in this area is, therefore, 1300 ± 100 million years old. This corresponds to the conditions on the neighboring continents: Isa Mine (Isa Mayn'), Australia, 1190 million years, Kaggdi, Africa, 1370 million years. There are 2 tables and 1 American reference.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moskva (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy of the AS USSR, Moscow)

SUBMITTED: April 17, 1959

3(5)
AUTHORS: Baranov, V. I., Knorre, K. G. SOV/7-59-6-14/17

TITLE: Chronicle. The VIII Session of the Commission for the Determination of the Absolute Age of Geological Formations (at the Otdeleniye Geologo-geograficheskikh nauk AN SSSR (Department of Geological-geographical Sciences AS USSR), May 18 - 22, 1959, Moscow)

PERIODICAL: Geokhimiya, 1959, Nr 6, pp 562 - 563 (USSR)

ABSTRACT: The 8th regular session of the (Commission on the Determination of the Absolute Age of Geological Formations) was held in Moscow from May 18 to May 22, 1959 at the Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy). A series of summarizing reports was held on age determinations in the most important parts of the USSR, which are to be presented to the 21st International Geological Congress. The following reports are concerned:
A. V. Polkanov, E. K. Gerling: Problems of the absolute age of the Precambrian of the Baltic Shield.
A. P. Vinogradov, L. V. Komlev, A. I. Tugarinov: The absolute age of the Ukrainian crystalline shield.
P. P. Semenenko, Ye. S. Burkser, and M. N. Ivantishin: Age

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Chronicle. The VIII Session of the Commission for the Determination of the Absolute Age of Geological Formations (at the Otdeleniye Geologo-geograficheskikh nauk AN SSSR (Department of Geological-geographical Sciences AS USSR), May 18 - 22, 1959, Moscow)

groups of the mineralization of the rocks of the Ukraine in their absolute age.
A. P. Vinogradov, A. I. Tugarinov, K. G. Knorre, and Ye. V. Bibikova, V. V. Zhirova, S. I. Zykov: The age of the Precambrian rocks of the crystalline fundament of the Russian Platform.
I. Ye. Starik, A. Ya. Krylov, M. G. Ravich, Yu. I. Silin: The absolute age of the rocks of the eastern part of the Antarctic continent.
A. Ya. Krylov: The absolute age of the rocks of the Tsentral'nyy Tyan' Shan' and the employment of the argon method for metamorphous and sedimentary rocks.
G. D. Afanas'yev: Results of the geochrony formations of the Caucasus.
L. P. Ovchinnikov and M. A. Garris: Age of the geological formations of the Urals and the Priural'ye (Cis-Urals).
N. I. Poleva and G. A. Nurina, G. A. Kazakov: Absolute age determination of the sedimentary and volcanic formations.
L. P. Krasnyy and N. I. Poleva: Absolute age of the magmatic

Chronicle. The VIII Session of the Commission for the Determination of the Absolute Age of Geological Formations (at the Otdeleniye Geologo-geograficheskikh nauk AN SSSR (Department of Geological-geographical Sciences AS USSR), May 18 - 22, 1959, Moscow)

rocks of the (Soviet) Far East.

L. V. Komlev: Absolute age of the granite intrusions of Kazakhstan.

The research work of a number of laboratories, RIAN, GEOKhI, LAGED, VSEGEI, UFAN, etc aroused great attention, especially a report of E. K. Gerling, Yu. A. Shukolyukov on the concentration of the isotope Ar^{38} in uranium minerals as well as the comprehensive research work carried out by the vozrastnaya laboratoriya Akademiya nauk Gruzinskoy SSR (Laboratory of Age Determination of the Academy of Sciences of the Gruzinskaya SSR) under the application of isotopic dilution and flame photometry. The determination of the age of sedimentary rocks was discussed; A. Ya. Krylov proved in his report how well radiogenic argon is conserved in desbroyed products of rocks such as boulders, sands, sandstones, clays, and muds. A. I. Tugarinov and S. I. Zykov were the first to attempt to determine the absolute age of sedimentary carbonate formations according to isotopic composition of lead. D. I. Shcherbakov

Card 3/4

Chronicle. The VIII Session of the Commission for the Determination of the Absolute Age of Geological Formations (at the Otdeleniye Geologo-geograficheskikh nauk AN SSSR (Department of Geological-geographical Sciences AS USSR), May 18 - 22, 1959, Moscow) SOV/7-59-6-14/17

reminded of the resolution approved at the 7th session to draw standard maps for the age determination, which would serve a more accurate stratigraphic distribution, and the compilation of a Soviet table of absolute age. I. Ye. Starik spoke about control of standard samples of biotite, muscovite and microcline which had been collected under the direction of G. D. Afanas'yev. The results achieved by the individual laboratories are in good agreement. J. L. Culp, Professor of Columbia University participated also in the session. His report on a new geochrony table caused vivid attention. The resolutions of the 8th session contain the plan of a Soviet geochrony table which is to be designed under the direction of a commission. Holmes' well-known scale is to be used as a basis of the new table to be drawn by Soviet scientists under consideration of necessary improvements and completions.

