

KUZNETSOV, E. A.

KUZNETSOV, E. A. The geology of the greenstone formations on the eastern slope of the Central Urals. Moskva, Izd-vo Akademii nauk SSSR, 1939. 248 p. (49-33146)

QE276.K78

KUZNETSOV, Ye. A., LITVINOVICH, N. V. and MARKOVA, N. G.

"A Geological Cross-Section of the Urals Along a Line Running from Pashnya Station Through the City of Kushva and Alapayevsk," Proceedings of the Moscow Geological Survey Inst., No.13, 1939, Moscow-Leningrad.

KUZNETSOV, E. A.

KUZNETSOV, E. A. The tectonics of the Central Urals. Moskva, 1941.  
139 p., maps. (49-31017)

QE276.K3

Calculation and graphic methods for the chemistry of  
eruptive rocks. E. A. Kuznetsov. *Vestnik Moskov.  
Univ.* 1947, No. 3, 37-47.—The proposed method is a  
combination of the previous methods of Niggli (C.A. 31,  
1337) and Zavaritskii, which expresses the chemistry of  
a given rock by at. and mol. quantities. The fundamental  
moles of nepheline (*N*), kallophilite (*K*),  $\text{CaO} \cdot \text{Al}_2\text{O}_3$  (*C*),  
and orthosilicates (*M*),  $\text{R}_2\text{SiO}_5$ , with quartz (*Q*) as excess  
silica. *K* and *N* are combined to the alkali-aluminosil-  
icate index (*A*). These 4 components of the ideal modal  
composition are represented in a simplified rectangular dia-  
gram. Addnl. important parameters are the ratios of  
 $K:N:C$ , or  $h:s:c$  (for  $h + s + c = 100$ ), which also rep-  
resent the corresponding ratio of the alkali-feldspars to  
anorthite if no feldspathoids are present in the rock. The  
silica *M* is complex and comprises several metal (Ca,  
Na, Mg, Mn, etc.) components which easily can be ex-  
pressed in similar ratios of the characteristic atoms. The  
general silicate content of the rock is additionally given  
in an index *S* (B + Ti atoms), outside the diagram, and  
is usually close to the silica content. A comparison is  
given for the results of Niggli's and Zavaritskii's figures  
and numerical data, with those of the new improved  
method. W. Birtl

CA

Crystallization of some porphyry rocks. ~~H. A. Kuznetsov. Vestnik Moshk. Univ. 1947, No. 6, 33-40.~~  
 On the basis of the calculation of the modal mineral components from the chem. analysis of euptive rocks given by Niggli, and the improvements proposed by Zavaritskii, K. discusses the crystn. course and the characteristic hiatus phenomena in the mineralization. Three distinct periods of crystn. are observed in porphyritic rocks of the Ural and Kazakhstan which are compared with the corresponding phenomena in the crystn. of simplified "haploioritic" melts of the system albite-anorthite-diopside. Amphiboles and K feldspar are formed by metasomatic reactions, and afdal. equil. in multicomponent systems for which the Niggli-Zavaritskii data give a first approximation. Schematic diagrams are developed which give an immediate impression of the crystn. paths followed in the natural magmas. Since the representative points of the compn. of most of the investigated porphyritic rocks are projected in the field of primary plagioclase, the first state of the crystn. is characterized by the prevailing formation of idiomorphic feldspars which systematically are changed in their compn. from more basic to intermediate types - until the crystn. curve meets the boundary face, for a

"eutectic" crystn. with "dark" metasilicates such as pyroxenes (which are later changed to amphiboles). A second and third state of crystn. comprises the complex phenomena observed in the finger-grained interstitial and ground-mass minerals which show a general tendency toward a progressive enrichment of siliceous components, ending in granitic residual melts. These late crystns. are easily understood taking the viewpoints of Vogt (C.A. 4, 733) in his theory on anchi-eutectic and anchimonominal rocks.  
 W. Hittel

CA KUZNETSOV, Ye.A.

Quantitative mineralogical composition of rocks and their chemical characteristics. Ye. A. Kuznetsov. *Vestnik Moskov. Univ.* 1947, No. 6, 100-113. -- Extensive material is used for the calcus, which chiefly concern the granites from Sverdlovsk in the Ural. The schists are derived from them by  $SiO_2$  addition; excess  $SiO_2$  is quartz. The dark minerals (pyroxenes and amphiboles) are similarly based on the orthoclinites. Particular calcus are given for the different Fe and Mg contents of micas in the Ural granites and granitoids. W. Rittel

KUZNETSOV, E. A.

Chemical Abst.  
Vol. 48 No. 8  
Apr. 25, 1954  
Mineralogical and Geological Chemistry

5  
EJW

~~New nepheline-containing rocks in the Ural. E. A. Kuznetsov. Uchenye Zapiski Kazansk. Universiteta. Seriya Geologiya i Mineralogiya No. 124, Geol. 2, 88-91 (1947).~~  
~~Report of a study of the shonkinites of the Ural. The nepheline-contg. shonkinite had on the av. the following compn.: microcline 83.7, albite 3.71, nepheline 8.57, analcite 0.40, olivine 0.58, augite 27.59, amphibole 2.58, biotite 2.99, magnetite 1.39, and apatite 0.92%.~~  
 Gladys S. Macy

EH

RUSSIAN, I. A.

42118 KUZNETSOV, YE. A. - Tektonicheskiye Nablyudeiya V Kaslins Koy I Kyshtymskoy dachakh na Urale V Oblasti razvitiya shchelochnykh porod. Vestnik Mosk. un-ta, 1948, No. 8, c 97-106. -- Bibliogr: 18 Nazv.

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



KUZHNETSOV, E. A.

KUZHNETSOV, E. A. A short course in Fedorov's method in petrography.  
Moskva. 1949. 43 p. (50-15874)

QE433.K8

KUZNETSOV, YE. A.

Geology, Structural - Sysert'

Tectonics of the Syseret' granite massif. Vest. Mosk. un., 5, No. 9, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October, 1952, ~~1952~~. Unclassified.

KUZNETSOV, Ye. A.

2

The petrographic characteristics of the Ural provinces. The role of alkaline rocks in the structure of the Tagil intrusive complex. E. A. Kuznetsov, *Vestnik Mosk. Univ.* 5, No. 10, Ser. Fiz.-Mat. i Estestven. Nauk No. 7, 143-53 (1960); cf. *C.A.* 44, 83f, 84cf.—K. describes the role of alk. syenites and basalts, including nepheline, hypersthene, and gabbroid or gabbro-norite types. They belong partly to the essexite type. One finds a gradual transition of syenite to diorite and gabbro in monzonite facies, and to gabbro-syenites. Tables give mineralogical compn. and numerical indexes of syenitic rocks which are plotted on compn. graphs. Essexite rocks are transition to orthoclastic gabbro. There are two phases of gabbro massif in development: one phase is rich in Ca and Mg or Ca and Na; the other phase is less enriched by alkalis (essexite type).

