

BORODAYEV, Yu.S., [translator]; ZIMNOKH, Ye.F. [translator]; YAKOVLEVA, Ye.B. [translator]; SMIRNOV, V.I., redaktor; ROMANOVICH, G.P., redaktor; KLIMENKO, S.V., tekhnicheskiy redaktor.

[Regnerated ore deposits; a collection of articles. Translated from the German, French, and Polish] Rudnye regenerirovannye mestorozhdeniia; sbornik, statei. Perevod s nemetskogo, frantsuzskogo i pol'skogo Yu.S. Borodava, Ye.F. Zimnokh, i Ye.B. Yakovlevoi. Pod red. i s predisl. V.I. Smirnova. Moskva, Izd-vo inostr. littry, 1957. 251 p. (MIRA 10:6)  
(Ore deposits)

SMIRNOV Vladimir Ivanovich; MAKSIMOV, A.A., nauchnyy redaktor; LYUBIMOV, I.M.,  
redaktor izdatel'stva; GUR'YANOV, V.P., tekhnicheskiy redaktor.

[Geological principles of prospecting for ore-deposits]  
Geologicheskije osnovy poiskov i razvedok rudnykh mestorozhdenii.  
Izd-vo Mosk.univ., 1957. 587 p. (MIRA 10:11)  
(Prospecting) (Ore deposits)

SMIRNOV, V.I.

Six types of primary zonality of hydrothermal ore bodies. Izv.  
AN SSSR.Ser.geol. 22 no.3:15-26 Mr '57. (MLRA 10:5)

1.Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.  
(Ore deposits)

New work on ore deposits ("Mineral resources" [in Bulgarian] by  
Ioscho St. Ioschev (3 vols.). Reviewed by V.I. Smirnov). Izvesti  
okh.nedr 23 no. 3:62-64 Ky '57. (IRIA 1:8)

L.Nastovskiy gosudarstvennyy universitet imeni Lomonosova.  
(Ore deposits) (Mines and mineral resources)

SMIRNOV, V.I.

Density of exploratory nets. Sov. geol. no.58:150-162 '57.  
(MIRA 11:2)

L.Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.  
(Prospecting)

SMIRNOV, V.I.

Achievements and urgent problems in the theory of ore formation.  
Sov. geol. no.60:87-104 '57. (MIRA 11:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.  
(Ore deposits)

TSISSANTS, A. [Cissarz, Arnold], prof., doktor; GULDIN, N.Ye. [translator];  
SMIRNOV, V.I., red.; ZNAMENSKAYA, V.K., red.; IOVLEVA, N.A.,  
tekhn.red.

[Mineral deposits in Yugoslavia] Poleznye iskopaemye Iugoslavii.  
Pod red. i s predisl. V.I.Smirnova. Moskva, Izd-vo inostr.lit-ry.  
1958. 238 p. [Translated from the German] (MIRA 12:5)  
(Yugoslavia--Mines and mineral resources)

3(5)

PHASE I BOOK EXPLOITATION SOV/1923

Akademiya nauk SSSR. Otdeleniye geologo-geograficheskikh nauk.  
Komissiya po probleme "Zakonczernosti razmeshcheniya poleznykh  
iskopayemykh."

Zakonczernosti razmeshcheniya poleznykh iskopayemykh (Regularities in  
the Distribution of Mineral Deposits Vol 1. Moscow, Izd-vo AN SSSR,  
1958. 532 p. Errata slip inserted. 2,500 copies printed.

Resp. Ed.: N.S. Zhatskiy, Academician; Editorial Board: N.S. Zhatskiy,  
Academician, D.I. Shcherbakov, Academician, N.A. Polyayevskiy,  
N.M. Dolgopolov, O.D. Levitskiy, Yu.M. Pushcharovskiy, G.A. Sokolov;  
Ed. of Publishing House: G.I. Mosov; Tech. Ed.: I.M. Guseva

**PURPOSE:** This book is intended for geologists and petrographers,  
particularly those interested in the worldwide distribution of  
minerals and the reasons underlying their occurrence.

**COVERAGE:** On the basis of particular regional studies this book  
attempts to establish the rules governing the distribution of  
metallic and non-metallic ore deposits. The work includes articles  
on the metallogeny of individual minerals, on broad methodological  
problems, and on the possibility of predicting the occurrence of  
a mineral in the USSR on the basis of its occurrence throughout  
the world. Six maps depicting the distribution of a particular  
mineral throughout the world are included with the work.  
References accompany each article.

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Matveyenko, V.T., and Ye.T. Shatalov. Disjunctive Dislocations, Magmatization, and Mineralization in Northeastern USSR	169
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SMIRNOV, V.I.

Formation of regenerated ore deposits. Zakonem. razn. polezn. iskop.  
1:160-168 '58. (MIRA 12:3)

1. Moskovskiy gosudarstvennyy universitet im. Leninsova.  
(Ore deposits)

SMIRNOV, V.I.; RYZHENKO, L.M.

Formation and distribution of mercury deposits. Zakonem. razm. pelesn.  
iskop. 1:289-301 '58. (MIRA 12:3)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova i Vsesoyuznyy  
gosudarstvennyy fond Ministerstva geologii i okhrany nedr SSSR.  
(Mercury ores)

SMIRNOV, V.I.

Inheritance in endogenous mineralization. Nauch.dokl.vys.shkoly;  
geol.-nauki no.4:23-25 '58. (MIRA 12:6)

1. Moskovskiy universitat, geologicheskiy fakul'tet, kafedra poleznykh  
iskopayemykh.

(Ore deposits)

SMIRNOV, V.I.

Efficient geological prospecting [with summary in English].  
Sov. geol. no. 5:104-109 My '58. (MIRA 11:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.  
(Prospecting)

26-58-7-8/48

AUTHOR: Smirnov, V.I., Corresponding Member of the AS USSR

TITLE: Ore From Magma (Ruda iz magmy)

PERIODICAL: Priroda, 1958, Nr 7, pp 51-54 (USSR)

ABSTRACT: The Leningradskiy gornyy institut (Leningrad Mining Institute) is a traditional center of Russian and Soviet mining research. K.I. Bogdanovich, V.A. Obruchev, A.E. Fersman, S.S. Smirnov (deceased) and Yu.A. Bilibin are quoted as eminent advocates of the theory of the magmatogenous origin of the ores. The article then gives a positive appraisal of contemporary Soviet research results with respect to the origin of the ores from magma as laid down in the book "Fundamental Problems in the Study of Magmatogenous Ore Deposits" published by the Publishing House of the AS USSR in 1955 and written by Lenin Prize winner A.G. Betekhtin, Academician A.N. Zavaritskiy, **Corresponding Member** V.A. Nikolayev, Academician D.S. Korzhinskiy and Member-Correspondent O.D. Levitskiy.

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There are 4 photos.

Ore From Magma

26-58-7-8/48

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.L. Lomorosova  
(The Moscow State University imeni M.V. Lomonosov)

1. Ores--Sources

Card 2/2

YAKZHIN, Aleksandr Andreyevich; KREYTSER, V.M., prof., ratsenzent;  
SMIRNOV, V.I., prof., nauchnyy red.; MUKHIN, S.S., red.izd-va;  
KRYNOCHKINA, K.V., tekhn.red.

[Prospecting for mineral deposits] Poiski i razvedka mesto-  
rozhdenni poleznykh iskopaemykh. Moskva, Gos.nauchno-tekhn.  
izd-vo lit-ry po geol. i okhrane neдр, 1959. 567 p.

