minér. nauk, red.; FEDOROVA, L.N., ved. red.

[Direct methods for prospecting for oil and gas] Priamye  
metody poiskov nefiti i gaza. Moskva, Nedra, 1964. 129 p.  
(MIRA 17:12)

ALEKSEYEV, F.A.; GORBUSHINA, L.V.; OVCHINNIKOV, A.M.; TYMINSKIY, V.G.

Helium potential of waters in the Tashkent artesian basin.  
Izv. vys. ucheb. zav.; geol. i razv. 8 no. 12:95-97 D '65  
(MIRA 19:1)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze  
i Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geo-  
fiziki i geokhimii.

ALEKSEYEV, F.A.

How we drilled eight deep wells in 1955. Neft.khoz.34 no.3:56-59  
Mr '56. (MIRA 9:7)

1. Burevoy master komtory bureniya No.1 tresta Tuymazaburneft'.  
(Oil well drilling)

АЛЕКСЕЕВ, П.И.  
KONSHIN, K.I.; ALEKSEYEV, P.A.

Why are subsidiary farms unprofitable? Nauka i pered. op. v sel'khoz.  
7 no.2:66-68 F '57.

(Agriculture--Economic aspects)

(MLRA 10:3)

L 06197-67 ESS-2/ENT(1)/EWP(v)/EWP(t)/ETI/EJP(k) DS/JD/HM

ACC NR: AP6032489

SOURCE CODE: UR/0413/66/000/017/0030/0030

INVENTOR: Alekseyev, F. A.; Balashov, V. A.; Gershonok, M. I.; Grachev, I. M.;  
Yegorov, B. A.; Kobyl'nitskaya, M. I.; Kozlov, D. A.; Lifshits, A. I.; Mondrus, D. B.;  
Parshin, N. A.; Rashevskiy, A. L.; Rivkin, A. E.; Tal'gren, A. A.; Khansuvarov, A. A.

ORG: none

TITLE: Device for high frequency soldering of lead-acid storage batteries. Class 21,  
No. 185368

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 30 52  
B

TOPIC TAGS: metal soldering, storage battery

ABSTRACT: An Author Certificate has been issued for a device for high-frequency soldering of lead-acid storage batteries. The device contains an h-f generator with an external tank circuit, a multiloop inductor with open ferrite magnetic circuits, a conveyor with a lifting table, a control desk, and an assembling-soldering former equipped with a magnetic screen fastened on a non-magnetic base. Orig. art. has: 1 figure.

Card 1/2

UDC: 621.352.2:621. 791.357:621.3. 029.5

ALEKSEYEV, F.K., gornyy inzhener

Materials and equipment deliveries to quarries. Gor.zhur. no.7:63  
Jl '55. (MIRA 8:8)  
(Mine haulage)

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000100920010-8

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000100920010-8"

ALEKSEYEV, F.K., gornyy inzhener.

Advisability of shifting protective embankments in open pits of  
the Southern Krivoy Rog Mining and Ore Dressing Combine. Gor.  
zhur. no.7:39-41 J1 '57. (MLRA 10:8)

1. Krivorozhskiy gornorudnyy institut.  
(Krivoy Rog--Strip mining)



ALEKSEYEV, F.K., gornyy inzh.

Indispensable block length for excavators in Krivoy Rog open pit  
mining and ore-dressing combines. Gor. zhur. no.2:7-9 F '58.

(MIRA 11:3)

1. Krivorozhskiy gornorudnyy institut.  
(Krivoy Rog--Iron mines and mining)  
(Excavating machinery)

Cand

ALEKSEYEV, F. K. ~~Doc~~ Tech Sci -- "Analysis of the performance of excavators in  
the quarries of the USSR and means of raising their productivity in the pits of  
mine-concentration combines of the Krivoy Rog." Mos, 1960 (Min of Higher and  
Secondary Specialized Education RSFSR. Krasnoyarsk Inst of Nonferrous Metals  
im M. I. Kalinin). (KL, 1-61, 191)

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ALERSIYEV, F.K., inzh.; YERKHCHENKO, A.A., inzh.; PIRICH, V. Ye., inzh.;  
PROKHODA, V.S., inzh.

Variation in the accelerated development of the horizon  $\pm 0m$  at  
the IUGOK open-pit mine. Sbor. nauch. trud. EGRI no.10:115-122 '61  
(MIRA 17:8)

ALEKSEYEV, F.K.; CHUMAKOV, V.A.