A. W. Daly

CA

8

Gabbro massif south of the river Baranchi in the Urals.  
V. A. Kuznetsov. *Trudy Inst. Geol. Nauk. Akad. Nauk  
S.S.S.R.* No. 116, *Petrog. Ser.* No. 36, 91 pp. (1951). — A  
description of the geology, stratigraphy, and petrography of  
this region together with the distribution of minerals and  
their chem. compos.

KUZNETSOV, YE. A.

Petrology

Petrographic problems of the Ural region., Izv. AN SSSR ser. geol., no 6, 1951.

9. Monthly List of Russian Accessions, Library of Congress, March 195~~1~~<sub>2</sub>, Uncl.

KUZNETSOV, Ye. A.

USSR/Geophysics - Intrusive Rocks

"Intrusive Rocks of the Dzhir-Kain-Agach Natural Boundary in Kazakhstan," Ye. A. Kuznetsov, Chair of Petrography, Moscow State U.

Vest Mos Univ, Ser Fizikomat i Yest Nauk, No 5, pp 165-179 - 1952

Describes intrusives belonging to the period of formation referred to the new Caledonian orogenesis, which intruded in siliceous shale, porphyrites and graywacke sandstone of the lower paleozoic and metamorphized by formations of various hornstones.

275167

1. KUZNETSOV, YE.A.
2. USSR (600)
4. Rocks, Igneous - Kazakhstan
7. Intrusive rock of the Dzhar-Kain-Agach massif in Kazakhstan. Vest.Mosk.un. 7 no.8  
1952

9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.

8

KOZNETSOV, Ye.A.

Deformation of gneissoid granites and granites in mylonite zones.  
(In: Akademiia nauk SSSR, Voprosy petrografii i mineralogii. Mo-  
skva, 1953. Vol. 1, p.119-149) (MLRA 7:4)  
(Mylonite) (Gneiss) (Granite)



KUZNETSOV, Ye.A.

Aleksandr Nikolaevich Zavaritskii [obituary]. *Biul.MOIP. Otd.geol.* 28 no.4:  
81-83 '53. (MIRA 6:9)

(Zavaritskii, Aleksandr Nikolaevich, 1884-1952)

KUZNETSOV, YE. A.

USSR/Geology - Societies

May/June 53

"Activities of the Geological Sections of the Moscow Society of Naturalists"

Byul Mosk Ob Isp Prit, Ot Geol, Vol 28, No 3, pp 76-88

Lists individually the activities conducted during the first part of 1953 by the following 7 sections of the Moscow Society of Naturalists: (1) geological (pres, M. V. Muratov; sec, A. I. Ravikovich); (2) mineralogical (pres, Ye. A. Kuznetsov; sec, Ye. M. Zakharova); (3) sedimentary rocks (pres, M. S. Shvetsov; sec, S. V. Tikhomirov); (4) hydrogeological (pres, O. K. Lange; sec, A. S. Dobil'yer); (5) paleontological (pres, A. A. Chernov; sec V. N. Shimanskiy); (6) geographical (pres, N. A. Gvozdetskiy; sec, V. S. Govorukhin); (7) chemistry.

267T87

*KUZNETSOV, Ye. A.*

KUZNETSOV, Ye. A.; ZINOVKIN, A. D.

Geological and petrological investigation of the Sysert granite  
massif. Trudy Inst.geol.nauk no.147:55-141 '53. (MIRA 7:3)  
(Sysert massif--Granite) (Granite--Sysert massif)

KUZNETSOV, Ye.A.

Petrological tectonics of alkali rocks of the eastern slope of  
the Urals. Trudy Inst.geol.nauk no.147:142-184 '53. (MIRA 7:3)  
(Ural Mountains--Petrology) (Petrology--Ural Mountains)

KUZNETSOV, Ya.A.; GHEVVERIKOV, S.D., redaktor; BERLING, N.I., redaktor;  
TIRIKHOVA, D.P., tekhnicheskii redaktor

[Petrography of magmatic and metamorphic rock] Petrografiia  
magmaticheskikh i metamorficheskikh porod. [Moskva] Izd-vo  
Moskovskogo univ., 1956. 411 p. (MLRA 9:7)  
(Rocks, Crystalline and metamorphic)

**KUZNETSOV, Ye.A.**

New data on the geology of the greenstone belt of the Urals and  
the pyrite mineralization related to it. Uch.sap.Mosk.un. no.176;  
115-121 '56. (MLRA 9:12)  
(Ural Mountains--Rocks, Igneous)  
(Ural Mountains--Pyrites)

*Kuznetsov, Ye. A.*

15-1957-7-9256

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,  
p 66 (USSR)

AUTHOR: Kuznetsov, Ye. A.

TITLE: Accessory Minerals in Rocks in the Ural Mountains  
(Aktsessornyye mineraly v gornykh porodakh Urala)

PERIODICAL: Sov. geologiya, vol 51, 1956, pp 239-244

ABSTRACT: Several systems of distribution of accessory minerals in various rocks of the Ural Mountains are examined. The content of magnetite (as shown in rocks of the Tagil'skiy massif) decreases uniformly from pyroxenites to aplites. Apatite and zircon are generally not present in dunites, peridotites, pyroxenites, and serpentinites. Saussuritized gabbro, in contrast to fresh gabbro, shows a marked enrichment in apatite and sphene. Svenite also shows a high content of apatite and sphene. An especially high content of apatite characterizes the melanocratic alkali syenites

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15-1957-7-9256

Accessory Minerals in Rocks in the Ural Mountains (Cont.)

of the Il'menskiy complex. Zircon is not found in rocks of the gabbro--peridotite group which do not contain quartz; it appears only in quartz gabbro-diorite ( $\text{SiO}_2$  52-56%). Alkaline rocks (syenites and miaskites) have a high zircon content. The majority of accessory minerals accumulated gradually in the later products of magmatic differentiation, and they crystallized at the same time as the latest rock-forming minerals (quartz and potash feldspar).

Card 2/2

O. V. Bryzgalin



KUZNETSOV, Ye.A.

Importance of maxima of quartz structural diagrams [with summary  
in English]. Sov. geol. 1 no.6:136-144 Je '58. (MIRA 11:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.  
(Quartz) (Crystallography)

AUTHOR: Kuznetsov, Ye.A. SOV-5-58-2-25/43

TITLE: Gabbro-Peridotite Formations of the Ural (Gabbro-peridotitovyye formatsii Urala)

PERIODICAL: Byulleten' Moskovskogo obshchestva ispytateley prirody - Otdel geologicheskii, 1958, Nr 2, p 150 (USSR)

ABSTRACT: In this article, the author enumerates the various formations of gabbro-peridotite magma, deals with the still unsolved problem of the age of gabbro-peridotite intrusions of the east slope of the Ural, and discusses the view held by B.M. Romanov on a possible development of multi-age belts of gabbro-peridotite intrusions due to the migration of geosynclinal glacial troughs.