(MIRA 12:12)

(Mines and mineral resources) (Prospecting)

SMIRNOV, V.I.

Concerning the books on prospecting for uranium deposits. Geol.  
rul. mestorozh. no.2:104-106 Mr-Apr '59. (MIRA 12:9)  
(Uranium ores) (Books--Reviews)



18(5), 28(0)

AUTHOR:

SOV/30-59-3-46/61  
Smirnov, V. I., Corresponding Member, Academy of Sciences,  
USSR

TITLE:

Principles and Methods of Metallogenetic- and Prognostication  
Maps (Printsiipy i metody sostavleniya metallogenicheskikh i  
prognoznykh kart)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1959, Nr 3, pp 120 - 122 (USSR)

ABSTRACT:

The Otdeleniye geologo-geograficheskikh nauk Akademii nauk  
SSSR (Department of Geographical-Geological Sciences of  
the Academy of Sciences, USSR), the Akademiya nauk Kazakh-  
skoy SSR (Academy of Sciences of the Kazakhskaya SSR), the  
Ministerstva geologii i okhrany nedr SSSR i Kazakhskoy SSR  
(Ministries for Geology and the Protection of Soil Products  
in the USSR and the Kazakhskaya SSR) organized a joint  
scientific conference at Alma-Ata from December 8 to December  
12, 1958, which dealt with problems of metallogenetic- and  
prognostication maps. The conference was attended by more  
than 800 persons representing various geological institutes  
and organizations of the USSR. The greatest interest was

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Principles and Methods of Metallogenetic- and  
Prognostication Maps

SOV/30-59-3-46/61

Samples of metallogenetic prognostication maps in a large scale (1:200000 and larger) of a team of geologists of the Akademiya nauk Uzbekskoy SSR ( AS of the Uzbekskaya SSR) for the Chatkalo-Kuraminskaya gornaya oblast' of Tyan-Shan were shown by the President of this Academy, Kh. M. Abdullayev, and the geologists of the Altayskiy nauchno-issledovatel'skiy gorno-metallurgicheskiy institut Akademii nauk Kazakhskoy SSR (Altayskiy Scientific Metallurgical Mining-Research Institute of the AS Kazakhskaya SSR) P. F. Ivankin, A. K. Kayupov, G. N. Shcherba showed one for Rudnyy Altay. A. V. Orlova, and Ye. T. Shatalov, Ye. A. Radkevich dealt with the general methodic bases of metallogenetic large scale map plotting. N. P. Semenenko demonstrated a scheme of metallogenetic regioning of the Ukraine. The Ural geologists M. M. Aleshin, V. P. Pervov, P. V. Lazarev, and I. V. Lennykh spoke about the production of metallogenetic and prognostication-maps for copper, iron, and nickel. U. M. Akhmedsafin spoke about the prognostication methods for waters of the Artesian basins of Central Kazakhstan. At the conference prognostication maps for phosphorites were demonstrated ( B. M. Gimnel'-

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SOV/11-59-4-1/16

3 (3)

AUTHOR: Smirnov, V. I.

TITLE: An Attempt of Metallogenic Zoning  
of the USSR Territory (Opyt metallogenicheskogo  
rayonirovaniya territorii SSSR)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959,  
Nr 4, pp 3 - 21 (USSR)

ABSTRACT:

The author proposes a scheme of metallogenous division of the USSR into five zones of occurrence of endogenous mineral depositis: Alpine, Mesozoic, Hercinian, Caledonian and Proterozoic. More than one mineralization process occurs in each of these zones, the "younger" one superimposed on the older, thus creating zones of polycyclic mineralization. Each of the five zones is divided into ore-provinces as follows: I.-Alpine provinces: a) Far North-East, b) Caucasus, c) Carpathians, d) Kopet-Dag; II. Mesozoic Provinces: Transbaykalian-Maritime zone; III.-Hercinian provinces: a) Ural, b) Kazakhstan, c) Central Asia, and also Donbass, Novaya Zemlya, South Taymyr and Tom'-Kolyvan'

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An Attempt of Metallogenic Zoning of the  
USSR Territory

zones; IV. Caledonian provinces: the Altay-Sayan zone and the Northern Taimyr; V. Proterozoic provinces: a) southern part of the Siberian Plateau, b) Baltic shield, and c) Ukrainian shield. Polycyclic mineralization is observed in all provinces. The author gives a detailed description of these provinces, and of the successive mineralization processes occurring there. The following geologists are mentioned in connection with this article: H. S. Shatskiy, A. A. Bogdanov, N. A. Belyayevskiy, M. V. Muratov, S. S. Smirnov, D. I. Shcherbakov, Ye. D. Karpova, and V. M. Sengiyevskiy. There are 1 map, 1 diagram and 15 Soviet references.

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

SUBMITTED: September 9, 1958

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3(8)

SOV/26-59-4-4/43

AUTHOR:

Smirnov, V.I., Corresponding Member, AS USSR

TITLE:

The Evolution of Endogenous Ore Formation (Evolyutsiya endogennoho rudoobrazovaniya)

PERIODICAL:

Priroda, 1959, Nr 4, pp 17-22 (USSR)

ABSTRACT:

The author investigates the geological conditions for the evolution of endogenous ore formation from ancient up to the latest geological epochs and the possible determination of regularities in the distribution of these deposits on Soviet territory. Mostly endogenous deposits are concentrated in plicated areas framing the Russian and Siberian platforms and also in the Baltic, Ukrainian, Aldan and Anabar regions. The author enumerates the main formation periods and gives a map dividing the USSR territory into metallogenic districts and showing that all USSR ore provinces cover plicated or polycyclic areas. Considering only the most important mineralization epochs, the respective ore provinces can be

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The Evolution of Endogenous Ore Formation

SOV/26-59-4-4/43

divided into bicyclic and tricyclic ones and the author lists the main geographic regions belonging to them. Furthermore, he divides endogenous deposits into magmatic, pegmatic, greisen, skarn and hydrothermal genetic groups and gives a short description of each. Several particularities in the chronological development of big ore accumulations correspond to the genetic groups of endogenous deposits in a certain degree. The author divides ore deposits into 6 different groups quoting three Soviet scientists, Academician D.I. Shcherbakov, N.A. Belyayevskiy and Ye.D. Karpova who pointed to the recurrence of the same ore deposits especially "typomorphic" ones, in ancient and recent epochs of ore formation; not only the geological conditions for ore formation are the same, but also the genetic groups. The author reaches the conclusion that the distribution of endogenous deposits in ore provinces is very often subject to the law of regional zoning,

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SMIRNOV, V.I.

Classification of ore-bearing comagmatic provinces. Uzb.  
geol. zhur. no.6:3-12 '59. (MIRA 13:6)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,  
mineralogii i geokhimii AN SSSR.  
(Ore deposits—Classification)

SOV/11-59-9-1/18

3(3)

AUTHOR: Smirnov, V.I.