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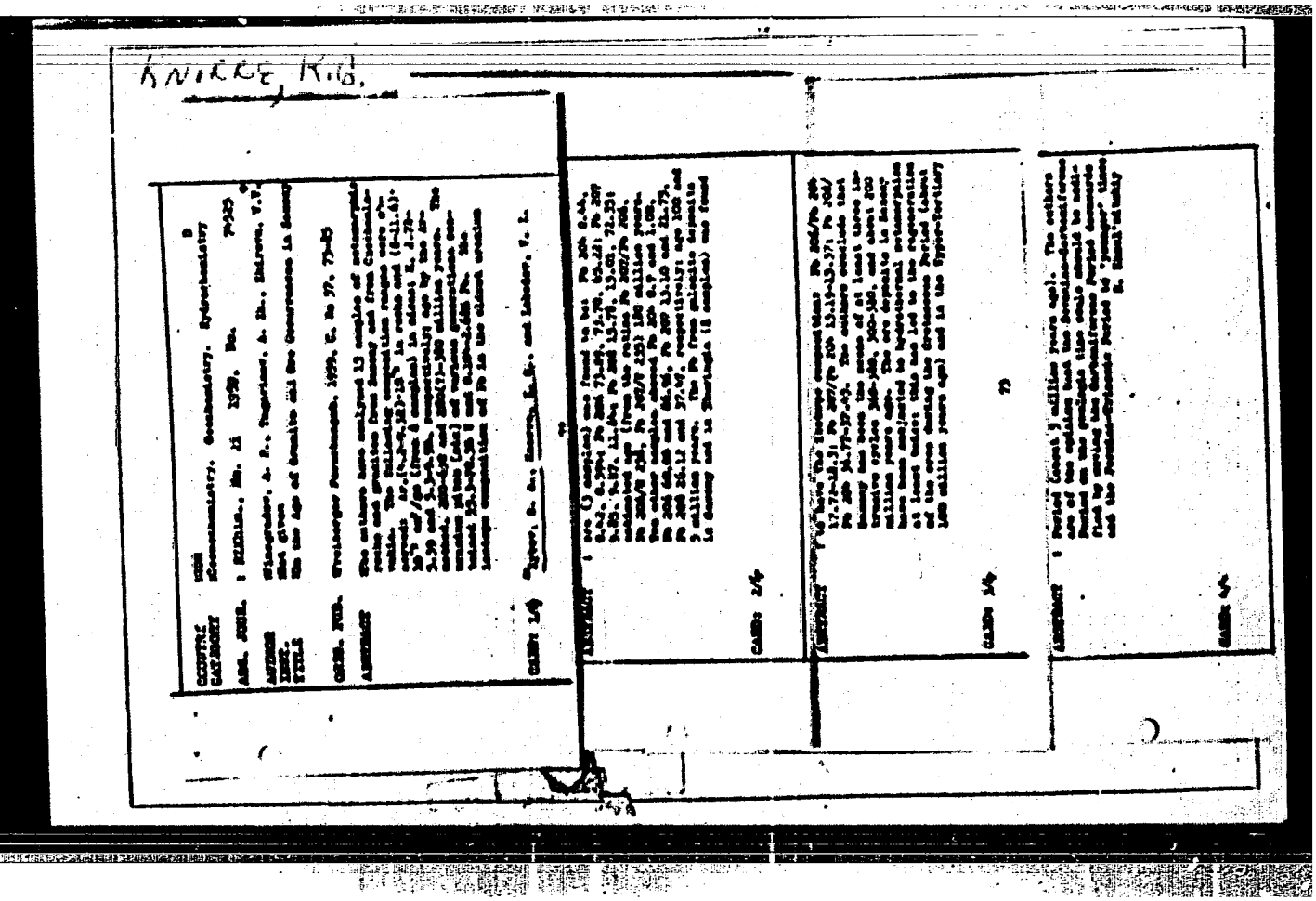

BARANOV, V.I., KHORE, K.G.

The first Soviet geochronological scale. Geokhimiia no.7:661 '60. (MIRA 13:11)

(Geological time)

VINOGRADOV, A.P., akademik; ZADOROZHNYY, I.K.; KHERR, K.O.

Argon in meteorites. Meteoritika no.18:92-99 '60.
(MIRA 13:5)
(Meteorites--Analysis) (Argon)

BARANOV, V.I.; KHOREM, K.O.