1. Geology 2. Rock-Geophysical factors 3. Geological tetro-  
Determination

Card 1/1

*KUZNETSOV, Ye. A.*  
AUTHOR: None Given SOV-5-58-3-10/39  
TITLE: Chronicle. Activities of the Geological Sections of the Moscow Naturalist Society, Petrographical Section (Khronika. O deyatel'nosti geologicheskikh sektsiy Moskovskogo obshchestva ispytateley prirody, Petrograficheskaya sektsiya)  
PERIODICAL: Byulleten' Moskovskogo obshchestva ispytateley prirody, Otdel geologicheskii, 1958, Nr 3, pp 135-137 (USSR)  
ABSTRACT: On 6 February 1958, at a meeting under the chairmanship of Ye.A. Kuznetsov (secretary T.L. Nikol'skaya), Ya.D. Shenkman lectured "Several Paleozoic Intrusions of Eastern Tuva". On February 13, 1958, Ye.A. Kuznetsov gave a review of foreign literature pertaining to petrography. Questions on the submitted themes were asked by: Ya.D. Shenkman, Ye.K. Markhinin, and T.M. Dembo. A.M. Daminova lectured on the importance of the study of field spar in petrographical work. On February 20, a manual by Ye.A. Kuznetsov, entitled "Petrography of Magmatic and Metamorphic Rocks", was discussed by the following geologists: S.D. Chetverikov, V.I. Chernov, T.L. Nikol'skaya, V.S. Koptev-Dvornikov and T.M. Dembo. On February 27 E.I. Tikhomirova, on behalf of collective authors L.I. Blokhina, V.K. Zaravyayeva, I.S. Krasivskaya, M.A. Petrova, E.I. Tikhomirova, and Ye.B. Yakovleva, lectured on

Card 1/3

SOV-5-58-3-10/39

Chronicle. Activities of the Geological Sections of the Moscow Naturalist Society, Petrographical Section

"The problem of Classification of Clastic Volcanogene and Tuffogene-Sedimentary Rocks". Questions pertaining this subject were asked by the following geologists: S.K. Onikiyenko, Ye.K. Markhinin, O.M. Kanfel', A.D. Rakcheyev, T.I. Frolova, A.M. Daminova, T.Ya. Goncharova, M.N. Shcherbakova, Afonin, G.B. Rudnik. On March 6, 1958, Ye.K. Markhinin lectured on "The History of Volcanism on the Kunashir Island", which was discussed by: S.K. Onikiyenko, T.M. Dembo, A.D. Rakcheyev, V.S. Koptev-Dvornikov, V.N. Pavlinov, Ye.A. Kuznetsov. Ye.N. Odintsova, Doktorant of the Institut Biokhimi AN SSSR (Biochemical Institute AS USSR), drew attention to the fact that plants of this region had an extremely high content of sugar. Following the suggestion made by T.M. Dembo to discuss the question of indexes of mountain rocks in geologic mapping at the VSEGEI, it was moved to delegate V.Ye. Gandler to take up this problem with MGRI, MITSMIZ and VAGT. On March 13, 1958, O.S. Polkovy delivered a lecture on "Petrographic Features of Multi-Colored Devonian Massifs in the Betpak-Dala Desert". The

Card 2/3

SOV-5-58-3-10/39

Chronicle. Activities of the Geological Sections of the Moscow Naturalist Society, Petrographical Section

following geologists participated at the discussion: M.A. Dmitriyev, A.D. Rakcheyev, Ye.K. Markhinin, V.I. Chernov, A.M. Daminova, T.L. Nikol'skaya, V.Ye. Gendler, V.I. Chernov, T.M. Dembo, Ye.A. Kuznetsov and V.S. Koptev-Dvornikov. On March 20, 1958, M.G. Lomize lectured on "New Data on Jurassic Volcanism of the North-Western Caucasus". Questions pertaining to this report were asked by: Ye.B. Yakovleva, Ye.Ye. Milanovskiy, A.D. Rakcheyev, V.S. Koptev-Dvornikov. On March 27, 1958, N.A. Sirin lectured on "Recent Magmatism of the Urals". On the discussion that followed, questions were asked by the following geologists: T.L. Nikol'skaya, A.D. Rakcheyev, V.N. Gavrilova, Ye.K. Markhinin, and Ye.A. Kuznetsov.

1. Geology--USSR reports--USSR    2. Scientific personnel--Performance    3. Scientific

Card 3/3

KUZNETSOV, Ye.A.

Using the dispersion method for analyzing minerals. Nauch.  
dokl.vys.shkoly; geol.-geog.nauki no.2:18-24 '59.

(MIRA 12:8)

1. Moskovskiy universitet, geologicheskiy fakul'tet, kafedra  
petrografii.

(Mineralogy, Determinative)

KUZNETSOV, Ye.A.

Dispersion of double refraction. Izv. vys. ucheb. zav.; geol.  
1 razv. 2 no.1:60-67 Ja '59. (MIRA 12:10)

1.Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.  
(Refraction, Double)

KUZNETSOV, Ye.A.

Birefringence dispersion of some micas of the phlogopite-biotite series. Vest.Mosk.un.Ser.4; Geol. 15 no.2:3-18 Mr=Ap '60; (MIRA 14:4)

1. Kafedra petrografii Moskovskogo universiteta.  
(Mica)



KUZNETSOV, Ye.A.; CHEKHOVSK ICH, M.M.

Composition and birefringence dispersion of clinoclors from  
Karabash Mountain in the Urals. Vest. Mosk. un. Ser. 4: Geol.  
15 no.4:69-70 J1-Ag '60. (MIRA 13:10)

1. Kafedra petrográfii Moskovskogo universiteta.  
(Karabash region (Ural Mountains)—Chlorites)

KUZNETSOV, Ye.A.

More about the birefringence-dispersion and chemical composition  
of amphiboles from quartz diorites and gabbros of the Urals.  
Vest. mosk. un. Ser. 4: Geol. 15 no. 5:38-44 8-0 '60.

(MIRA 13:12)

1. Kafedra petrografii Moskovskogo universiteta.  
(Ural Mountains--Amphibole)

KUZNETSOV, Ye.A.; LI CHZHAO-LIN [Li Chao-ling]

Birefringence dispersion, chemical composition, and texture of  
beryls. Vest. Mosk. un. Ser. 4: Geol. 15 no.6:46-58 N-D '60.  
(MIRA 14:1)

1. Kafedra petrografii Moskovskogo universiteta.  
(Beryl)

KUZNETSOV, Ye.A.

Birefringence dispersion<sup>h</sup> and the structure of muscovite. Vest.  
Mosk. un. Ser. 4: Geol. 16 no.1:30-39 Ja-F '61.

(MIRA 14:3)

1. Kafedra petrografii Moskovskogo universiteta.  
(Muscovite)

KUZNETSOV, Ye.A.

Comparative birefringence dispersion method. Vest.Mosk.un.  
Ser.4:Geol. 16 no.5:67-77 S.O '61. (MIRA 14:9)  
(Refraction, Double)

GOLOV, A. Ye.; KUZNETSOV, Ye.A.; PUSHCHAROVSKIY, Yu. M.