TITLE: Determining the Regularities of Distribution of Mineral Deposits on USSR Territory - the Foremost Purpose of Geological Explorations

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 9, pp 3-11 (USSR)

ABSTRACT: In connection with the foreseen expansion of the Soviet industry, the author stresses the importance of finding a further increase of reserves of mineral raw materials. Therefore, the solution of the problem of elaborating and establishing the regularities of distribution of mineral deposits in the earth's crust on the Soviet territory requires the utmost attention of all Soviet geologists and geological institutes and organizations. The problem was posed by Academician N.S. Shatskiy and its satisfactory solution was recognized by the AS USSR as a most important task. The problem was tackled

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Determining the Regularities of Distribution of Mineral Deposits on USSR Territory - the Foremost Purpose of Geological Explorations

long ago by Academician V.A. Obruchev who singled out several metallogenic epochs and regions of Siberia. Theories propounded by A.Ye. Fersman on the regional metallogenic zonality of the Mongolo-Ckhotsk belt served as a base for S.S. Smirnov the creator of Soviet metallogeny for research on regional ore-bearing zones of Eastern Siberia. Further theories on the distribution of mineral deposits were propounded by Yu.A. Bilibin, P.I. Stepanov, Kh.M. Abdullayev, I.M. Gubkin, I.S. Rozhkov, A.N. Zavaritskiy and many other geologists. According to the information gathered by the *Sovet po izucheniyu zakonomernostey razmeshcheniya glavnnyeyshikh poleznykh iskopayemykh pri otdelenii geologo-geograficheskikh nauk AN SSSR* (Council for the Study of Regularities of Distribution of the Most Important Mineral Deposits at the Section of Geolo-

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SCV/11-59-9-1/18

Determining the Regularities of Distribution of Mineral Deposits on USSR Territory - the Foremost Purpose of Geological Explorations

gical and Geographical Sciences of the AS USSR), this problem is presently being studied in 620 different themes. The author further stresses the importance of preparing stratigraphic diagrams and research on the formation of exogenous mineral deposits, as was done by N.M. Strakhov on the accumulation epochs of sedimentary iron, manganese and aluminum ores or by P.I. Stepanov on the stratigraphy of coal accumulation. The elaboration of theoretical bases of natural regularities of distribution of mineral deposits is combined with the compilation of geological maps indicating the already existing and foreseen deposits. Such maps, indicating deposits divided in groups according to their geological age, can greatly facilitate the task of geologists. The experience of geologists of the Academy of Sciences of Kazakhstan, working

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Determining the Regularities of Distribution of Mineral Deposits on USSR Territory - the Foremost Purpose of Geological Explorations

under the leadership of K.I. Satpayev, proves it. It is also important that the maps indicate the natural geological elements usually associated with a given mineral. For instance, the maps compiled by I.O. Brod for prospecting for petroleum and natural gas in the Eastern Caucasus. At present, many such maps are near their completion. A creative group of the metallogenicheskiy sektor VSEGEI (Metallogenous Department of the VSEGEI) is preparing a complex metallogenous map for the whole Union on the scale 1 : 2,500,000. The Laboratoriya geologii uglya AN SSSR (Coal Geology Laboratory of the AS USSR) prepares maps of coal-bearing provinces and maps of coal accumulation for different geological periods of the Earth. The Institut geologii i razrabotki goryuchikh iskopayemykh AN SSSR (Institute of Geology and Mining

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Determining the Regularities of Distribution of Mineral Deposits on USSR Territory - the Foremost Purpose of Geological Explorations

of Mineral Fuels of the AS USSR) supervises the compilation of maps of petroleum and gas bearing regions of the USSR. In general, only organized groups of geologists of scientific or industrial organizations can cope with the problem and it was therefore decided to create the already mentioned special Interdepartmental Council, as well as special central and local committees. This Council is composed of representatives of the AS USSR, republican Academies, the Ministerstvo Geologii i okhrany nedr SSSR (Ministry of Geology and Conservation of Mineral Resources of the USSR), and of the Vuzes, and presided over by Academician D.I. Shcherbakov. It is composed of five Commissions which are: 1) Commission of Sedimentary Mineral Deposits - chairman Academician N.S. Shatskiy; 2) Endogenous Mineral Deposits - Professor

Card 5/6

SMIRNOV, V.I.; BROD, I.O.

For the rise of Soviet geology to a higher level. Vest.Mosk.un.  
Ser.biol., pochv., geol., geog. 14 no.1:3-10 '59.

(Geology, Economic)

(MIRA 12:9)

3 (5,8)  
AUTHORS:

Smirnov, V. I., Corresponding Member, SOV/20-126-1-38/62  
AS USSR, Goncharova, T. Ya.

TITLE:

On the Ore Pebbles in the Upper Rocks of the Urupskaya Copper Pyrites Deposit. in the North Caucasus (O rudnykh gal'kakh v porodakh krovli Urupskogo medno-kolchedannogo mestorozhdeniya na Severnom Kavkaze)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 1, pp 142 - 143 (USSR)

ABSTRACT:

The deposits mentioned in the title are in the north-western part of the Peredovoy (front) chain of the Bol'shoy (Greater) Kavkaz (Caucasus) in the upper course of the river Urup - a left tributary of the Kuban'. It is related to sedimentary-volcanogenic sediments which were transformed into greenstone strata under the influence of the regional metamorphism. The age determination of the containing complex fluctuates between Middle Devonian and older formations since the fauna lacks. The ore deposits form a gently sloping stratiform body of massive copper pyrites ores which are concordant with the containing rocks. It has distinctly marked contacts and lies on the base of the tuffs of average composition which rest upon

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On the Ore Pebbles in the Upper Rocks of the Urupskoye SOV/20-126-1-38/62  
Copper Pyrites Deposit in the North Caucasus

the quartz albitophyres. The ore body suffered an intensive metamorphism together with the containing rocks. Splinters of pyrites ores were found in tuffs splintered into large fractions in the upper rocks by means of boring 65-90 m above the ore body. The formation of the ore which yielded these splinters before the formation of the volcanogenic-clastic masses is confirmed among other things also by the lacking of the ore disseminations and hydrothermal changes in the rocks beside the ore splinters. The occurrence of angular clasts and the lacking of a limonite crust on their surface is indicative of a rapid displacement over comparatively short distances. Further deposits of ore pebbles in the Ural, Malyy Kavkaz (Lesser Caucasus) and Zakavkaz'ye (Transcaucasia) (Refs 1-3) are enumerated. All these research workers are of the opinion that the ore splinters in the mentioned upper rock point to a partial destruction of the ore deposits at the time of the accumulation of the rocks of the hanging wall and thus fix quite distinctly the period of mineralization. The above mentioned

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On the Ore Pebbles in the Upper Rocks of the Urupal'ye SOV/20-126-1-38/62  
Copper Pyrites Deposit in the North Caucasus

observations must, however, be taken into account with respect  
to the formation time and its conditions. There are 3 Soviet  
references.

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

SUBMITTED: February 3, 1959

Card 3/3



AL'BOV, Mikhail Nikolayevich; SMIRNOV, V.I., nauchnyy red.; PANOVA,  
A.I., red.izd-va; IVANOVA, A.G., tekhn.red.

[Secondary zoning in gold deposits of the Urals] Vtorichnaia  
zonal'nost' zolotorudnykh mestorozhdenii Urals. Moskva, Gos.  
nauchno-tekhn.izd-vo lit-ry po geol. i okhrane neдр, 1960.  
214 p. (MIRA 14:4)

1. Chlen-korrespondent AN SSSR (for Smirnov).  
(Ural Mountain region--Gold ores)

SURAZHSKIY, Daniil Yakovlevich. Prinimalsi uchastiye: PUKHAL'SKIY, L.Ch.;  
POSIK, L.N.; SHASHKIN, V.L.. SMIRNOV, V.I., red.; ALYAB'YEV, A.F.,  
red.; POPOVA, S.M., tekhn.red.