First Soviet geochronological scale. Vest.AN SSSR 30 no.9: 102-103 S '60. (MIRA 13:9)
(Geological time)

BARANOV, V.I.; KHORRE, K.O.

Age and evolution of meteoritic and terrestrial matter in the light of recent research. Meteoritika no.21:15-31 '61. (MIRA 14:11)
(Meteorites—Age) (Earth—Age)

BARANOV, V.I.; KNORRE, K.G.

New development in determining the absolute geological age. Vest. AN SSSR 31 no.10:131-132 O '61. (MIRA 14:9)
(Geological time--Congresses)

KAZAKOV, G.A.; KNORRE, K.G.; PROKOF'YEVA, L.N.

Absolute age of Pre-Cambrian sedimentary rocks in the Olenek highland of Eastern Siberia. Geokhimiia no.11:1313-1317 N '65. (MIRA 19:1)

1. Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo AN SSSR, Moskva. Submitted November 24, 1964.

[illegible]

[illegible]

A Method for Measuring Certain Electric Constants at Centimetre Wavelengths.—[illegible]. (Bull. Acad. Sci. U.R.S.S., sér. phys., [illegible], Vol. 10, No. 1, pp. [illegible]. In Russian.) A rectangular cavity resonator is considered with ideally conducting walls and divided into three zones each representing a different dielectric medium (Fig. 1). The discussion is limited to H-waves and systems of equations (3) and (7) are derived determining the field in each zone. On the basis of the results obtained a method is proposed for measuring the dielectric constant of a medium. The method is based on obtaining resonance by moving one of the end walls of the resonator. The damping of a resonator containing a dielectric is discussed and also the possibility of measuring losses in the dielectric.

AUTHORS: Baranov, V. I., Knorre, K. G. SOV/7-58-5-13/15

TITLE: Chronicle. Transactions of the Seventh Session of the Commission for Determination of the Absolute Age of Geological Formations (Moscow, 1958)(Khronika. VII sessiya Komissii po opredeleniyu absolyutnogo vozrasta geologicheskikh formatsiy /Moskva, 1958 g./)

PERIODICAL: Geokhimiya, 1958, Nr 5, pp. 506 - 507 (USSR)

ABSTRACT: The VII regular session of the Commission for the Determination of the Absolute Age of Geological Formations at the Department of Geological and Geographical Sciences AS USSR took place in Moscow from May 8 to 12, 1958. About 60 lectures were delivered by scientists from Moscow, Leningrad, Kiyev, Sverdlovsk, Makhach-Kala and other towns of the USSR; they dealt with the geological chronology of various areas. Also a number of methodical informations were submitted. The opening speech was held by D.I.Shcherbakov, Member, Academy of Sciences, USSR. A.A.Polkanov spoke about the geochronology of the Precambrian of the Baltic Shield. N.P.Semenko showed that the Precambrian of the entire planet may be divided into four cycles each of

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Chronicle. - Transactions of the Seventh Session of the Commission for Determination of the Absolute Age of Geological Formations (Moscow, 1958) SOV/7-58-5-13/15

the order of million years on the basis of the determinations of their absolute age: 1)3200 - 2700 mill. years. 2) 2600 - 1900 mill. years. 3)1800 - 1200 mill. years. 4)1100 - 500 mill. years. Then follows the cycle of the Late Cambrian 400 - 300 mill. years. A number of lectures dealt with the geochronology of single regions: Ukraine (L.V.Komlev et al.), Ural (L.P. Ovchinnikov), Eastern Germany (the group of A.P.Vinogradov). The Bulgarian scientist Iordanov dealt with the problems concerning the plutonic rocks in Bulgaria. A.Ya.Krylov spoke about the employment of the argon method in weathered sedimentary rocks. The seventh session brought about a change in the opinion of the geologists about the determination of age. The methods of the determination of the absolute age are now fully acknowledged as working method, just like chemical analysis. Independent laboratories were built for the individual regions. The argon method which earlier was still in the experimental stage has now become a classical method. E,K.Gerling spoke about the new constant for the K capture of K^{40} when the new value is used in the calculation higher values

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for the age are obtained. In connection herewith A.P.Vinogradov, Member, Academy of Sciences, USSR, suggested to drop the certification of the age determinations practiced by the commission. A great number of lectures dealt with the problem of the conservation of argon in minerals used for the determination of age. In the contribution submitted by the collaborators of the Dagestan Branch of the AS USSR (Dagestanskiy filial AN SSSR) a new method was suggested for the separation of that part of argon and potassium which is conserved best. N.I.Poleva spoke about the first work in the USSR dealing with the K/Ca method of age determination. Since already a considerable amount of reliable age determinations has accumulated it may be started to compile a Soviet geochronological scale. A commission was set up for this purpose, which was joined by the leading scientists in the field of geochronology.