Ways of increasing the efficiency of dressing ore quartzites.  
Gor. zhur. no.1:67-69 Ja '62. (MIRA 15:7)

1. Inguletskiy gorno-obogatitel'nyy kombinat.  
(Ore dressing)  
(Krivoy Rog Basin--Quartzites)

ALEKSEYEV, F.K., kand.tekhn.nauk; MALYUTA, D.I., inzh.

"Improving the technical methods and equipment in open-pit  
mining of iron-ore deposits" by M.G.Novozhilov, V.G.Selianin.

Reviewed by F.K.Alekseev, D.I.Maliuta. Izv. vys. uch. zav.;  
gor. zhur. 5 no.6:194-196 '62. (MIRA 15:9)  
(Iron mines and mining) (Selianin, V.G.)

ALEKSEYEV, F. K., kand. tekhn. nauk; MALYY, I. S., gornyy inzh.;  
MORDOVETS, N. S., gornyy inzh.

New method of digging ditches in inundated rocks. Gor. zhur.  
no.10:74 0 '62. (MIRA 15:10)

1. Inguletskiy gorno-obogatitel'nyy kombinat.

(Krivoy Rog Basin--Ditches)

ALEKSEYEV, F.K., kand. tekhn. nauk; MORDOVETS, N.S., inzh.;  
~~MALYY, I.S., inzh.~~

Improving the technology of mining operations at the  
Ingulets Mining and Ore Dressing Combine. Met. i gornorud.  
prom. no.5:48-52 S-O '63. (MIRA 16:11)

U  
ALEKSEYEV, F.K.; ANDRIYUTS, G.L.; ARSENT'YEV, A.I.; ASTAF'YEV, Yu.P.;  
BEVZ, N.D.; BEREZOVSKIY, A.I.; GENERALOV, G.S.;  
DOROSHENKO, V.I.; YESHCHENKO, A.A.; ZAPARA, S.A.; KALINICHENKO, V.F.;  
KARNAUSHENKO, I.K.; KIKOVKA, Ye.I.; KOBOZEV, V.N.; KUPIN, V.Ye.;  
LOTOUS, V.K.; LYAKHOV, N.I.; MALYUTA, D.I.; METS, Yu.S.; OVODENKO,  
B.K.; OKSANICH, I.F.; PANOV, V.A.; POVZNER, Z.B.; PODORVANOV, A.Z.;  
POLISHCHUK, A.K.; POLYAKOV, V.G.; POTAPOV, A.I.; SAVITSKIY, I.I.;  
SERBIN, V.I.; SERGEYEV, N.N.; SOVETOV, G.A.; STATKEVICH, A.A.;  
TERESHCHENKO, A.A.; TITOV, O.S.; FEDIN, A.F.; KHOMYAKOV, N.P.;  
SHEYKO, V.G.; SHEKUN, O.G.; SESTAKOV, M.M.; SHTAN'KO, V.I.

Practice of construction and exploitation of open pits of Krivoy  
Rog Basin mining and ore dressing combines. Gor. zhur. no.6:  
8-56 Je '63. (MIRA 16:7)

(Krivoy Rog Basin—Strip mining)



ALEKSEYEV, F.K., kand. tekhn. nauk; MAL'YI, I.S., gornyy inzh.; MORDOVETS,  
N.S., gornyy inzh.

Blasting in a compressed medium at the strip mine of the  
Ingulets mining and ore dressing combine. Gor. zhur. no.11:  
25-29 N '63. (MIRA 17:6)

1. Inguletskiy gornobogatitel'nyy kombinat, Krivoy Rog.

NOVOZHILOV, M.G., doktor tekhn. nauk; LEBKOVANVA, M.K., kand. tekhn. nauk;  
YEFREMOV, E.I., inzh.; ALEKSEYEV, F.K., dokt. tekhn. nauk; MALYUTA,  
D.I., inzh.

Increasing mining rates during the construction of strip mines.  
Shakht. stroi. 8 no.7:23-24 J1 '64. (MIRA 17:10)

1. Inguletskiy gornobogatitel'nyy kombinat (for Alekseyev). 2.
- Novokrivorozhskiy gornobogatitel'nyy kombinat (for Malyuta).

ALEKSEYEV, F.K., gornyy inzh.; MORDOVETS, N.S., gornyy inzh.; MALYY, I.S.

Conducting boring and blasting operations with paired benches  
at the open pit mine of the Ingulets Mining and Ore Dressing  
Combine. Vzryv. delo no.54/11:246-253 '64. (MIRA 17:9)

1. Inguletskiy gornoobogatitel'nyy kombinat.

KANDYBA, M.I.; TURUTA, N.U.; ALEKSEYEV, F.K.; BLAGODARENKO, Yu.L.;  
BAKHTIN, O.B.; NESTEROV, P.G.