Activities of the Polish Geological Society. Biul. MOIP. Otd.  
geol. 36 no.1:155-158 Ja-F '61. (MIRA 14:5)  
(Poland--Geological societies)

VARSANOF'YEVA, V.A.; BOGDANOV, A.A.; KUZNETSOV, Ye.A.; LANGE, O.K.;  
MERKLIN, R.L.; MURATOV, M.V.; PERMYAKOVA, A.I.; PETRUSHEVSKIY,  
B.A.; SOKOLOV, D.S.; SHVETSOV, M.S.; YANSHIN, A.L.

Nikolai Sergeevich Shatskii. Biul. MOIP. Otd.geol. 36 no.4:  
3-6 JI-Ag '61. (MIRA 14:9)  
(Shatskii, Nikolai Sergeevich, 1895-1960)

KUZNETSOV, Yefrem Aleksandrovich; CHETVERIKOVA, S.D., red.; SMIRNOVA, Z.A., red. izd-va; SHMAKOVA, T.M., tekhn. red.

[Method comparative birefringence dispersion; a new method for analyzing the chemical composition of crystalline substances]  
Metod analiza sravnitel'noi dispersii dvuprelomlenia; novyi metod analiza khimicheskogo sostava kristallicheskikh veshchestv.  
Pod red. S.D. Chetverikova. Moskva, Gosgeol'tekhnizdat, 1962. 103 p.  
(MIRA 16:2)

(Mineralogy, Determinative) (Refraction, Double)



KUZNETSOV, Ye.A.

Birefringence-dispersion, composition, and structure of some  
minerals. Vest.Mosk.un.Ser.4: Geol. 17 no.1:20-30 Ja-F '62.  
(MIRA 15:2)

1. Kafedra petrografii Moskovskogo universiteta.  
(Minerals--Analysis)

MALYSHEVA, T.Ya.; (Moskva); ~~KUZNETSOV~~, Ye.A. (Moskva)

Determining the chemical composition of metasilicates by the comparative dispersion method of the double refraction. Izv. AN SSSR. Mat. i gor. delo no.5:67-72 S-0 '63. (MIRA 16:11)

KUZNETSOV, Ye.A.; CHIBUKHCHYAN, Z.O.

Possibility of determining the absolute age of rocks by comparative birefringence dispersion. Sov.geol. 6:150-152 F '63. (MIRA 164)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.  
(Geological time) (Dispersimetry)

AFANAS'YEV, G.D., otv. red.; VOROB'YEVA, O.A., red.; USTIYEV, Ye.K., red.; KUZNETSOV, Ye.A., red.; TSVETKOV, A.I., red.; KOPTEV-DVORNIKOV, V.S., red.; SVESHNIKOVA, Ye.V., red.; MIRAKOVA, L.V., red. izd-vap RYLINA, Yu.V., tekhn. red.

[Magmas and the origin of igneous rocks] Problemy magmy i genezisa izverzhennykh gornykh porod. Sbornik posviashchen-nyi stoletiiu so dnia rozhdenia Frants Ul'evicha Levinsona-Lessinga. Moskva, 1963. 271 p. (MIRA 16:7)

1. Akademiya nauk SSSR. Otdeleniye geologo-geograficheskikh nauk. Chlen-korrespondent AN SSSR (for Afanas'yev).  
(Magma) (Rocks, Igneous)

KUZNETSOV, Y. A.

Sergei Dmitrievich Chetverikov; on his 70th birthday. Vest.  
Mosk. un. Ser. 4: Geol. 18 no.1:76-77 Ja-F '63.

(MIRA 16:6)  
(Chetverikov, Sergei Dmitrievich, 1892-)

KUZNETSOV, Ye. A.

Absolute geochronology and optics. Vest. Mosk. un. Ser. 4: Geol. 18  
no. 2: 13-20 Mr-Apr '63. (MIRA 16:5)

1. Kafedra petrografii Moskovskogo universiteta.  
(Crystal optics) (Potassium-argon dating)

KUZNETSOV, Ye. A.; SYUN DA-KHE [Hsiung Ta-ho]

Synthetic pyroxenes and their birefringence dispersion in  
connection with their composition. Vest. Mosk. un. Ser. 4;  
Geol. 18 no.3:31-38 My.-Je '63. (MIRA 16:10)

1. Kafedra petrografii Moskovskogo universiteta.

KUZNETSOV, Ye.A.

"Complex-tubercular" surface of the dispersion coefficient and  
the "crystalloptical mirage." Izv. AN SSSR. Ser. geol. 28  
no.11:97-98 N'63. (MIRA 17:2)



KUZNETSOV, Yefrem Aleksandrovich; CHETVERIKOV, S.D., red.

[Method of the comparative dispersion of double refraction;  
new method for the analysis of the chemical composition of  
crystal substances and the determination of the absolute  
age of rocks] Metod sravnitel'noi dispersii dvuprelomleniia;  
novyi metod analiza khimicheskogo sostava kristallicheskikh  
veshchestv i opredeleniia absolutnogo vozrasta gornykh po-  
rod. Izd.2., dop. Moskva, Izd-vo "Nedra," 1964. 179 p.  
(MIRA 17:10)

YEMEL'YANENKO, P.F.; KARZANOVA, A.Ya.; KUZNETSOV, Ye.A.

Biotites and amphiboles of the Akkuduk intrusive (Kazakhstan).  
Vest. Mosk. un. Ser. 4: Geol. 19 no.3:46-54 My-Je '64.

1. Kafedra petrografii Moskovskogo universiteta. (MIRA 17:12)

KUZNETSOV, Ye.A.; U TSZUH-SYUY [Wu TSung-hsu]

Composition of some minerals in the October Massif and metasomatic processes at the contact of alkali and basic rocks. Vest. Mosk. un. Ser 4: Geol. 20 no.1:28-35 Ja-F '65. (MIRA 18:3)

1. Kafedra petrografii Moskovskogo gosudarstvennogo universiteta.

KUZNETSOV, Ye.A.

In memory of Boris Vladimirovich Didkovskii, 1883-1938; obituary.  
Sov. geol. 8 no.8:169-170 Ag '65.

(MIRA 18:10)

VOROB'YEVA, O.A.; KUZNETSOV, Ye.A.

Egis Mikhailovich Kupletskii, 1894-1965?; an obituary. Izv.  
AN SSSR. Ser.geol. 30 no.11:128-131 N '65.

(MIRA 18:12)

ACC NR: AP6035937

SOURCE CODE: UF/0413/66/000/020/0198/0198

INVENTOR: Privalov, A. I.; ~~Kuznetsov, Ya. A.~~ Il'ichev, V. V.; Khudozhnikov, B. N.; Yegorychev, V. A.; Vel'ko, V. I.