Chronicle. - Transactions of the Seventh Session of the Commission for Determination of the Absolute Age of Geological Formations (Moscow, 1958) SOV/7-58-5-13/15

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S/275/63/000/003/016/021
A062/A127

AUTHOR: Knorre, K.G.

TITLE: VHF field parameters, determining the hygienic evaluation of labor conditions, and the problems of their measurement

PERIODICAL: Referativnyy zhurnal, Elektronika i yeye primeneniye, no. 3, 1963, 7, abstract 3V42 (Tr. In-ta gigiyeny truda i prof. zabolevaniy AMN SSSR, no. I, 1961, 11 - 21)

TEXT: Various parameters of vhf fields acting on the human organism are considered. It is pointed out that, besides the thermal effect of vhf [illegible] the seperate effect of electric and magnetic fields, the character of radiation, the magnetic field polarization and the direction of radiation should be taken into account. The conditions of irradiation in the wave zone (in the case of vhf) and in the induction zone (in the case of long waves) are analyzed. The radiation intensity in the wave zone is characterized by the radiation flux density. In the induction zone the radiation intensity can be evaluated by the strength of electric and magnetic fields.

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VHF field parameters, determining...

Since biological objects are not anisotropic, the effect of vhf fields at a different orientation in electric and magnetic fields will be different. At a pulse modulation accompanied by wide oscillation amplitudes irreversible physical processes can take place. Therefore, in such cases the duration of the pulse and the pulse repetition frequency should be taken into account. For measuring vhf energy values a living organism should be considered as a nonhomogeneous medium.

N.M.

[Abstracter's note: Complete translation.]

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S/275/63/000/003/016/021
A052/A126

AUTHORS: Belitskiy, B.M., Knorre, K.G.

TITLE: Radiation protection during work with VHF generators

PERIODICAL: Referativnyy zhurnal, Elektronika i yeye primeneniye, no. 3, 1963, 7, abstract 3V40 (Tr. In-ta gigiyeny truda i prof. zabolevaniy AMN SSSR, no. 1, 1962, 107 - 117)

TEXT: Various methods of radiation protection are discussed. It is pointed out that at a diameter of the screen wire of 0.08 mm and at a mesh number of 559/1cm^2 the attenuation in the 3 cm band reaches 50db and in the 10 cm band 41db. Also absorption screens of KB, KhV, material can be used. These screens secure a VHF energy attenuation $\geq$ 45db. During continuous work with the switched-on vhf generator various power absorbers (antenna equivalents) should be used to protect the personnel. The absorbed power can reach 100 w, and for special materials as much as 1,000 w. At the same time the radiation intensity decreases by 40db and makes up 1μw/cm^2. The conditions applicable to working and screening rooms are specified. The building of a main wall 70 cm thick gives in the 3 cm band an attenuation

Card 1/2

Radiation protection during ...

of 21db and in the 10 cm band one of only 16db; respective values for double [illegible] windows are 13 and 7db. The conditions applicable to protective [illegible] are formulated; they must attenuate a radiation energy > 2[illegible] - 30db, [illegible] rim with an attenuation of 2[illegible] [illegible] are a good

N.M.

[Abstracter's note: Complete translation.]

KNORRE, I. A.

Dissertation: "The Role of Function in the Growth of Regenerative Processes of Kidny Tissue of Some Vertebrates." Cand Biol Sci, Inst of Animal Morphology imeni A. N. Severtsov, Acad sci USSR. (Vechernyaya Moskva--Moscow, 20 Apr 54)

SO: SUM 243, 19 Oct 1954

SAKHAROV, V., inshener; SMIRNOV, L., inshener; ZELENEVSKIY, V., inshener; KARAGODIN, V., inshener; KNORRE, V., inshener; LEBEDEV, N., inshener; AKSEL'ROD, L., inshener [Revised by]; STRAMENTOV, A.Ye., professor, doktor tekhnicheskikh nauk [author]; BARKOV, V.F., dotsent, kandidat tekhnicheskikh nauk [redaktor].

Review of A.E.Stramentov's book "City Roads." V.Sakharov, L.Smirnov, V.Zelenevskii, V.Karagodin, V.Knorre, N.Lebedev, L.Aksel'rod. Gor.khoz. Mosk. 25 no.9:34-35 S '51. (MLRA 6:11)

(Road construction)

KELENEVSKIY, V.A., inzhener; KNOREE, V.E., inzhener.

Experience in the reconstruction of the arterial highways leading out of Moscow. Gor.khoz.Mosk. 28 no.1:18-21 Ja '54. (MLRA 7:2)
(Moscow--Road construction) (Road construction--Moscow)

KNORRE, V.E.

SMIRNOV, L.N., inzhener; KNORRE, V.E., inzhener.