Taking into account the effect of seismic waves in the selection  
of a network of blastholes. Met. i gornorud. prom. no.1:  
54-55 Ja-F '64. (MIRA 17:10)

ALEKSEYEV, F.M.

The village of the Sedas peat enterprise is being improved.  
Torf. prom. 33 no.8:34-35 '56.

(MLRA 10:2)

1. Torfopredpriyete Sedas.  
(Villages)

25 (2,4)

SOV/66-59-3-16/31

AUTHOR: Alekseyev, G.

TITLE: Lifting Device for Carcasses

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 3, pp 61 - 63 (USSR)

ABSTRACT: The article describes the electrically-driven carcass lifting machine SPM-2, developed by VNIKhI and produced by the mechanical workshops of the Moskovskiy khladokombinat Nr 3 (Moscow Refrigeration Combine Nr 3). The meat gondolas are pulled along a monorail by a chain. This chain engages with a sprocket, which is driven by an electric motor. The length of the lift depends on the required height, which as a rule is 3,350 mm from the ground. In the Moskovskiy kholodil'nik Nr 9 (Moscow Refrigeration Plant Nr 9) four such lifting devices have been installed. The design of these machines has undergone certain alterations, which have increased their efficiency. There is one diagram.  
(N.B. In this article all measurements are quoted in millimeters).

Card 1/1

25(4)

SOV/66-59-4-13/28

AUTHOR: Alekseyev, G.

TITLE: Mechanization of Handling Operations in the Leningrad Refrigeration Warehouse

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 4, pp 51-52 (USSR)

ABSTRACT: The article describes the organization of material handling operations in the Leningrad refrigeration warehouse, of unloading RR cars by means of electrocars EKP-750, electric fork lift trucks 4004A and ZIO-1.5, elevators, roller conveyors, etc. A great handicap in the mechanization of warehouse transportation is the absence of standard packing boxes and of standard pallets. The result of it is that although the proper means of transportation exist, it is impossible to use them efficiently.

Card 1/1

KOTOV, V., inzhener; ALEKSEYEV, G.

Aging and frost resistance of bricks. Stroi.mat., izdel.i konstr.  
1 no.6:17-20 Je '55. (MLRA 9:1)

1.Nachal'nik Leningradskoy oblastnoy laboratorii stroitel'nykh  
materialov (for Alekseyev).  
(Bricks)



ALEKSEYEV, G.; MAYZLISH, R.

Drying and roasting bricks in ring kilns. Stroi.mat., izdel.i  
konstr. 2 no.1:31 Ja '56. (MLRA 9:5)

1. Leningradskaya oblastnaya laboratoriya stroitel'nykh materialov.  
(Kilns, Rotary)

ALEKSEYEV, G., kand.filosof. nauk, dotsent

Traditional principles of trade-union work. Sov. profsoiuzy  
18 no.17:23-24 S '62. (MIRA 15:8)

1. Moskovskaya vysshaya zaobnaya shkola professional'nogo  
dvizheniya Vsesoyuznogo tsentral'nogo soveta professional'nykh  
soyuzov.

(Trade unions)

ALEKSEYEV, G., inzh.

Scientific organization of labor is the basis of success.  
Rech. transp. 24 no.7:11-12 '65. (MIRA 18:8)

ALEKSEYEV, G., inzh.

Make every vessel profitable. Rech.transp. 23 no.9;2-3  
S '64.

(MIRA 19:1)

<sup>Y</sup>  
ALEKSEEV, G.A., V.A. ARSHINOV and E.A. SMOL'NIKOV  
<sup>A</sup>

Raschet i konstruirovaniye rezhushchego instrumenta. Dop. v kachestve uchebn. posobiia dlia mashinostroit. tekhnikumov. Moskva, Mashgiz, 1951. 602 p. illus.

Bibliographical footnotes.

Calculating and designing cutting tools.

DLC: Tj1230.A47

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

ARSHINOV, V.A., kandidat tekhnicheskikh nauk; ALEKSEYEV, G.A., inzhener,  
laureat Stalinskoy premii.

[Metal cutting] Resanie metallov. Moskva, Gos. nauchno-tekh. izd-vo  
mashinostroit. i sudostroit. lit-ry, 1953. 507 p. (MLRA 7:5)  
(Metal cutting)

SOKOLOVSKIY, I.A.; ALEKSEYEV, G.A., inzhener laureat Stalinskoi premii, retsenzent; MALOV, A.N., kandidat tekhnicheskikh nauk, redaktor.