ORG: none

TITLE: Electrohydraulic device for testing aircraft control units. Class 62, No. 187536

SOURCE: Izobreteniya, promyshlennyya obraztsy, tovarnyye znaki, no. 20, 1966, 198

TOPIC TAGS: ~~aircraft actuating equipment~~, aircraft control equipment, *hydraulic device, aircraft test, remote control, automatic remote control*

ABSTRACT: An Author Certificate has been issued for an electrohydraulic device for testing aircraft control units, which contains coupled hydraulic, pneumatic (e.g., nitrogen), and electrical systems mounted on a truck-trailer chassis. To provide automatic remote control of the control units of the systems while they are being tested, the device's electrical system has a polarized relay connected to the sliding contact of the control-unit-feedback potentiometer, through an intermediate resistance, and to a current divider consisting of two resistors. This provides power to an intermediate relay coil which is switched over by the control-winding contacts of the vane units.

[WH]  
[WA-98]

SUB CODE: 01/ SUBM DATE: 04Mar63/

Card 1/1

UDC: 629.13.01/06

ACC NR: AM6030414

Monograph

UR/

Chebotaevn, Iraina Ivanovna; Shcherbina, Yuriy Dmitriyevich; Kuznetsov, Yevgeniy Andreyevich

Reliability of potentiometric transducers and its technological provision (Nadezhnost' potentsiometricheskikh datchikov i yeye tekhnologicheskoye obespecheniye) Moscow, Izd-vo "Mashinostroyeniye", 1966. 113 p. illus., biblio. 6800 copies printed.

TOPIC TAGS: potentiometer, aircraft flight instrument, precision instrument industry, aircraft engine instrument, instrumentation satellite, precision potentiometer

PURPOSE AND COVERAGE: The book was written for engineers in the instrumentation industry, designers, design bureaus, and research-laboratory staffs. It deals with problems of aircraft-instrumentation reliability, possible defects in potentiometers, and the connection between these defects and the technology producing them. On the accuracy and reliability of potentiometers depend the accuracy and reliability of aircraft instrumentation in automatic navigation systems which are connected to radio systems and their components. The book analyzes the use in potentiometers of metallic and nonmetallic materials such as glass-fiber--reinforced plastic and glass-ceramics. The author stresses the importance and reliability of windings, etc., and the effect on instruments at

Card 1/2

UDC: 621.317.727.1

ACC NR: AM6030414

different temperatures. The basic factors which affect potentiometers in service are analyzed. The book was reviewed by V. S. Loktayev. There are 11 references, 8 of which are Soviet.

TABLE OF CONTENTS (abridged)

Introduction -- 3

- Ch. I. Basic characteristics of potentiometer reliability -- 5
- Ch. II. Frame and base of potentiometers -- 21
- Ch. III. Winding and impregnation of potentiometers -- 37
- Ch. IV. Dressing of potentiometer contact units -- 54
- Ch. V. Assembly of a potentiometric transducer in a device -- 74
- Ch. VI. Use of potentiometers -- 88

References -- 115

SUB CODE: 01, 17/

SUBM DATE: 18Feb66/

ORIG REF: 007/

OTH REF: 004

Card 2/2



KUZNETSOV, Ye.A.; MILOVSKIY, A.V.; FONAREV, V.I.

Determining the absolute age of metamorphic rocks and granitoids  
using the dispersion method in the southern Mugodzhar Hills.

Izv. AN Kazakh. SSR Ser. geol. 22 no. 6:75-78 N-D '65

(MIRA 19:1)

I. Moskovskiy gosudarstvennyy universitet.

1-7000

AUTHORS:

TITLE:

SOURCE:

29267  
S/579/61/000/000/001/002  
D221/D304

Kuznetsov, Ye.A., Zolotnitskaya, K.N. and Isakov, B.N.

A system of digital program control for a horizontal boring mill, model 262NP 1 (262PR1)

Kucher, I.M., ed. Avtomatizatsiya metallorezhushchikh stankov, Moscow, Mashgiz, 1961, 7-40

TEXT: The programmed control adopted for the boring mill can be used for long displacement machine tools. The accurate read-off is ensured by a feedback which excludes the effect of clearances and elastic deformations produced in the kinematic chains. The feedback is based on signals due to reflected light emanation produced by a precise scale. The coarse feedback is ensured by contact scale made in the form of Gray's code on punched cards. The Sverdlov factory designed a special perfora-

S/579/61/000/000/001/002  
D221/D304

APPROVED FOR RELEASE BY NSA/CSS ON 08-02-2013

A system of digital which automatically converts data which is entered in the decimal code into modified binary code (Gray code). The displacement of working members of the boring mill are ensured by electric motors with a wide range of speed (ratio of 1:800). This eliminates intermediate clutches and gears for realizing precise and fast motions. The change-over to another realizing operation is achieved by replacing the punched cards, and the required positions of moving members are governed by fixed datum lines. The coarse setting members are governed by fixed displacement of the table and boring spindle, and the lead-screws as a standard of length and a mechanical machining system programmed control covers the following: Vertical multiplier travel of headstock, control covers the following: Vertical multiplier, the precise feedback and table. The first two are controlled by system (B). The speed of longitudinal travel of spindle or table can be automatically changed during the passage of

Card 2/3

29267

S/579/61/000/000/001/002  
D221/D304

A system of digital ...

different sections. Special overhung holder allows the conversion of axial travel of the spindle into the radial displacement of tool. The program is recorded on four punched cards, according to ГОСТ (GOST) 6198-52. Each moving member has its own card, where the following data are punched: Required position of member with an accuracy of 0.01 mm, millimeter units and their fractions are recorded separately; the sign of increment, or direction of motion; in millimeter units; ditto in millimeter fractions; sequence of displacements, and finally, speeds of spindle and table longitudinal travel. The punched hole corresponds to unity, whereas absence of the former signifies zero. The correctness of perforations is checked by stencils, or by a code rule. The authors illustrate the method as applied to travel of the headstock, where the actuation of read-out by the photo-electric cells is given. The code scale is rolled over two drums in the case of a contact arrangement for the displacement, and the axis of one of them is actuated by the displacement

X

Card 3/6  
5

S/579/61/000/000/001/002  
D221/D304

A system of digital ...

of the moving member. A description is given of the read-out mechanism which is driven by a servo. The group of feedback comprises transducers for millimeter units and fractions, a reference bloc and an adjuster. The transducer of fractions (Fig. 6) is used for the automatic displacement of the photo-unit in relation to the screen of the optical device. The carriage 12, is actuated by servo, 6. It moves over the rule, 7, which is made of plastic with six metal rails that are provided with slots, and one plain rail. The rails are insulated. The pattern of metal protrusions corresponds to the Gray code. Each rail is touched by contacts of comb 3, held on the carriage ( and insulated). The photo-transducer, 10, is also fixed on the carriage. The transducer of millimeter units has a similar design as the coarse drum read-out arrangement. The adjuster controls a potentiometer arrangement. The lead screw driven by its servo is connected to the millimeter units read-out by a rack and pinion. The reference bloc of comparison consists of two independent

Card 4/6  
5

29267  
S/579/61/000/000/001/002  
D221/D304

A system of digital ...

parts which deal with millimeter units and their fractions. The system has separate cells working in parallel for indicating the coincidence of command and position codes. The bloc diagram of accurate feedback system (A) as well as that of system B are shown and a comment on their operation is given. This is followed by a description of the perforator and the order of sequence in machining programming. The speed of each controlled motor is determined by the input voltage of the electro-mechanical amplifier (ЭМУ) (EMU). The stability at low speed is ensured by a strong negative feedback and the correction due to additional amplification of voltage and power of the regulating signal is fed by the tacho-generator. The feed is encoded, and its conversion into voltage is provided by the system of the sequential potential divider. Digital program control ensures an accuracy of 0.03 mm in coordinate positioning, according to the authors. There are 15 figures, 1 table and 2 Soviet-bloc references.