Construction of concrete roads in the city. Gor. khoz. Mosk. 30 no.8:22-27 Ag '56. (MLRA 9:10)

(Road construction)

TRYUTSKIY, I.I., insh.; KORNYAKOV, V.T., insh.; MAYDEL', V.O., kand. tekhn.nauk; KHOKHR, V.B., insh.; PIMASHIN, V.N., insh.

Prestressed concrete road pavements. Gor.khoz.Mosk. 33 no.4:27-32 Ap '59. (MIRA 12:6)

(Pavements, Concrete)

KHOKHR, V.N., insh.; LIKHACHEV, A.S., insh.; LUNKEVICH, M.V., insh.; MURAV'YEV, I.M., insh.; FILIMONOV, V.A., insh.

Public utilities and communications in a satellite city near Moscow. Gor.khoz.Mosk. 34 no.4:10-13 Ap '60. (MIRA 13:8)

(Kryukovo--City planning)
(Kryukovo--Sewerage)

KHOPRE, V.E., insh.

Transverse profiles of streets. Gor.khoz.Mosk. 36 no.11:32-33 N '62. (MIRA 15:12)

(Moscow--Streets)

SOSYANTS, V.G., insh.; YUDIN, V.A., kand. tekhn.nauk; KNORRE, V.E., insh.; LANTSBERG, Yu.S., insh.; DAVIDYANTS, N.M., insh.; GEZENTSVEY, L.B., kand. tekhn. nauk; YEGOROV, P.A., insh.; FAYNBERG, E.S., insh.; BAGDASAROV, S.M., insh.; GUREVICH, L.V., kand. tekhn. nauk; CHERNYSHOV, B.G., insh.; GADZHINSKIY, T.G., insh.; ZASOV, I.A., kand. tekhn.nauk; BALOVNEV, V.I., kand. tekhn.nauk; GIBSHMAN, Ye.Ye., prof., red.; DZHUNKOVSKIY, N.N., prof., red.; BOLOTINA, A.V., red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Manual for the design, construction, and maintenance of urban roads, bridges, and hydrotechnical structures] Spravochnik po proektirovaniiu, stroitel'stvu i ekspluatatsii gorodskikh dorog, mostov i gidrotekhnicheskikh sooruzhenii. Red. kol.E.E.Gibshman,N.N.Dzhunkovskii, P.A. Egorov. Moskva, Izd-vo M-va kommun.khoz.RSFSR. Vol.3. [Roads] Dorogi. 1963. 814 p. (MIRA 16:7)
(Roads)

KOZLOV, G.I.; KNORRE, V.G.

Use of a single-pulse shock tube for studying the total kinetics of the thermal decomposition of methane. Inzh.fiz.zhur. 4 no.7:11-18 Jl '61. (MIRA 14:8)

1. Energeticheskiy institut imeni G.M.Krzhizhanovskogo, Moskva.
(Chemical reactions, Rate of) (Shock waves) (Methane)

KNORRE, V.G.

16

- BAZHENOVA, T. V. - "Evaluation of time of relaxation of carbon dioxide dissociation according to shock tube experiments", and "Determination of the dissociated CO_2 flow condition after the normal shock on the rarefaction wave arising while flowing around a protuberant angle"
- GOLDENBERG, S. A. - "Ignition in the flow"
- KNITRIN, Lev Nikolayevich - "Diffusion effect on ignition characteristics of gas mixtures ignited by a heated surface"
- KNORRE, V. G. and KOZLOV, G. I. - "One-impulse shock tube investigation of the kinetic thermal decomposition of methane"
- KOZLOV, G. I. - "Calculation of normal rate of flame propagation of methane and some other hydrocarbons"
- LOBASTOV, U. S., and BAZHENOVA, T. V. - "Research on absorption of radio waves by air following the shock wave"
- NABOKO, I. M. - "The problem of ignition in supersonic gas flow decelerated at an obstacle"
- SALAMANDRA, G. D., and SEVASTYANOVA, I. K. - "Amplification of the shock waves during transition through the flame front", and "Formation of weak shock waves before the flame front and their role in organizing the process of explosive mixture burning in tubes."

Reports to be submitted for the 9th Intl. Symposium on Combustion, Ithaca, New York 27 Aug - 1 Sep 1962.

All affiliated with Inst. of Energetics im. G. M. Krzhizhanovskiy, Moscow.

KOZLOV, G.I.; KHOMIK, V.G.

Investigation of the kinetics of thermal decomposition of ethylene using the single-pulse shock tube method. Kin.i kat. 4 no.2:189-192 Mr-Ap '63. (MIRA 16:5)

1. Energeticheskiy institut imeni G.M.Krzhizhanovskogo AN SSSR.
(Ethylene) (Pyrolysis)

45119

S/170/63/006/002/014/018
B108/B186

11.6100

AUTHORS: Knorre, V. G., Koslov, G. I.