[Cutting tool for instruments manufacturing] Rezhushchii instrument dlia priborostroeniia. Moskva, Gos. nauchno-tekh.izd-vo mashinostroita i sudostroita, lit-ry, 1954. 374 p. (MLRA 7:6)  
(Cutting tools)

SOKOLOVSKIY, I.A.; ALEKSEYEV, G.A., laureat Gosudarstvennoy premii  
inzh., retsenzent; LESNICHENKO, I.I., red.izd-va; MODEL',  
B.I., tekhn. red.

[Metal-cutting tools used in the manufacture of instruments]  
Rezhushchiy instrument dlia priborostroeniia. Izd.2., perer.  
i dop. Moskva, Mashgis, 1963. 485 p. (MIRA 16:8)  
(Metal-cutting tools)  
(Instrument manufacture)



PHASE I BOOK EXPLOITATION

SOV/5235

Arshinov, V. A., Candidate of Technical Sciences, and G. A. Alekseyev, Engineer

Rezaniye metallov (The Cutting of Metals) 3rd rev. ed. Moscow, Mashgiz, 1959. 490 p. 70,000 copies printed.

Ed.: M. N. Morozova, Engineer; Tech. Ed.: T. F. Sokolova; Managing Ed. for Literature on Metalworking and Machine-Tool Making: R. D. Beyzel'man, Engineer.

PURPOSE: This book is intended for use as a textbook at tool, machine-tool, and machine-building tekhnikums.

COVERAGE: The authors discuss the basic problems considered in the course "Metal Cutting." For each method of machining metals by cutting, the following are examined: the geometry of the cutting portion of the tool, the geometry of the layer of removed metal, chip formation, the forces acting in the cutting process, and the wear and service life of the cutting tool. Methods of determining

Card 1/12

# The Cutting of Metals

SOV/5235

the parameters of the cutting regime are also discussed. V. A. Arshinov wrote chapters I to XIV and XVIII; G. A. Alekseyev-- Chapters XV to XVII. No personalities are mentioned. There are 221 references, all Soviet.

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188100 2708

23325  
S/095/61/000/001/003/004  
A053/A129

AUTHOR: Alekseyev, G. A., Engineer (Rostov on Don)  
TITLE: Magnetographic method of examining welded joints in city gas lines  
PERIODICAL: Stroitel'stvo truboprovodov, no. 1, 1961, 24

TEXT: The article describes a magnetographic method of examination of welded joints developed by VNIIST and introduced in the Rostovstroy Trust for butt welding of 25 - 425 mm pipes. The work is done with the aid of a МГД-3 (MGD-3) flaw detector and a ferromagnetic tape of the Shostkinskiy khimzavod (Shostka Chemical Plant). Magnetization of the pipe ends is done with a solenoid. Results of magnetographic examination were checked by gamma-raying and proved identical. In order to determine the values of impulse amplitudes and the nature of these impulses in reference to the kinds of flaws, experimental joints of different diameters and different welding defects, such as pores, slag inclusions, non-fusion and cracks were prepared. After being magnetographed and gamma-rayed, the defective parts were cut out and tested in regard to tensile strength. It was found that pores and slag inclusions can be detected by the magnetographic method to a depth of 0.5 mm and non-fusion to a depth of 10% of a 6 mm metal thickness. X

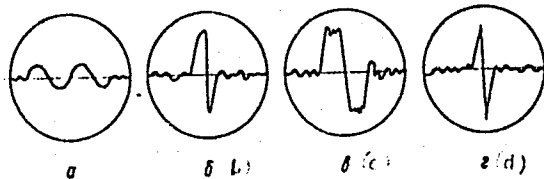
Card 1/2

Magnetographic method of examining welded joints ...

23325.  
S/095/61/000/001/003/004  
A053/A129

The forms of the pulses vary according to the kinds of defect in the welding joint. Pulses in the shape of waves denote non-fusion. Pores create pulses with rounded edges. Small teeth at the ends of curves means slag inclusions. Pulses with high amplitudes and sharp points indicate the presence of cracks. The forms of pulses as described are illustrated in the graph. In case of existence of different kinds of flaws, the resulting curve is blurred. The size of the amplitude not only depends on the importance of the flaw, but also on the depth of its location. The greater is the flaw and the nearer to the surface of the welding seam, the greater is the amplitude of the pulse. The magnetographic method of examining welded joints can be applied to pipes with a wall thickness of 3.5 - 10 mm. As far as sensitiveness is concerned, the magnetographic method is as sensitive as the gamma-ray method. The magnetographic method is harmless and inexpensive and 6 to 10 times as efficient as the gamma-ray method.