[Methods of prospecting and exploration of uranium deposits]  
Metody poiskov i razvedki mestorozhdenii urana. Pod red. V.I.  
Smirnova. Moskva, Izd-vo glav.upr.po ispol'zovaniyu atomnoi  
energii pri Sovete Ministrov SSSR, 1960. 240 p.

(MIRA 13:7)

1. Chlen-korrespondent AN SSSR (for Smirnov).  
(Prospecting) (Uranium ores)

SMIRNOV, V.I.; PROKOF'YEV, A.P.; BORZUNOV, V.M.; DYUKOV, A.I.; ZHDANOV,  
M.A.; LYUBIMOV, I.A.; NEKIPPELOV, V.Ye.; PLOTNIKOV, N.A.;  
ANTROPOV, P.Ya., glavnyy red.; FEDOTOVA, A.I., red.izd-va;  
GUROVA, O.A., tekhn.red.

[Estimation of reserves of mineral deposits] Podschet zapasov  
mestorozhdenii poleznykh iskopayemykh. Pod red. V.I.Smirnova i  
A.P.Prokof'eva. Glav.red. P.IA.Antropov. Moskva, Gos.nauchno-  
tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1960. 671 p.  
(MIRA 14:1)

(Mines and mineral resources)

SMIRNOV, V.I.; GONCHAROVA, T.Ya.

Paleozoic volcanic complexes in the Northern Caucasus and  
pyrite deposits associated with them. Zakon.razm.polezn.iskop.  
3:349-363 '60. (MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.  
(Caucasus, Northern--Pyrites)

BARSANOV, G.P.; BOGDANOV, A.A.; YERMAKOV, N.P.; KRASHENINNIKOV, G.F.;  
SERGEYEV, Ye.M.; SMIRNOV, V.I.; YAKUSHOVA, A.F.

International geological congress in Copenhagen. Vest. Mosk. un.  
Ser. 4: Geol. 15 no.6:3-12 N-D '60. (MIRA 14:1)  
(Geology--Congresses)

SMIRNOV, V.I.; GONCHAROVA, T.Ya.

Geological characteristics of the formation of pyrite deposits  
in the western part of the Northern Caucasus. Izv. AN SSSR. Ser.  
geol. 25 no.2:3-15 F '60. (MIRA 13:10)

1. Moskovskiy gosudarstvennyy universitet.  
(Caucasus, Northern--Pyrites)

ZELININ, N.I.; CHERNYSHEVA, K.B.; SMIRNOV, V.I.; ANTROPYANSKAYA, Ye.A.

Developing methods of cold fractionation of shale tar. Report  
No.2. Investigation of heavy oil. Khim. i tekhn. gor. slan. i  
prod. ikh perer. no.9:172-183 '60. (MIRA 15:6)  
(Distillation, Fractional) (Oil shales)

VINOGRADOV, Sergey Sergeevich; YERSHOV, A.D., glavnyy red.; KREYTER, V.M.,  
zamestitel' glavnogo red.; GRIGOROVICH, M.B., red.vypuska;  
KRASNIKOV, V.I., red.; MOMDZHI, G.S., red.; SAAKYAN, P.S., red.;  
SMIRNOV, V.I., red.; KHRUSHCHOV, N.A., red.; CHERNOG SVITOV, Yu.L.,  
red.; NEMANOVA, G.F., red.izd-va; BORISOV, A.S., tekhn.red.

[Dolomites] Dolomity. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry  
po geologii i okhrane neдр, 1961. 173 p. (Otsenka mestorozhdenii  
pri poiskakh i razvedkakh, no.17) (MIRA 14:11)  
(Dolomite)



SMIRNOV, V.I.

"Formation of rare metal deposits in central Kazakhstan" by G.N. Shcherba. Reviewed by V.I.Smirnov. Geol. rud. mestorozh. no.2: 136-138 Mr-Apr '61. (MIRA 14:5)  
(Kazakhstan—Metals, Rare and minor) (Shcherba, G.N.)

SMIRNOV, V.I.

Some ore deposits in the United States. Geol.rud.mestorozh.  
no.4:79-90 JI-Ag '61. (MIRA 14:10)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
(United States--Ore deposits)

SMIRNOV, V.I.

History of the classification of mineral reserves. Och.po 1st.  
geol.znan. no.9:148-165 '61. (MIRA 14:10)  
(Mines and mineral resources--Classification)

ABDULLAYEV, Kh.M.; ALYAVDIN, V.F.; AMIRASLANOV, A.A.; ANIKEYEV, N.P.;  
ARAPOV, Yu.A.; BARSANOV, G.P.; BELYAYEVSKIY, N.A.; BOKIY, G.P.;  
BORODAYEVSKAYA, M.B.; GOVOROV, I.N.; GODLEVSKIY, M.N.; SHCHEGLOV, A.D.;  
SHAKHOV, F.N.; SHILO, N.A.; YARMOLYUK, V.A.; DRABKIN, I.Ye.;  
YEROFEYEV, B.N.; YERSHOV, A.D.; IVANKIN, P.F.; ITSIKSON, M.I.;  
KARPOVA, Ye.D.; KASHIN, S.A.; KASHKAY, M.A.; KORZHINSKIY, D.S.;  
KOSOV, B.M.; KOTLYAR, V.N.; KREYTER, V.M.; KUZNETSOV, V.A.; LUGOV,  
S.F.; MAGAK'YAN, I.G.; MATERIKOV, M.P.; ODI N'ISOV, M.M.; PAVLOV, Ye.S.;  
SATPAYEV, K.I.; SMIRNOV, V.I.; SOBOLEV, V.S.; SOKOLOV, G.A.; STRAKHOV,  
N.M.; TATARINOV, I.M.; KHRUSHCHOV, N.A.; TSAREGRADSKIY, V.A.;  
CHUKHROV, F.V.

In memory of Oleg Dmitrievich Levitskii; obituary. Sov.geol. 4  
no.5:156-158 My '61. (MIRA 14:6)  
(Levitskii, Oleg Dmitrievich, 1909-1961)

SMIRNOV, V.I.

Convergence of pyrite deposits. Vest.Mosk.un.Ser. 4: Geol. 15  
no.2:19-26 Mr-Apr '61. (MIRA 14:4)

1. Kafedra poleznykh iskopayemykh Moskovskogo universiteta.  
(Pyrites)

SMIRNOV, V.I.

**Metallogeny of tectonic sectors in geosynclines.** Vest. Mosk. un.  
Ser. 4: Geol. 16 no.1:3-14 Ja-F '61. (MIRA 14:3)

1. Kafedra poleznykh iskopayemykh Moskovskogo universiteta.  
(Ore deposits) (Folds (Geology))

SMIRNOV, V.I.

A month in America. Vest.Mosk.un.Ser. 4: Geol. 16 no.3:74-79  
My-Je '61. (MIRA 14:6)

(United States—Ore deposits)  
(Geologists, American—Education and training)

SMIRNOV, V.I.

Problems of the geology of ore deposits at the 21st session of the  
International Geological Congress. Izv. AN SSSR. Ser. geol. 26  
no. 4:110-113 Ap '61. (MIRA 14:5)  
(Geology--Congresses)



SMIRNOV, V.I.