TITLE: Investigation of the kinetics of the thermal decomposition of ethane with a single-pulse shock tube

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 2, 1963, 109-113

TEXT: The experiments were carried out by a method described in IFZh, no. 7, 1961, using a mixture of 5% C_2H_6 and 95% Ar, in a few cases 1% C_2H_6 and 99% Ar. The products of the reaction, which lasts for about 1 msec, were analyzed for C_2H_6, C_2H_4, C_2H_2, H_2, and CH_4. The measurements were made in the temperature range 1160 - 1580°K. The slight dependence of the reaction rate on pressure indicated that the thermal decomposition of ethane is a first-order reaction. The activation energy of the reaction decreases with increasing temperature (equal to temperature behind the reflected shock wave, plus correction for heat of reaction). It also decreases with increasing degree of decomposition. Extrapolating

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Investigation of the kinetics of the ... S/170/63/006/002/014/018
B108/B186

the experimental values of the constant of the decomposition rate to low degrees of decomposition, the authors found the total constant of the decomposition rate: $k_{20} = 9 \cdot 10^{13} \exp(-69000/RT)$. The thermal decomposition is probably a chain process in which free radicals arise in the reaction $C_2H_6 \longrightarrow 2CH_3$. Some of the intermediate products can act as inhibitors of the reaction. There are 3 figures and 1 table.

ASSOCIATION: Energeticheskiy institut imeni G.M. Krzhizhanovskogo, g. Moskva (Power Engineering Institute imeni G.M. Krzhizhanovskiy, Moscow)

SUBMITTED: September 25, 1962

Card 2/2

L 18016-63 BDS/EPA(b)/EPF(c)/EWT(l)/EWT(m)/FCS(k)/ES(v) AFMDC/
AEDC/AFFTC/ASD Pd-4/Pd-4/Pr-4 RM/WW/JW/MAY

ACCESSION NR: AP3006625 S/0076/63/037/009/2082/2086

AUTHOR: Kozlov, G. I.; Knorre, V. G.

TITLE: Kinetic study of the thermal decomposition of methane in a single-impulse shock tube

SOURCE: Zh. fizicheskoy khimii, v. 37, no. 9, 1963, 2082-2086

TOPIC TAGS: methane, methane decomposition, thermal decomposition, decomposition, reaction kinetics, shock wave, combustion, shock tube

ABSTRACT: The thermal decomposition of methane in shock waves has been studied kinetically with two argon-methane mixtures (2% and 10% methane). The experiments were conducted in a shock tube; incident shock wave Mach numbers were varied from 2.82 to 3.33 to generate gas temperatures behind the reflected shock wave (T_5) ranging from 1670 to 2090K. T_5 was calculated with allowance for temperature dependence of the specific heat of methane; full vibrational relaxation and the absence of chemical reactions were

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L 19016-63

ACCESSION NR: AP3006625

assumed. The reaction temperature (T_r) was calculated from T_s by correcting for the reaction heat, determined from the product composition. The reaction products were analyzed for methane, ethane, ethylene, acetylene, and hydrogen. Overall rate constants were obtained from a total of 19 experimental runs. Experiments with a 10% CH_4-90% Ar mixture, conducted at identical M but at reaction pressures ranging from 2 to 8 atm, showed that pressure does not substantially affect the methane decomposition rate, proving that the decomposition is a first-order process. Other experiments with a methane-argon mixture to which hydrogen, ethane, ethylene, or acetylene were added showed that the presence of these gases does not affect the decomposition, a fact which suggests that the reaction chain is of short length. The rate constant for methane decomposition at 1000—2000K obeys the equation:

$$k_1 = 8 \times 10^{13} e^{-93000/RT} sec^{-1}.$$

Analysis of the partial reactions showed further that the reaction $CH_4 \rightarrow CH_2 + H_2$ is the rate-controlling step in the decomposition.

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ACCESSION NR: AP3006625 3

The activation energy of 93 ± 4 kcal/mol and the rate constants determined in the experiments are in good agreement with earlier results. "In conclusion the authors express their gratitude to Corr. member AN SSSR L. M. Khitrin and Corr. member AN SSSR Z. F. Chukhanov for their continuous interest in the work and their useful suggestions." Orig. art. has: 9 formulas, 2 figures, and 1 table.