Shapes of pulses corresponding to various defects in the welding seam



Card 2/2

ALEKSEYEV, G.A., inzh.

Electric arc welding of small-diameter pipes. Stroi. truboprov.  
7 no.4:24-25 Ap '62. (MIRA 15:5)

1. Spetsial'noye upravleniye No.7 tresta Rostovstroy,  
Rostov-na-Donu.

(Gas pipes--Welding)

ALEKSEYEV, G.A., inzh.

Welding small-diameter pipes using propane-butane-oxygen flame.  
Stroi. truboprov. 7 no.7:25-26 JI '62. (MIRA 15:7)

1. Spetsial'noye upravleniye No.7 tresta Rostovstroy,  
Rostov-na-Donu.

(Pipe--Welding)

AVERKIN, A.L., inzh.; ALEKSEYEV, G.A.

New method of manufacturing case gas regulation units. Stroi.  
truboprov. 8 no.5:33 My '63. (MIRA 16:5)

1. SU-7 tresta Rostovstroy, Rostov-na-Donu.  
(Gas distribution) (Pressure regulators)

BRODSKIY, Ya., inzh.; ALEKSEYEV, G., inzh.

The regulations for inspecting joints of house gas pipes must be changed. Stroi. truboprov. 7 no.11;23 N '62. (MIRA 15:12)

1. Spetsializirovannoye upravleniye No.7 tresta Rostvstroy, Rostov-na-Donu.

(Gas pipes)



ALEKSEYEV, G.A.; SKRIPNIK, Yu.A., kand. tekhn. nauk

Device for measuring frequency errors of wire impedance. Avtom.  
i prib. no.4:70-74 O-D '63. (MIRA 16:12)

1. Kiyevskiy politekhnicheskij institut.

ALEKSEYEV, G.A.

Metal-cutting tools should be manufactured with greater speed. Vest.  
mashinostr. 43 no.11:3-6 N '63. (MIRA 17:2)

1. Glavnyy spetsialist Gosudarstvennogo komiteta po mashinostroyeniyu  
pri Gosplane SSSR.

DANILOV, B.F., tokar'-lekal'shchik; ALENSEYEV, G.A., inzh.,  
retsenzent; VLADIMIROV, V.M., inzh., red.

[New tools for machining on lathes] Novye instrumenty  
dlia tokarnykh rabot; opyt raboty. Moskva, Izd-vo "Ma-  
shinostroenie," 1964. 69 p. (MIRA 17:7)

ARSHINOV, V.A., kand. tekhn. nauk; ALEKSEYEV, G.A., inzh.; YEGOROV, S.V., kand. tekhn. nauk, dots., retsenzent; MALINOVSKIY, V.R., inzh., retsenzent; YULIKOV, M.I., kand. tekhn.nauk, red.

[Metal cutting and metal-cutting tools] Rezanie metallov i rezhushchii instrument. Moskva, Izd-vo "Mashinostroenie," 1964. 543 p. (MIRA 17:7)

ALEKSEYEV, G.A., inzh.; MIRONOV, A.A., inzh.; TETERIN, M.A., inzh.

Concerning some factors of the corona resistance of film-type  
electric insulating materials. Vest. elektroprom. 34 no.3:  
42-45 Mr '63. (MIRA 16:8)

(Corona (Electricity))  
(Electric insulators and insulation)

ALEKSEYEV, G.A. (Cheboksary)

Public health in Soviet Chuvashia during the past 40 years. Sov.  
zdrav. 20 no.1:55-60 '61. (MIRA 14:5)

1. Glavnyy stomatolog Ministerstva zdravookhrananiya Chuvashskoy ASSR.  
(CHUVASHIA--PUBLIC HEALTH)

PALEY, M.M., kand. tekhn. nauk, dots.; ALEKSEYEV, G.A., inzh.,  
retsenzent; SMIRNOV, B.V., inzh., red. [deceased]

[Technology in the manufacture of metal-cutting tools]  
Tekhnologiya proizvodstva rezhushchego instrumenta. Mo-  
skva, Mashgiz, 1963. 483 p. (MIRA 17:4)

ALEKSEYEV, G.A.; SKRIPNIK, Yu.A.

Checking of wire-wound resistors in a wide range of frequencies.  
Izv. vys. ucheb. zav.; radiotekh. 6 no.5:524-532 S-O '63.  
(MIRA 17:1)

1. Rekomendovana kafedroy izmeritel'nykh ustroystv Kiyevskogo  
ordena Lenina politekhnicheskogo instituta.



ALEKSEYEV, G.A.