Some problems in the metallogeny of geosynclines. Izv.AN SSSR.  
Ser.geol.26 no.10:56-71 0 '61. (MIRA 14:9)

1. Moskovskiy gosudarstvennyy universitet.  
(Ore deposits)

KHRUSHCHOV, N.A.; YERSHOV, A.D., glavnyy red.; KREYTER, V.M., zamestitel'  
glavnogo red.; BUTKEVICH, T.V., red.vypuska; KRASNIKOV, V.I., red.;  
MOMDZHI, G.S., red.; SAAKYAN, P.S., red.; SMIRNOV, V.I., red.;  
CHERNOSVITOV, Yu.L., red.; ENTIN, M.L., red.izd-va; GURCVA, O.A.,  
tekhn.red.

[Molybdenum] Molibden. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry  
po geol.i okhrane nedr, 1961. 269 p. (Otsenka mestorozhdenii  
pri poiskakh i razvedkakh, no.19). (MIRA 15:4)  
(Molybdenum ores--Sampling and estimation)

SMIRNOV, Vladimir Ivanovich; SMIRNOVA, N.P., red.; RAKITIN, I.T.,  
tekhn. red.

[Ore belts of the earth] Rudnye poiasa zemli. Moskva, Izd-vo  
"Znanie," 1962. 31 p. (Novoe v zhizni, nauke, tekhnike. XII  
Serii. Geologiya i geografiya, no.6) (MIRA 15:6)

1. Chlen-korrespondent Akademii nauk SSSR (for Smirnov).  
(Ore deposits)

SMIRNOV, V.I.

Georgii Alekseevich Krutov; on his 60th birthday. Vest.Mosk.  
un.Ser.4: Geol. 17 no.2:71-74 Mr-Ap '62. (MIRA 15:5)  
(Krutov, Georgii Alekseevich, 1902-)

SMIRNOV, V.I.

M.V.Lomonosov's role in the development of the theory of minerals.  
Vest.Mosk.un. Ser.4:Geol. 17 no.3:3-9 My-Je '62. (MIRA 15:6)  
(Lomonosov, Mikhail Vasil'evich, 1711-1765)  
(Mines and mineral resources)

VASIL'YEV, Petr Vasil'yevich; YERSHOV, A.D. glavnyy red.; KREYTER, V.M.,  
zam. glavnogo red.; KALMYKOV, G.S., red.; BRITAYEV, M.D., red.;  
KRASNIKOV, V.I., red.; MALYSHEV, I.I., red.; MOMDZHI, G.S., red.;  
SAAKYAN, P.S., red.; SMIRNOV, V.I., red.; SOLOV'YEV, D.V., red.;  
CHERNOSVITOV, Yu.L., red.; KHRUSHCHOV, N.A., red.; PANOVA, A.I.,  
red.izd-va; GUROVA, O.A., tekhn.red.

[Coal] Ugol'. Moskva, Gos.nauchn.-tekhn.izd-vo lit-ry po geol.  
i okhrane neдр, 1960. 343 p. (Otsenka mestorozhdenii pri  
poiskakh i razvedkakh, no. 5) (MIRA 14:2)  
(Mine examination) (Coal)

SMIRNOV, V.I.

Metallogeny of geosynclines. Zakonom. razm. polezn. iskop 5:17-81 '62.  
(MIRA 15:12)

1. Moskovskiy gosudarstvennyy universitet.  
(Ore deposits)

SMIRNOV, Vladimir Ivanovich; RABINTSEV, N.I., red.; BYKOVA, V.V.,  
tekhn. red.

[Outline of metallogeny] Ocherki metallogenii. Moskva, Gos-  
geoltekhizdat, 1963. 182 p. (MIRA 16:6)  
(Ore deposits)



GORSKIY, I.I., otv. red.; BELYAYEVSKIY, N.A., doktor geol.-min. nauk, zam. otv. red.; AFANAS'YEV, G.D., red.; BOGDANOV, A.A., doktor geol.-min. nauk, red.; VCROB'YEVA, O.A., doktor geol.-min. nauk, red.; KATUSHENOK, I.I., kand. geol.-min. nauk, red.; MENNER, V.V., doktor geol.-min. nauk, red.; MENYAYLOV, A.A., doktor geol.-min. nauk, red.; SMIRNOV, V.I., akademik, red.; SHATALOV, Ye.T., doktor geol.-min. nauk, red.; CHEPIKOVA, I.M., red. izd-va; TIKHOMIROVA, S.G., tekhn. red.

[Problems of geology at the 21st session of the International Geological Congress] Problemy geologii na XXI sessii Mezhdunarodnogo geologicheskogo kongressa. Moskva, Izd-vo AN SSSR 1963 448 p. (MIRA 16:11)

1. Akademiya nauk SSSR, Natsional'nyy komitet geologov, 2. Chlen-korrespondent AN SSSR (for Afanas'yev, Gorskiy). (Geology--Congresses)

SMIRNOV, I. I.

~~SECRET~~, ~~SECRET~~

(21)

S/011/63/000/001/002/002  
A006/A101

AUTHOR: Azizbekov; Sh. A.

TITLE: The Third All-Union Conference on regularities in the formation and distribution of endogenous mineral resource deposits

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, no. 1, 1963, 126 - 128

TEXT: The Conference was held in Baku from September 18 to 23, 1962; it was attended by 455 representatives from scientific and industrial geological organizations including 24 Academicians and Corresponding Members of AS USSR and AS of various republic, 49 Doctors-Professors and 164 Candidates of Geological and Mineralogical Sciences. The Conference was opened by Academician D. I. Shcherbakov, secretary of OGON, AS USSR. The program of the Conference was divided into three main groups: a) regularities in the formation and distribution of endogenous deposits in the Caucasus; b) regularities in the formation and distribution of endogenous deposits of other folding regions of the Alpine cycle; c) general problems of metallogeny. In group a) reports on basic features

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SMIRNOV, V.I.

Metallogeny of Caledonian formations in the Western Sayan Mountains.  
Geol. i geofiz. no.2:12-18 '63. (MIRA 16'5)

1' Moskovskiy gosudarstvennyy universitet.  
(Sayan Mountains--Ore deposits) ((Sayan Mountains--~~Fold~~ (Geology))

SMIRNOV, V. I., akademik

Caucasian ore belts; All-Union conference at Baku. Vest. AN  
SSSR 33 no.1:119-121 Ja '63. (MIRA 16:1)

(Caucasus--Ore deposits)

EGEL', Lev Yeven'yevich; YERSHOV, A.D., glavnyy red.; ZUBREV, I.N., zam. glavnogo red.; GUDALIN, G.G., red.; KRASHNIKOV, V.I., red. [deceased]; KORESHKOV, B.Ya., red.; MOMDZHI, G.S., red.; POZHARITSKIY, K.L., red.; SMIRNOV, V.I., red.; SOLOVOV, A.P., red.; TROYANOV, A. T., red.; FILIPPOVSKAYA, T.B., red.; KHRUSHCHOV, N.A., red.; CHERNOSVITOV, Yu.L., red.; GINZBURG, A.I., red.vypuska; PROKOF'YEV, A. P., red.vypuska; SOKOLOVSKAYA, Ye.Ya., red.izd-va; BYKOVA, V.V., tekhn.red.

[Rare-earth metals.] Redkezemel'nye metally. Moskva, Gostoptekhizdat, 1963. 332 p. (Otsenka mestorozhdenii pri poiskakh i razvedkakh, no.21). (MIRA 17:2)

SMIRNOV, V.I.; BORODAYEV, Yu.S.; BOCHAROVA, G.I.; GONCHAROVA, T.Ya.;  
DEMIDOVA, N.G.; ORLOV, R.Yu.