ASSOCIATION: Energeticheskiy institut im. G. M. Krzhizhanovskogo (Power Engineering Institute)

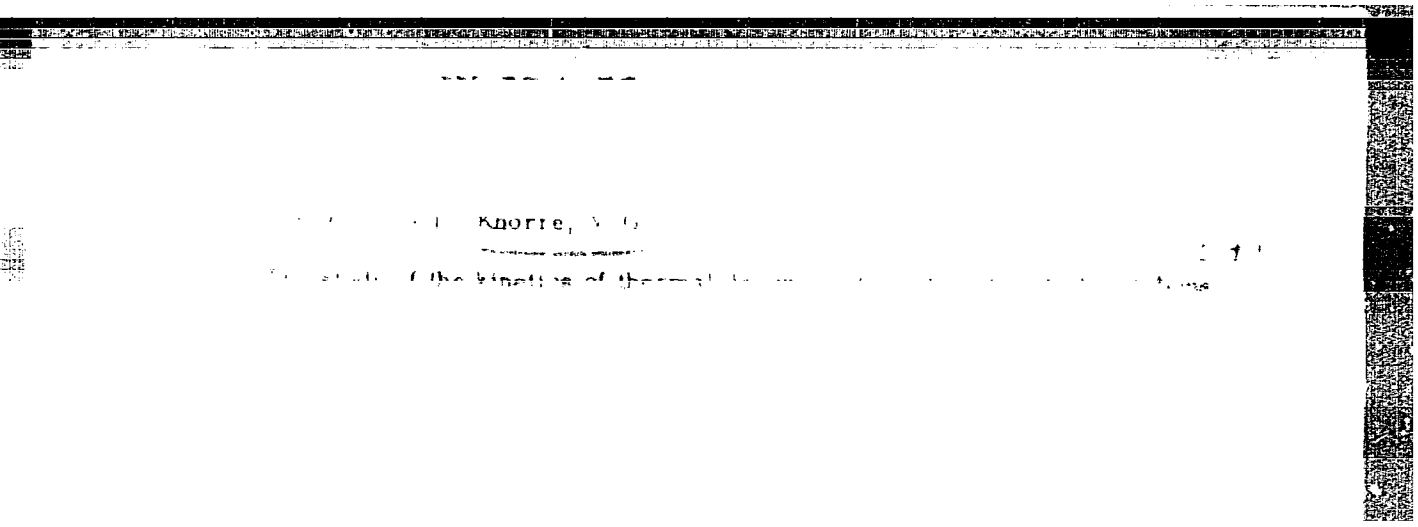
SUBMITTED: 22Oct62 DATE ACQ: 30Sep63 ENCL: 00

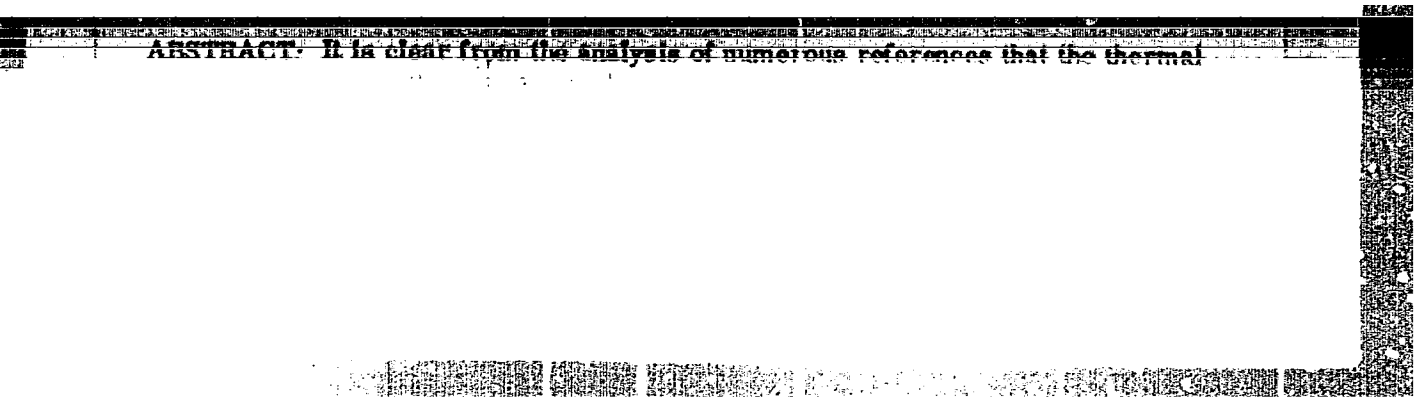
SUB CODE: PR, AS NO REF SOV: 003 OTHER: 005