Card 5/8  
5

KUZNETSOV, Ye.A.

Testing the work of liquefied gas regasification station. Gaz.prom.  
6 no.7:20-23 '61. (MIRA 17:2)

KUZNETSOV, Ye. A. kand. tekhn. nauk; TOKAREV, G., kand. tekhn. nauk

Regulations on the maintenance and repair of the rolling stock  
used in automotive transportation. Avt. transp. 41 no.5:16-18  
My '63. (MIRA 16:10)

1. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta.  
(Motor vehicles—Maintenance and repair)



MIZYURIN, S.R., kand.tekhn.nauk; KUZNETSOV, Ye.A.; MAYOROV, S.V.

Reciprocating parametric motor. Trudy MAI no.133:113-119 '61.  
(MIRA 14:5)

(Electric motors)

Kuznetsov Ye. A.

I-27

USSR /Chemical Technology. Chemical Products  
and Their Application

Wood chemistry products. Cellulose and its  
manufacture. Paper.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32681

Author : Kuznetsov Ye. A.

Title : Production of Sulfite Cellulose with a High  
Yield from the Cooking Vessel

Orig Pub: Sb.: Novaya tekhnika v proizvodstve sul'fitnoy  
tsellyulozy. M.-L., Goslesbumizdat, 1956,  
21-34

Abstract: An analysis is presented of the operation of  
sulfite cellose plants, by separate elements  
(yield of cellulose per 1 m<sup>3</sup> of cooker per run,  
yield by weight of cellulose on the basis of

Card 1/2

USSR /Chemical Technology. Chemical Products  
and Their Application

I-27

Wood chemistry products. Cellulose and its  
manufacture. Paper.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32681

the wood, shrinkage of chips in the cooker,  
turnover of cooker, vacuum treatment of chips  
after charging, steaming of chips from top of  
cooker, combined method of withdrawal of liquor  
from cooker and draining) and ways of improving  
it are pointed out.

Card 2/2

KUZNETSOV, Ye.A.

Wood-using industrial giant on the Angara. Bum.prom. 35  
no.7:3-4 Je '60. (MIRA 13:8)

1. Direktor Bratskogo lesopromyshlennogo kompleksa.  
(Bratsk--Wood-using industries)

KUZNETSOV, Ye.D.; VLADIMIROVA, M.G.

Iron as a factor restricting the growth of chlorella in the  
Tamiya medium. Fiziol. rast. 11 no.4:615-619 J1-Ag '64.

(MIRA 17:11)

1. Institut fiziologii rasteniy imeni Timiryazeva AN SSSR, Moskva.

VLADIMIROVA, M.G.; KUZNETSOV, Ye.D.

Dynamics of the variation of nitrogen and phosphorus content  
in the medium under various conditions of intensive cultivation  
of chlorella. Fiziol. rast. 11 no.5:827-837 S-O '64.

(MIRA 17:10)

1. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy  
of Sciences, Moscow.

KUZNETSOV, Ye.D.; VLADIMIROVA, M.G.

Changes in the mineral composition of the culture medium in the  
cultivation of Chlorella. Fiziol.rast. 12 no.1:33-38 Ja-F '65.  
(MIRA 18:3)

1. Institut fiziologii rasteniy imeni Timiryazeva AN SSSR, Moskva.

ACC NR: AP7004721 (A) SOURCE CODE: UR/0413/67/000/001/0005/0005

INVENTOR: Orro, P. I.; Savin, G. A.; Savchenko, O. N.; Chub, I. M.; Kuznetsov, Ye. D.

ORG: None

TITLE: A method for drawing steel tubes on a long mandrel. Class 7, No. 189788

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1967, 5

TOPIC TAGS: pipe, metalworking, metal drawing

ABSTRACT: This Author's Certificate introduces a method for drawing steel pipes on a long mandrel. Productivity is increased and provision is made for extraction of the mandrel from the tube after completion of the drawing process without rolling by drawing the tubes simultaneously through two plates--a working plate and an auxiliary plate located directly behind the working plate.

SUB CODE: 13/ SUBM DATE: 29Jun63

Card 1/1

UDC; 621.774.372

L 29730-66 EWP(k)/EWI(m)/I/EWP(t)/EII IJP(c) DJ/JD/HW

ACC NR: AP6012266 (N) SOURCE CODE: UR/0114/65/000/011/0007/0009

AUTHOR: Kuznetsov, Ye. F. (Engineer); Mesh, R. I. (Engineer);  
Shakhnovich, I. Ye. (Engineer)

62  
B

ORG: none

TITLE: Oil cooler made of tubes with low spiral fins

SOURCE: Energomashnostroyeniye, no. 11, 1965, 7-9

TOPIC TAGS: heat transfer, hydraulic resistance, cooling

ABSTRACT: The article reports the results of an investigation of heat transfer and hydraulic resistance in experimental and industrial oil coolers with tubes equipped with low spiral fins. The experimental oil cooler had a cooling surface of 2.465 square meters. It was arranged for transverse flow past the oil tubes, and consisted of 72 steel tubes with a diameter of 22 x 3 and a length of 250 mm. The tubes had outside spiral fins, turned on a lathe. 16 rows of tubes were located in a housing with a rectangular cross section; the spacing against the flow was 24 mm, and with the flow 20 mm. The industrial oil cooler had a cooling surface of 10.4 square meters and was made of brass tubes with a diameter of 14 x 1.5; the tubes also had outside spiral fins.

Card 1/2

UDC: 62-71:621.892.098



L 29730-66

ACC NR: AP6012266

0

Measurements were made of the temperature and the pressure of the heat transfer medium at the inlet and the outlet of the oil cooler, as well as of the flow rate of the heat transfer medium. Experimental results are exhibited in a series of curves which include diagrammatic sketches of the equipment. The overall results of tests on finned tubes and comparison with tests on smooth tubes indicated that tubes with low spiral fins permit a considerable increase in the compactness of the equipment and a significant decrease in the use of metal in their fabrication. Orig. art. has: 3 figures and 1 table.

SUB CODE: 3,20/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001

Card 2/2 CC

KUZNETSOV, Ye.E., inzh.; MESH, R.I., inzh.; SHAKHNOVICH, I.Ye., inzh.

Oil coolers from pipes with low spiral ribs. Energomashinostroenie  
11 no.11:7-9 N '65. (MIRA 18:11)

S/081/61/000/021/031/094  
B101/B147

AUTHORS: Kuznetsov, Ye. F., Eygenbrot, V. M.