Characteristics of the igneous activity and metallogeny of  
geosynclinal and platform stages in the development of the  
western part of the Greater Caucasus. Zakonom.razm.polezn.iskop.  
7:210-218 '64. (MIRA 17:6)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

БЕТЕКВИЦ, А.А. [deceased]; ГОЛОВ, А.А.; ИВАНОВ, В.Ф.; ИВАНОВ,  
Г.А.; КАМЫШИН, А.Я.; КИРЮКОВ, В.В.; КУРЛОВ, Л.О.;  
МАКАРИАН, Л.С.; СИДИА, Р.А.; ТАТАРИНОВ, Р.М.;  
ЧЕКАРОВИЧ, Я.Б.; ШЕРНОВ, В.И., редактор

[Course in mineral deposits] Курс мастерозждения полезных  
ископаемых. Изд.3., перер. и доп. Москва, Недра, 1964.  
589 p. (MIRA 18:3)

MAKSIMOV, A.A.; MERENKOV, B.Ya.; MILOSERDINA, G.G.; SMIRNOV, V.I.;  
SYROMYATNIKOV, V.A.

Petr Nikolaevich Markov, 1894- ; on his 70 th birthday. Vest.  
Mosk. un. Ser. 4: Geol. 19 no.4:83-84 J1-Ag '64. (MIRA 17:11)



SMIRNOV, V.I., akademik, red.; YEMAKOV, N.P., red.; DOLGOV, Yu.A.,  
red.; SOKOLOV, G.A., red.; KHITAROV, N.I., red.

[Mineralogical thermometry and barometry] Mineralogicheskaya  
termometriya i barometriya. Moskva, Nauka, 1965. 327 p.  
(MIRA 18:5)

1. Akademiya nauk SSSR. Nauchnyy Sovet po rudoobrazovaniyu.

SMIRNOV, V.I., akademik, otv. red.; ROZHKOV, I.S., red.;  
TROFIMOV, V.S., red.; SHILO, N.A., red.; KAMSHILINA,  
Ye.M., red.

[Geology of placers] Geologiya rossypei. Moskva, Nauka,  
1965. 399 p. (MIRA 18:6)

1. Akademiya nauk SSSR. Nauchnyy sovet po rudoobrazovaniyu.

GONZHEVSKIY, David Iosifovich; KOLERENKO, Vladimir Nikolayevich;  
SMIRNOV, V.I., akademik, red.

[Relation of endogene ore formation to igneous activity and metamorphism; introduction to the metallogeny of the endogenetic processes of ore formation] Sviaz' endogennoye rudcobrazovaniia s magmatizmom i metamorfizmom; vvedenie v metallogeniю endogennykh protsessov rudoobrazovaniia. Moskva, Nedra, 1965. 299 p. (MIRA 18:5)

VINOGRADOV, A.P.; KORZHINSKIY, D.S.; SMIRNOV, V.I.; SHCHERBAKOV, D.I.;  
AYDIN'YAN, N.Kh.; VINOGRADOV, V.I.; VOL'FSON, F.I.; GENKIN, A.D.;  
DANCHEV, V.I., LUKIN, L.I.; OZEROVA, N.A.; PEREL'MAN, A.I.; REKHARSKIY,  
V.I.; SMORCHKOV, I.Ye.; FEODOT'YEV, K.M.; SHADLUN, T.N.; SHIPULIN, F.K.

Aleksandr Aleksandrovich Saukov, 1902-1964; obituary. Geol. rud. mestorozh.  
7 no.1:124-125 Ja-F '65. (MIRA 18:4)

3. 1965, "Izvestiya Akademii Nauk SSSR, Seriya Geologii".

[Geology of minerals] Geologiya i razvedka. Seriya Geologii.  
Moskva, Nedra, 1965. 589 p. (Min. 1965)

SMIRNOV, V.I.

Geological classification of hydrothermal deposits. Vest. Mosk. un.  
Ser. 4: Geol. 19 no.3:3-12 My-Je '64.

(MIRA 17:12)

1. Kafedra poleznykh iskopayemykh Moskovskogo universiteta.

GAZARYAN, Levon Marterosevich. SMIRNOV, V.I., prof., retsenzent;  
BABADZHAN, A.A., kand. tekhn. nauk, retsenzent; GUDIMA,  
N.V., red.

[Pyrometallurgy of copper] Pirometallurgiiia medi. 2. izd.,  
perer. i dop. Moskva, Metallurgiiia, 1965. 357 p.  
(MIRA 18:4)

L 29233-66 "ENT(1). IJP(6)" GG/WW.

SOURCE CODE: UR/0368/65/003/006/0560/0563

ACC NR: AP6019370

AUTHOR: Zhukov, A.G.; Smirnov, V.I.

ORG: none

TITLE: Polarizing properties of echellette gratings in the long-wave infrared region

SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 6, 1965, 560-563

TOPIC TAGS: light reflection, light polarization, spectrometer

ABSTRACT: Data are given on the polarizing properties, in the 62 to 650 micron band, of dispersion and filtering echellette gratings used in the monochromator of a long-wave spectrometer (see A. G. Zhukov, Optika I Spektroskopiya, Vol 17, p 284, 1964; English translation in Optics and Spectroscopy).

Reflection of polarized light by the gratings was measured as a function of the orientation of an electric field to the grating steps.

Two wire grids, having periods of 30 microns and spaced a few millimeters apart, served as a highly effective polarizer in the 62 to 650 micron band.

Two cases are considered: 1) in which the electrical field vector is at right angles to the plane of incidence and parallel to the grating steps, and 2) in which the vector is parallel to the plane of incidence and at right angles to the steps. The ratios  $a_{0p}/a_{0s}$  and  $a_{1p}/a_{1s}$  (where  $a_{0p}$  and  $a_{0s}$  are the zero order coefficients of reflection for the two cases and  $a_{1p}$  and  $a_{1s}$  are the first order coefficients, respectively) are used as the measures of grating reflectivity. Curves are plotted for the two cases showing the absolute values of the coefficients and the values of the ratios as dependent on the ratio of the wavelength to grating period. Also shown are curves of summed ratios  $a_p/a_s$  plotted as functions of wavelength for three sets of gratings studied. Some of the results differ from those of other authors. Orig. art. has: 3 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 13Nov64/ ORIG REF: 003/ OTH REF: 005

Card 1/1

UDC: 535.5



RYKOINOV, V.I.; SMIRNOV, V.I.

Separation of nickel from cobalt in ammonia solutions. Izv. vys.  
ucheb. zav.; tsvet. met. 7 no. 4:73-78 '64 (MIRA 19:1)

1. Ural'skiy politekhnicheskiy institut, kafedra metallurgii  
tyazhelykh tsvetnykh metallov.

PINAYEV, A.K.; SMIRNOV, V.I.; YABLONSKIY, Yu.A.

Electric conductivity of a zinc charge mixture. Izv. vys. ucheb.  
zav. ; tsvet. met. 7 no. 4:96-100 '64 (MIRA 19:1)

1. Ural'skiy politekhnicheskii institut, kafedra metallurgii  
tyazhelykh tsvetnykh metallov.

ZHUKOV, A.G.; SMIRNOV, V.I.