Results of the improvement of stomatological care of the rural population. Zdrav. Ros. Feder. 8 no.3:20-23 Mr'64 (MIRA 17:4)

1. Glavnyy stomatolog Ministerstva zdavookhraneniya Chuvashskoy ASSR.

ALEKSEYEV, G.A.; BLOKH, P.V.

Coherent bremsstrahlung of extended electron clusters. Izv. vys.  
ucheb. zav.; radiofiz. 7 no.6:1064-1074 '64.

(MIRA 18:3)

1. Institut radiofiziki i elektroniki AN UkrSSR.

PA 45/49T72

ALEKSEYEV, G. A.

USSR/Medicine - Anemia, Pernicious      Feb 49  
Medicine - Bone Marrow

"Pernicious Anemia," G. A. Alekseyev, Dr Med Sci,  
3 pp

"Fel'dsher i Akusherka" No 2

Historical review of the discovery of causes and  
nature of this disease by Arinkin. Describes  
method of studying blood production in bone mar-  
row, and how a degenerative process leads to  
pernicious anemia. Briefs, very generally,  
treatment of subject disease.

45/49T72

ALEKSEYEV, G.A.

27355: ALEKSEYEV, G.A. -- Patogenezu i diferentsial'noy diagnostike gemoliticheskoy bolezni v svyazi s pokazaniyami k spleenektomii. Klinich. Meditsina, 1949, No. 8, s. 69-78.--Bibliogr: 7 Nazv.

SO: Letopis'Zhurnal'nykh Statey, Vol. 47, 1948.

CA

ALEKSEYEV, G.A.

116

ALEKSEYEV, G. A., Dr Med Sci, Therapy Clinic, Gen Inst for Advancement of Doctors

Myelomic disease (Rushtskii's disease). G. A.  
Aleksyev, *Teraput. Arkh.* 21, No. 1, 70-83(1940).--  
Review of multiple myeloma, including its chem. aspects.  
G. M. Kosolapoff

ALEKSEYEV, G. A.

58/4977.

USSR/Medicine - Myelopathic Diseases, Therapy  
Medicine - Diagnosis, Clinical and Cytological  
Mar/Apr 49

"Clinical Aspect, Cytodiagnosis, and Treatment of Myelopathic Diseases," G. A. Alekseyev, Dr Med Sci, 15 pp.

"Terap Arkhiv" Vol XXI, No 2

Outlines clinical picture which characterizes myelopathic diseases: (1) affection of the bones--pain, swelling and brittleness of the bones, (2) changes in the blood--anemia, sometimes a leukemic condition with the

58/4977

USSR/Medicine - Myelopathic Diseases, Therapy (Contd)  
Mar/Apr 49

presence of large number of reticulocytes and plasmocytes, (3) disease of the kidneys--Bence Jones proteinuria, and (4) hyperproteinemia. Discusses these symptoms in detail. States effective treatment for myelopathic diseases does not exist and reports in foreign literature on the beneficial action of antimony and other preparations lack verification.

58/4977

ALEKSEYEV, G. A.

Development of blood cells according to present data. Klin.  
med., Moskva 30 no. 5:17-26 May 1952. (CLML 22:3)

1. Professor, 2. Of the Therapeutic Clinic (Director -- Honored  
Worker in Science Prof. I. A. Kassirskiy), attached to the Third  
Therapeutic Department of the Central Institute for the Advanced  
Training of Physicians, Moscow.

ALEKSEYEV, G.A.

Anemii. (Patogenez, klinika i lechenie)

(Anemias; pathogenesis, clinical aspects, and therapy).

Moskva, 1953. 236 p. (M-vo zdavookhraneniia SSSR.

TSentr. in-t usovershenstvovaniia vrachei. B-ka prakt. vracha).

SO: Monthly List of Russian Accessions, Vol. 7, No. 5, August 1954



ALEKSEYEV, G.A.

Classification of anemia diseases. Ter. arkh., Moskva 25 no.2:81-82  
Mar-Apr 1953. (CLML 24:3)

1. Professor.

ALEKSEYEV, G.A., professor.

(REVIEWER)

"Pernicious anemia." M.A.Chepeleva. Reviewed by G.A.Alekseev.

Klin.med. 32 no.2:90-92 F '54.

(MLRA 7:5)

(Anemia) (Chepeleva, M.A.)