TITLE: Contactless semiconductor integrating water meter

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 249, abstract  
21173 (Nauchno-tekhn. inform. Tsentr. byuro tekhn. inform.  
bum. 1 derevoobrabat. prom-sti GNTK SSSR, sb. 5, 1960, 53-56)

TEXT: The apparatus of the type (BM-3 (SVM-3) with magnetoelectric indication developed and produced by Orgenergobum is intended for measuring the total amount of liquid, gas, or vapor streaming through a pipeline within any period of time, an integrating flow meter being attached to the pipeline. The apparatus counts the number of passages of the counter rod of the integrator of the flow meter serving as a pickup. The indicator of the apparatus is made on the basis of a precision chronometer (secondary electric clock type 31-3B4 (31-EVCh) representing a pulsed electromagnetic motor whose armature turns through 30° on every change of voltage supplied to the stator winding. The armature shaft is connected with the pointer via speed reducer. The contactless trans-  
Card 1/2

Contactless semiconductor...

S/081/61/000/021/031/094  
B101/B147

mission of the integrator rod passages is performed by a transducer attachment basing on the modulation of a luminous flux. The latter is emitted from two lamps through an opening in the obturator which is fixed to the integrator rod. On passage of the light through the obturator, the photoconductive cells type ФСК-1 (FSK-1) are illuminated feeding pulses to the motor winding. The apparatus is fed from a 127-v mains, 50 ops. The distance between pickup and indicator may be up to 50 m. Maximum error  $\pm$  2.5%. [Abstracter's note: Complete translation.]

Card 2/2

GOL'DZIN, N.M., inzh.; IVASHCHENKO, M.M., kand. tekhn. nauk;  
KUZNETSOV, Ye.F., inzh.

Experimental study of the cooling system of the rotor of a gas  
turbine. Energomashinostroenie 11 no.5:5-7 My '65.

(MIRA 18:6)

KUZNETSOV, Ye.G., mekhanik

Improved coupling on an SE-3 excavator. Gor. zhur. no. 11:76  
N '60. (MIRA 13:10)

1. Ufaleyskiy rudnik, Ufaley, Chelyabinskoy obl.  
(Excavating machinery)

SOV/68-59-7-3/33

AUTHORS: Kuznetsov, Ye.G. and Zherdev, A.P.

TITLE: Methods of Improving Engineering Work

PERIODICAL: Koks i khimiya, 1959, Nr 7, pp 8 - 9 (USSR)

ABSTRACT: A reorganisation of the structure of the management and administration of the chemical, coking and coal beneficiation enterprises in the Stalino sovmarkhoz has been carried out during 1958 - 1959. During the reorganisation the number of personnel employed in the administration was decreased and various engineering services were strengthened. In addition to research groups at works laboratories, an additional four central research laboratories were organised: for investigating methods of beneficiation of coal at the Yasinovskiy Works; for research in the field of recovery and processing of coking by-products at the Makeyevka Works; for research in the field of new types of coals suitable for coking, and improvements in the coking methods of the Stalino Coking Works; for research in the field of organic synthesis at the Gorlovskiy Nitrogen-Fertilisers Works. In addition, the existing design-constructional group at "Yuzhkoksoremont" will be

Card 1/2

SOV/68-59-7-3/33

Methods of Improving Engineering Work

increased and design-constructional groups organised in coal beneficiation plants. The number of engineering-technical personnel will be increased during 1959 - 1960 by 87%.

ASSOCIATION: Stalinskiy Sovnarkhoz (Stalino Sovnarkhoz)

Card 2/2



SEKT, P.Ye.; TESLENKO, B.F.; TKACHEV, S.F.; LEVIN, S.A.; KUZNETSOV, Ye.G.

Technical and economic indices of the operation of the drying units  
for dewatering concentrated coals in the Donets Basin. Koks i khim.  
no.9:47-50 '60. (MIRA 13:9) |

1. Khar'kovskiy inzhenerno-ekonomicheskij institut (for Sekt, Teslenko,  
Tkachev, Levin). 2. Stalinskiy sovnarkhoz (for Kuznetsov).  
(Donets Basin--Coal--Drying) (Coal preparation)

KUZNETSOV, YE. G.

2

303:6  
3/081/62/000/005/083/112  
B162/B101

11.9700

AUTHORS: Papok, K. K., Zarubin, A. P., Zuseva, B. S., Danilin, V. P.,  
Zakharov, G. V., Kuznetsov Ye. G., Slavinskiy, A. G.

TITLE: Set of methods for evaluating the effects of additives on the  
operating properties of motor oils

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 528-529,  
abstract 54216 (Sb. "Prisadki k maslam i toplivam".  
M., Gosoptekhnizdat, 1961, 254-263)

TEXT: It is proposed that the operating properties of motor oils  
containing additives be evaluated by a series of laboratory methods  
consisting of 3 groups: (1) micromethods (total consumption of oil, 10 ml),  
(2) tests on #33 (PZV) and #33 (PZZ) apparatus (total consumption of oil,  
0.5 l) and (3) tests on the IT9-5 (IT9-5) and IT9-3 (IT9-3) single  
cylinder engines (total consumption of oil, 2.5 l). The first group  
covers determination of: thermooxidizing stability and coefficient of  
lacquer formation (OCT4953-49 (GOST 4953-49) and OCT9352-60 (GOST 9352-  
-60)), motor volatility, active fraction and tendency to form lacquer

Card 1/3

2

Set of methods ...

S/081/62/000/005/083/112  
B162/B101

(GOST 5737-53 (GOST 5737-53)), thin-layer evaporation of the oil (GOST 8674-58 (GOST 8674-58)), critical lacquer formation temperature (method described) and the scale-forming properties by evaporating 0.2 g of oil in an aluminum cup at 400°C until a carbon residue is formed (method described). On the PZV apparatus, they evaluate the washing properties of the oil according to GOST 5726-52 (GOST 5726-52) and the emulsifying properties (method described). In the test on the PZZ apparatus the oil is mixed with air and circulated at 150°C through a cell with lead and copper plates, and after 2 hrs circulation the corrosion of the lead plates is determined, the sediment in the oil on diluting with isooctane and the evaporation of the oil during the test (method described). On the IT9-5 engine primary motor tests are carried out by the NII GSM-20 method for 20 hrs, evaluating the formation of lacquer on the piston and the corrosion properties of the oil from the loss in weight of the lead plates in the cell through which the working oil circulates. On the IT9-3 engine the scale-forming capacity of the oil is evaluated by the PZI (method described), by which the quantity of scale on aluminum surfaces

Card 2/3

Set of methods ...

S/081/62/000/005/083/112  
B162/B101

in the precombustion chamber of the engine is determined, the oil being added in a quantity of 3% to the fuel (TC-1 (TS-1) or white spirit) and 4 five-minute tests being carried out for each oil sample. The results of the evaluation of oils with different additives using these methods are given. [Abstracter's note: Complete translation.]