Polarizing properties of echelotte gratings in the long-wave  
infrared region. Zhur. prikl. spekt. 3 no. 6:560-563 B '65  
(MIRA 19:1)

1. Submitted November 13, 1964.

L 14472-66 EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/EIP(k)/EWP(b) JD/HM

ACC NR: AR5027746

SOURCE CODE: UR/0137/65/000/008/E013/E013

AUTHOR: Fedorov, A.K.; Smirnov, V.I.

ORG: none

TITLE: Fatigue strength of steel pipe joints welded by induction heat

SOURCE: Ref. zh. Metallurgiya, Abs. 8E84

REF SOURCE: Tr. Vses. n.-i. in-ta tokov vysokoy chastoty, vyp. 5, 1964, 38-42

TOPIC TAGS: steel, pipe, weld heat treatment, fatigue strength

TRANSLATION: A method was developed for butt welding pipe by induction heat, which gives a welded joint without an inside burr. The contact surfaces of the pipe to be joined were evenly heated to a plastic state (temperature ~1250-1280°C); this process was followed by the application of pressure resulting in a weld. Tests were made on welded steel-10 pipe of 38/32 mm diameter with changeable bending on an IS-2 machine. A conclusion was reached that joining steel-10 pipe by induction heat welding assures sufficient strength under changeable bending conditions. The presence of an outside reinforcement of the seam joint decreases the fatigue strength of the weld. Heat treatment (normalization) does not affect the increase in the strength of a welded joint with a changeable bending. V. Fomenko.

SUB CODE: 11, 13

Card 1/1

UDC: 621.791.001:539.4.629.9-462

35  
B

44, 55  
16

L 4379-66 EWT(m)/EWA(h)  
ACCESSION NR: AP5020258

UR/0367/65/002/001/0092/0096 <sup>3/</sup><sub>25</sub>

AUTHOR: D'yachenko, P. P.; Kuz'minov, B. D.; Smirnov, V. I.; Chernukhin, V. L.; Chubarov, S. I.

TITLE: Kinetic energies of fragments with various masses in the fission of U-235 by thermal and fast neutrons <sup>19</sup>

SOURCE: Yadernaya fizika, vl. 2, no. 1, 1965, 92-96

TOPIC TAGS: uranium, nuclear fission, fission product, fast neutron, thermal neutron

ABSTRACT: The kinetic energy distributions of fragments with various masses have been investigated in the fission of  $U^{235}$  by thermal neutrons and by neutrons of mean energy 720 kev, for the purpose of comparing the dependence of the total fragment kinetic energies on the fragment mass ratios at the two fissioning-neutron energies. The fission was produced in a layer of uranium enriched 90% in  $U^{235}$ , deposited on a thin organic film, and the fragment energy was measured with two surface-barrier silicon detectors. The detector signals were analyzed after amplification by a two-dimensional 128 x 128 channel pulse-height analyzer, which sorted the pulse heights and stored all the information obtained during the measurements.

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Card <sup>19</sup> 2/2

L 2773-66 EWT(m)/T - IJP(e)

ACCESSION NR: AP5021339

UR/0120/65/000/004/0100/0106  
539.283.078

37  
33  
03

AUTHOR: Matalin, L. A.; Smirnov, V. I.; Timokhin, L. A.; Chubarov, S. I.

TITLE: The reduction of counting losses in multichannel recorders by preliminary grouping of events

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1965, 100-106

TOPIC TAGS: multichannel analyzer, nuclear radiation spectrometer, pulse counter, pulse counting, group theory

ABSTRACT: The majority of registering devices used in nuclear spectrometry exhibit fixed dead time  $\tau$ . Pulse equalization devices are able to improve somewhat the situation and the quantity  $N_{inp} \tau$  (equal to the ratio of the average rate of input pulse arrivals ( $N_{inp}$ ) to the maximum possible registration rate  $N_{pmax} = 1/\tau$ ) may attain a magnitude  $\leq 0.5-0.7$ . New experiments now require rates corresponding to  $N_{inp} \tau \leq 1$ . The present authors studied an approach to counting loss reduction during the registration of statistically distributed pulses by introducing preliminary grouping of events. A theoretical analysis described in detail in the present paper shows that a simultaneous use of group-  
Card 1/2  
19

Card 2/2

SMIRNOV, Vasilii Ivanovich; MESHCHERYAKOV, Vasilii Vasil'yevich;  
SMIRNOVA, M.K., kand. tekhn. nauk, retsenzent; AL'SHITS,  
I.M., nauchn. red.; SHAKHNOVA, V.M., red.

[Testing and inspecting glass reinforced plastics used in  
shipbuilding] Ispytanie i kontrol' sudostroitel'nykh  
stekloplastikov. Leningrad, Sudostroenie, 1965. 186 p.  
(MIRA 18:6)

BOGDANOV, A.A., prof.; YERMAKOV, H.P.; KOPTEV-DVORNIKOV, V.S.;  
KHASHENINNIKOV, G.F.; LEONOV, G.P.; SMIRNOV, V.I. akal.

International Geological Congress in New Delhi. Vest.  
Mosk. un. Ser. 4: Geol. 20 no.3:3-16 My-Je '65.

(MIRA 18:7)



BAKHTYUKOV, V.M., inzh.; ZHILINSKIY, I.B., kand.tekhn.nauk, dotsent; SMIRNOV,  
V.I., kand.tekhn.nauk

Effect of the velocity of the surrounding medium on the disinte-  
gration characteristics of cylindrical jets of liquid. Izv.vys.  
ucheb.zav.; energ. 8 no.4:101-104 Ap '65.

(MIRA 18:4)

1. Moskovskiy institut khimicheskogo mashinostroyeniya.

L 55036-65 EWT(1)/EWP(m)/EWA(d)/EPR/EWA(1) Pd-1/Ps-4/P1-4 WW  
ACCESSION NR: AP5011581 UR/0143/65/000/004/0101/0104 31  
532.522 30  
AUTHOR: Bakhtyukov, V. M. (Engineer); Zhilinskiy, I. B. (Candidate of  
technical sciences, Docent); Smirnov, V. I. (Candidate of technical sciences) B

TITLE: Effect of the speed of an ambient medium upon the disintegration characteristics of liquid cylindrical jets

SOURCE: IVUZ. Energetika, no. 4, 1965, 101-104

TOPIC TAGS: fluid flow, liquid jet, liquid jet disintegration

ABSTRACT: The results are reported of an experimental determination of L and D in the disintegration of a liquid cylindrical jet moving with a speed  $u$ , in another liquid which moves with a commensurable speed  $u_2$ ; here, L is the length of the solid part of the jet and D is the representative size of the drops formed as a result of the disintegration. A jet of spindle oil was injected, at a rate of 0-0.565 lit/min, into a stream of water flowing at a rate of 0-10.5 lit/min. It

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L 55036-65

ACCESSION NR: AP5011581

was proven that, with a laminar flow, the speed of a continuous medium does not affect L. Curves showing the effect of Re-criterion on L and D for axisymmetrical and ondular disintegration types are presented. Design formulas (3 and 8) verified by the above experiments are given. Orig. art. has: 5 figures and 8 formulas.