ALEKSEYEV, G. A., professor (Moskva)

Pathogenesis of anemia in diseases of the gastrointestinal tract.  
Klin. med. 32 no.11:15-24 N '54. (MLRA 8:1)

1. Iz III terapevticheskoy kliniki (zav.-zasluzhennyy deyatel'  
nauki prof. I.A.Kassirakiy) Tsentral'nogo instituta usovershen-  
stvovaniya vrachey na baze Tsentral'noy imeni Semashko bol'nitsy MPS.

(ANEMIA, in various diseases

gastrointestinal dis., pathogenesis)

(GASTROINTESTINAL DISEASES, complications

anemia, pathol.)

*Min. Transportatsii*

ALEKSEYEV, G. H.

KASSIRSKIY, I.A. professor, zaslužennyy deyatel' nauki; ALEKSEYEV, G.A.  
professor.

"Leucoses in children": K.G. Titov. Reviewed by I.A. Kassirskii,  
G.A. Alekseev. *Pediatrics*, no.5:89-92 S-0 '55. (MIRA 9:2)  
(LEUCOSIS) (CHILDREN-DISEASES) (TITOV, K.G.)

ALEKSEYEV, G.A., professor (Moskva)

Third All-Polish Conference of Hematologists. Terap.arkh.27  
no.4:84-90 '55 (MLRA 8:10)  
(BLOOD)

ALEKSEYEV, G. A.

"The Problem of Spherocytosis and the Role of the Spleen in the Pathology of Congenital Hemolytic Icterus in the Light of Remote Results of Splenectomy," a paper presented at the 6th International Congress of Blood Transfusion and Hematology, Boston, Mass., 29 Aug to 5 Sep 56.

Evaluation A-54224, 20 Sep 56

This paper indicated that the Soviets were about 15 years behind the US in this particular field.

USSR/Human and Animal Physiology - Blood.

V-3

Abs Jour : Ref Zhur - Biol., No 2, 1958, 8534

Author : G.A. Alekseyev

Inst :

Title : The Problem of the Role of the Spleen in the Pathogenesis of Congenital (Microspherocytic) Hemolytic Disease in Light of the Remote Results of Splenectomy

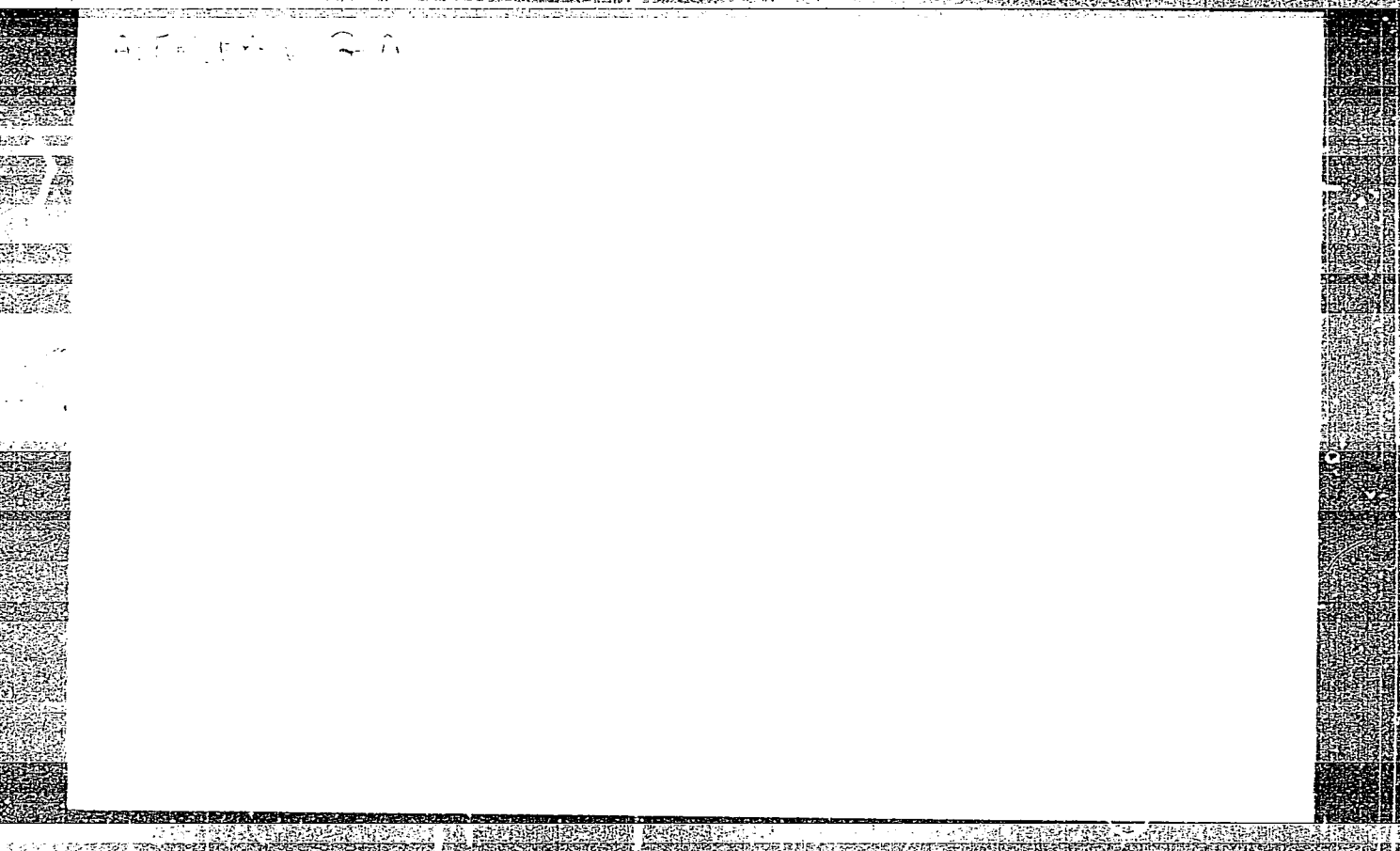
Orig Pub : Probl. gematol. i perelivaniya krovi, 1956, 1, No 1, 29-35