Card 3/3

PLIT, I.G.; KUZNETSOV, Ye.G.; LOBODA, N.S.; SHEVCHENKO, A.I.

Investigation of the process of hydrogen sulfide removal from coke-oven gas by potassium solutions in a scrubber with a pulverizing-atomizing plate. Koks i khim. no.10:42-47 0 '61.

(MIRA 15:1)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut (for Plit). 2. Stalinskiy sovnarkhoz (for Kuznetsov). 3. Dnepropetrovskiy sovnarkhoz (for Loboda). 4. Yasinovskiy koksokhimi-cheskiy zavod (for Shevchenko).

(Hydrogen sulfide)

(Gas purification)

(Scrubber (Chemical technology))

KUZNETSOV, Ye.G.; ZHERDEV, A.P.

Plant laboratories of the Donets Region from 1959 to 1961. Koks  
i khim. no.2:53-56 '62. (MIRA 15:3)

1. Donetskly sovmarkhoz.  
(Donets Basin--Coke industry)

SMIRNOV, M.S.; OCHERETIYANYI, I.T.; KUZNETSOV, Ye.G.; DNEPROV, V.N.

Testing of domestic and foreign additives to lubricants in  
high-speed diesel engines. Khim. i tekhn. topl. i masel 8  
no.4:56-59 Ap '63. (MIRA 16:6)

(Diesel fuels—Additives)

ACC NR: AP6034378 (A,N)

SOURCE CODE: UR/0318/66/000/010/0007/0010

AUTHOR: Englin, B. A.; Kuznetsov, Ye. G.

ORG: None

TITLE: The effect of unsaturated hydrocarbons on the tendency of diesel fuels to form deposits in injector nozzles

SOURCE: Neftepererabotka i neftekhimiya, no. 10, 1966, 7-10

TOPIC TAGS: hydrocarbon, diesel fuel, fuel injector, petroleum product, fuel deposit formation

ABSTRACT: The authors study the effect of unsaturated hydrocarbons on the susceptibility of diesel fuels toward forming deposits in injector nozzles. Two samples of kerosene were used for studying this phenomenon produced at the Moscow and Saratov petroleum processing plants. The iodine numbers of these kerosenes are 34.6 and 30.7 respectively. Kerosenes produced by cracking were added to diesel fuel in 30% quantities, where the diesel fuel was produced by hydraulic filtration of the distillate from sulfurous petroleum. The kerosene produced at the Saratov plant was also tested in its pure form. The effect of unsaturated hydrocarbons on the susceptibility of diesel fuel to deposit formation in injector nozzles was tested on a specially made injector stand which simulated an engine fuel injection system. The tests were con-

Card 1/3

UDC: 662.753.323



ACC NR: AP6034378

ducted at a minimum fuel pump delivery of 5.4-5.7 or 1.8-1.9 kg/hr to each section of the pump, i. e. to two injectors operating in parallel. The force required for extracting the nozzle valve from the injector housing, lacquer film thickness and weight of the deposits in the injector filter were used as the indices for evaluating the susceptibility of fuel to forming tar and varnish deposits on the fuel injector valve nozzles. The tests were carried out at fuel temperatures of 145, 157 and 170°C inside the fuel injectors. A table is given showing data on the effect which kerosene produced by thermal cracking at the Moscow Petroleum Processing Plant (both in pure form and hydraulically filtered) has on the susceptibility to deposit formation on injector nozzles. These data show that the presence of unsaturated hydrocarbons in kerosene produced by thermal cracking has a rather strong effect on their tendency to form deposits. Even at 145°C, deposits were observed on injector nozzles operating on kerosene produced by cracking. At 157°, the deposits accumulate to the point where the nozzle valves stick. The mixture of 30% kerosene produced by cracking and 70% hydraulically filtered fuel is not as susceptible to deposit as is pure kerosene produced by cracking, however, one needle did malfunction at 145°C and stuck at 157°C. Poorer performance was observed for fuel injectors functioning on kerosene produced by cracking which is added to diesel fuel at the Saratov Petroleum Processing Plant. Test results for this type of kerosene show that varnish formed on the injector nozzles to such an extent that a force of 11.0-12.1 kg was required to free them. Although performance of this fuel fraction is still poorer at higher temperatures, even 30% kerosene content in hydraulically filtered fuel has the same effect on valve sticking as

Car: 2/3

ACC NR: AP6034378

pure kerosene. This brings out an important question. Is it at all economically and otherwise efficient to add thermal cracking products as components to diesel fuels which are to be used in fuel injection engines? Orig. art. has: 1 figure, 3 tables.

SUB CODE: 07, 21/ SUBM DATE: None/ ORIG REF: 002

Card 3/3

KUZNETSOV, Ye. I.

Dynamics of cutaneous temperature asymmetry in dogs with limited  
cerebrocortical lesions. Fiziol. zhur. 45 no.5:541-548 My '59.  
(MIRA 12:7)

1. Kafedra fiziologii Meditsinskogo instituta, Yaroslavl'.

(CEREBRAL CORTEX, physiol.

eff. of limited lesions on skin temperature, asymmetric  
changes in dogs (Rus))

(BODY TEMPERATURE, physiol.

asymmetric changes of skin temperature after limited  
cerebrocortical lesions in dogs (Rus))

KUZNETSOV, Ye. I.; SINGATULIN, R. G.

Role of the posterior roots in the regulation of the secretory  
function of the stomach. Fiziol. zhur. 46 no.12:1476-1482 D '60.  
(MIRA 14:1)

1. Kafedra fiziologii Meditsinskogo instituta, Yaroslavl'.  
(SPINAL CORD) (STOMACH—SECRETIONS)

<sup>z</sup>  
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AUTHOR: Kuznetsov, Ya. I. (Moscow); Negnevitskiy, I. B. (Moscow); Negnevitskiy, S. B. (Moscow)

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ABSTRACT: Static characteristics of logarithmic magnetic amplifiers (LMA) whose feedback contains a logarithmic-characteristic diode are examined. LMA's with parallel, series, and magnetic feedbacks are described by similar input-output-voltage equations; the latter differ only by their constant coefficients. The logarithmic characteristic can also be ensured by a piecewise-linear approximation arrangement (Si voltage-regulating diodes). The systematic logarithmic-function error is due to (a) an output-voltage component proportional to the input voltage and (b) finite amplifier gain. The first error source can be compensated by subtracting, from the output voltage, a special voltage proportional to the input voltage and equal to the absolute error. This special voltage can be derived from an auxiliary (isolating) magnetic amplifier. Thus the ultimate error will contain only the (b) error component. Heavier currents in the logarithmic element ensure lower drifts; in this respect, the approximating-element circuit is the most suitable

Card 1/2

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Recommendations for selecting the LMA circuit to fit specified conditions are given. Some results of an experimental verification, with particular reference to the above error-reduction method, are reported; single-ended, 400-cps amplifiers were tested. Orig. art. has: 5 figures, 20 formulas, and 4 tables. [03]

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