ASSOCIATION: Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow Institute of Chemical Machine Building)

SUBMITTED: 06Mar64

ENCL: 00

SUB CODE: ME

NO REF SOV: 003

OTHER: 002

*gac*  
Card 2/2

KUFIKOVA, I.A.; NAZAROVA, A.I.; SMIRNOV, V.I.; FRIEDNYUK, V.G. (Moskva)

Methods for joining polyvinyl chloride films. Skvein.pron. no.4:  
10-13 31-45 1ok. (MIRA 17:10)

L 61038-65 EWT(m)/EPF(c)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) MJW/JD/WB

ACCESSION NR: AR5017433

UR/0137/65/000/006/I102/I102

49  
48  
6

SOURCE: Ref. zh. Metallurgiya, Abs. 61672

AUTHOR: Golovin, G. F.; Veyngarten, A. M.; Laanson, G. A.; Smirnov, V. I.  
*44,55* *44,55* *44,55* *44,55*

TITLE: Use of induction heating for surface hardening of OKh17N7Yu stainless steel  
*44,55, 18* *18*

CITED SOURCE: Tr. Vses. n.-i. in-ta tokov vysokoy chastoty, vyp. 5, 1964, 66-73  
*44,55*

TOPIC TAGS: induction hardening, stainless steel, metal hardening, hardness, corrosion resistance, metal friction, /OKh17N7Yu stainless steel.  
*18* *18*

TRANSLATION: The heat treatment of OKh17N7Yu steel of the transition class generally includes 3 operations: hardening, intermediate working, and annealing. The investigation was carried out on samples with a diameter of 30 mm, after forging and after heat treatment in the manner customary for this brand of steel with annealing at 575-585C (permitting production of articles of the required ductility). Induction heating of the samples for surface hardening was used only for

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hardening and intermediate treatment. Annealing was done in a furnace (because of the slow rate of dispersion hardening processes). The article gives the distribution of hardness over a cross section of the sample for different heat treatment conditions. Optimum treatment conditions for the sample after preliminary heat treatment ensure a hardness of the surface layer of from 400-415 H<sub>B</sub>. Samples after forging, worked under the same conditions, did not have the required hardness. A test of experimental gears made of billets with a diameter of 140 mm and a height of 30 mm subjected to heat treatment in accordance with the results of previous investigations, showed satisfactory results in operation with friction under corrosive conditions, A. Kachapin

SUB CODE: MM

ENCL: 00

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PETROVSKAYA, L.V.; SHAFIROV, V.I.; SHABDIN, I.N.

Problems of ore genesis at the 22d session of the International Geological Congress in India. Geol. razd. masterozh. 5 no.3:118-124. My-Je '65. (MIRA 18:7)

TIKHONOV, A.I.; SMIRNOV, V.I.

Data on the rate of antimony sulfide oxidation in a fluidized  
bed. Izv. vys. ucheb. zav.; sovet. met. 8 no. 3:23-26 1959.  
(MIRA 18:9)

1, Ural'skiy politekhnicheskiy institut, kafedra metallurgii  
tyazhelykh tsvetnykh metallov.



SMIRNOV, V.I., akademik

studying the inflammability of lead and zinc sublimates. Izv. vys. ucheb. zav.; tsvet. met. 8 no.4:62-67 '65. (MIRA 18:9)

1. Ural'skiy politekhnicheskiy institut i Vsesoyuznyy nauchno-issledovatel'skiy gornometallurgicheskiy institut tsvetnykh metallov. 2. AN KazSSR (for Smirnov).

SMIRNOV, V.K.

Electric casting of parts for agricultural machinery. Trudy NIIO  
NVTU no. 3: 7-13 '57. (MIRA 1957)  
(Metal castings) (Electric welding)

81534

185100

SOV/137-59-5-11224

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, p 247 (USSR)

AUTHORS: Tarnovskiy, I.Ya., Smirnov, V.K., Kotsar', S.L., Bedin, N.A.,  
Belyakov, V.I.

TITLE: Rolling of Track Links for Tractors

PERIODICAL: Tekhn. ekon. byul. Sovnarkhoz Chelyab. ekon. adm. r-na, 1958,  
Nr 7, pp 43 - 45

ABSTRACT: Information is given on technical possibilities and economical effectiveness of changing the manufacture of track links for S-80 tractors from stamping to longitudinal periodic rolling. Experimental rolling of links on a scale of 1 : 2, 1 : 3, 1 : 4, was carried out on a ChTZ test mill with rollers of 470 mm in diameter and on a UPI laboratory mill with rollers of 200 mm in diameter. Technical Specifications were developed for the design of a rolling mill and the principal scheme of the technological process was set-up for the production of links on a continuous automatic line. The rolling mill has rollers of 1,100 mm in diameter, revolving at a speed of 10 or 15 revolutions per minute, 44

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SMIRNOV, V.K., inzh.

Research on the process of blocking of a mine conveyor chain. Vop.  
rud. transp. no.4:50-60 '60 (MIRA 14:3)

1. Dnepropetrovskiy gornyy institut im. Artema.  
(Chains)  
(Conveying machinery)

SMIRNOV, V.K., Inzh.

Using computation to determine the mechanical characteristics of safety  
turboclutches. Izv. vys. ucheb. zav.; gor. zhur. 6 no.7:105-113 '63.  
(MIRA 16:9)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut  
imeni Artema. Rekomendovana kafedroy rudnichnogo transporta Dnepre-  
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(Clutches (Machinery))

SMIRNOV, V.K.

Operation of safety turboclutches in the braking process. Vop.  
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1. Dnepropetrovskiy gornyy institut.  
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(Clutches (Machinery))

SMIRNOV, V.K.

Distribution of forces in the chains of two-chain scraper conveyors.  
Vop. rud. transp. no.7:168-171 '63. (MIRA 16:9)

1. Dnepropetrovskiy gornyy institut.  
(Conveying machinery)

KATSOBASHVILI, Ya.R.; GARBER, Yu.N.; EL'BERT, E.I.; BELENKO, Z.G.;  
Prinimal uchastiye SMIRNOV, V.K., laborant

Hydrocracking of high boiling fractions of coal tar in a  
catalyst stationary bed under the pressure of 30 atoms.  
Koks i khim. no.10:48-52 0 '61. (MIRA 15:1)

1. Institut neftekhimicheskogo sinteza AN SSSR (for Katsobashvili).
2. Kuznetskiy filial Vostochnogo uglekhimicheskogo instituta  
(for Garber, El'bert, Belenko).  
(Cracking process)  
(Coal tar)



SHTORMAN, I.G., prof.; TIMOSHKIN, V.A., kand.tekhn.nauk; KRASILOVSKIY, L.S.,  
inzh.; IL'CHENKO, A.I., inzh.; BERLIN, M.Ya., inzh.; SMIRNOV, V.K.,  
inzh.; EPFEL', L.I., inzh.; FILIPPOV, A.M., inzh.

New two-member sectional TsDR traction chain for underground  
scraper conveyers... Ugol' Ukr. 6 no.2:33-34 F '62. (MIRA 15:2)  
(Conveying machinery)

SMIRNOV, V.K., inzh.; FILIPPOV, A.M., inzh.

Dynamic calculation of the BTST3 chain-type pusher. Vop. rud.  
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SMIRNOV, V.K.

Moscow Tire Plant. Kauch.i rez.no.1:42-43 Ja '57.  
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(MLBA 10:4)

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BONDAROVSKAYA, G.V., red.; TOKER, A.M., tekhn. red.

[Boring lathe operator] Tokar'-rastochnik. Moskva, Proftekh-  
izdat, 1962. 362 p. (MIRA 15:10)  
(Metal cutting) (Lathes)