Abstract : Complete clinical recovery was seen in 5 cases of congenital hemolytic anemia following splenectomy; hemolysis declined sharply, microspherocytosis and the lowered osmotic resistance of the erythrocytes actually increased. Microspherocytosis results from the influence of primarily extrasplenic factors, while the spleen only destroys the non-resistant erythrocytes, which remain in the circulating blood after its removal. This is corroborated by examination of the blood of the splenic artery and vein, obtained

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splenectomy (Pol))  
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## EXCERPTA MEDICA Sec 6 Vol 13/2 - Internal Med. Feb 59

998. THE PROBLEM OF 'SURGICAL ANAEMIAS' - Sur le problème des 'anémies chirurgicales' - Alexeieff G. Clin. Thérapeut., Inst. Centr. de Perfectionnement des Méd. de l'U. R. S. S., Moscou - SANG 1957, 28/4 (305-315)

Owing to the perfectioning of modern surgical techniques and to the incontestable fact that the expectation of life of gastrectomized patients has improved, so-called agastric pernicious anaemias have become more frequent. The vit. B<sub>12</sub> level in the blood of patients with agastric pernicious anaemia is considerably diminished and only traces (0.016-0.075 mug./ml.) are found. In resected subjects not suffering from anaemia, the vit. B<sub>12</sub> level in the blood is normal (0.5-0.84 mug./ml.). Apart from agastric anaemias developing after gastrectomy, a state of 'functional agastria' is distinguished when the non-resected stomach is partially or totally excluded from digestion. A similar state was observed in 3 young girls aged 23-26, suffering from a severe anaemia, which declared itself 4 to 5 yr. after caustic ingestion and plastic operation for a new artificial oesophagus formed by part of the small intestine (antethoracic oesophagojejunal anastomosis). In one of these patients, a 'chlorotic' anaemia developed with Fe deficiency and, simultaneously, a latent vit. B<sub>12</sub> deficiency. Two other patients presented a hyperchromic anaemia of the pernicious type with cyclic recurrences. The relative rarity of anaemia in patients suffering from corrosive gastritis and operated on for artificial oesophagus may be explained by compensatory factors. Supplementary factors which contribute to the development of anaemia include menstrual haemorrhages as well as treatment by sulphanilamides (which depress biosynthesis of folic acid in the small intestine). A severe hypochromic anaemia was observed in 2 patients with oesophagofundic anastomosis operated on for cardiospasm and idiopathic dilatation of the oesophagus. This anaemia was due to parenchymatous gastric haemorrhages. Thus, the pathogenesis of the anaemia of patients with oesophagofundic anastomosis is very similar to that anaemia which is sometimes observed in patients suffering from hiatus hernia with gastric haemorrhages. Extensive resection of the small intestine may be followed either by a macrocytic anaemia similar to the anaemia of sprue, or by a 'chlorotic' anaemia with Fe deficiency. If after extensive resection of the small intestine the patient's condition is aggravated by gastric achylia, a megalocytic anaemia of the pernicious type may be observed, even in young subjects at the 'pre-Biermer' age. (VI, 9)