Card 3/3

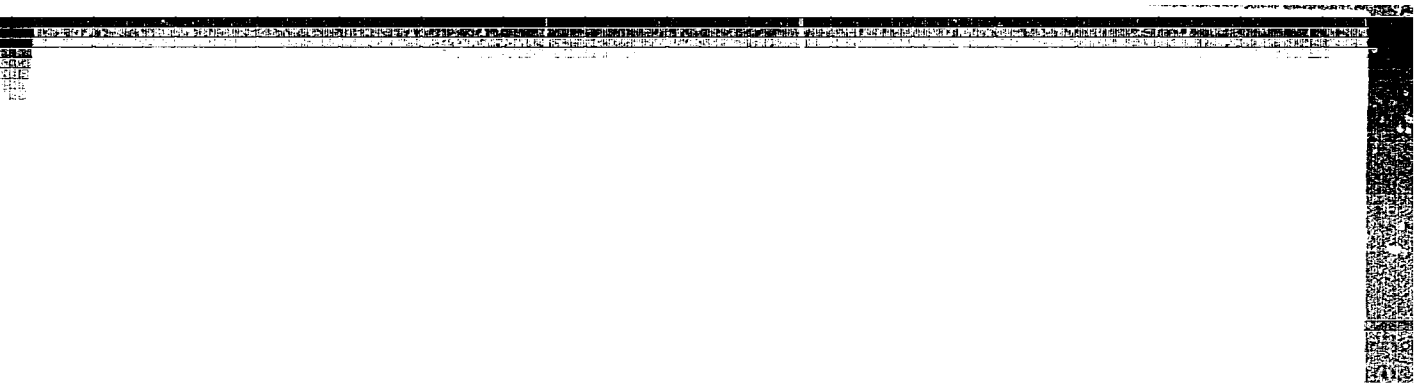
KOZLOV, G.I.; KNORRS, V.G.

Laws governing the formation of acetylene in the thermal separation of methane. Gaz. prom. 8 no.1:[illegible] '63) (MIRA 17:7)





ABSTRACT: It is clear from the analysis of numerous references that the thermal



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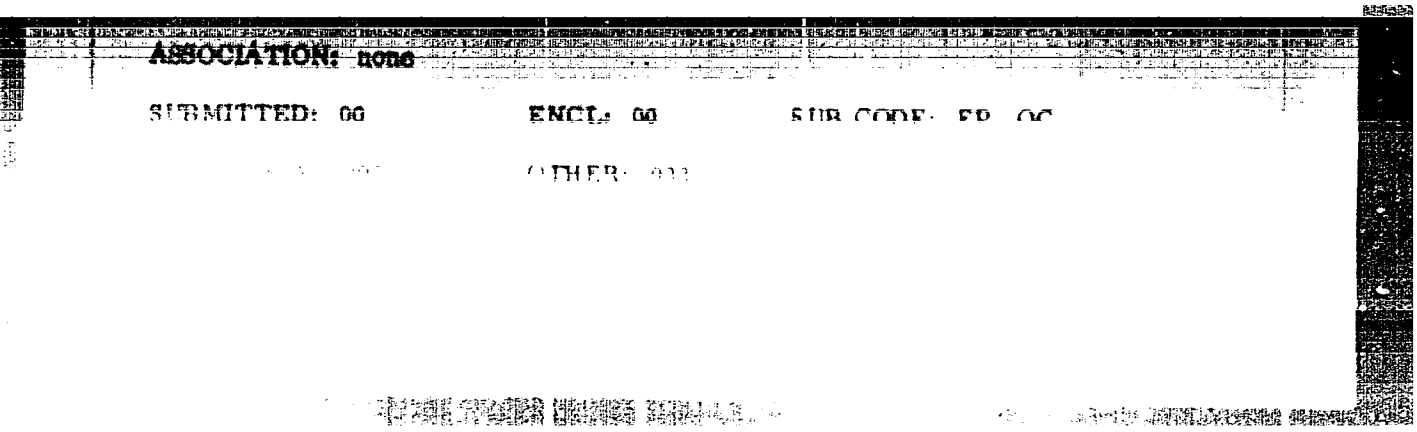

KNORRE, V.G.; KOZLOV, G.I.

Kinetics and mechanism of the thermal decomposition of ethane.
Zhur.fiz.khim. 38 no.11:2633-2639 N '64.
(MIRA 18:2)

1. Energeticheskiy institut imeni Krzhizhanovskogo AN SSSR, Moskva.

KOZLOV, G.I.; KNORRE, V.G.

Using the method of single-pulse shock tubes in studying the thermal decomposition of some hydrocarbons. Izvest. vuzov. topl., ser. mash. i gaza no. 5:197-271 '64 (MIRA 1962)

ALAD'YEV, I.T.; ALEKSANDROV, B.K.; BAUM, V.A.; GOLOVINA, Ye.S.; GOL'DENBERG, S.A.; ZHIMERIN, D.G.; ZAKHARIN, A.G.; IYEVLEV, V.N.; KNORRE, V.G.; KOZLOV, G.I.; LEONT'YEVA, Z.I.; MARKOVICH, I.M.; MEYEROVICH, E.A.; MIKHNEVICH, G.V.; POPKOV, Z.I.; POPOV, V.A.; PREDVODITELEV, A.S.; PYATNITSKIY, L.N.; STYRIKOVICH, M.A.; TOLSTOV, Yu.G.; TSUKHANOVA, O.A.; CHUKHANOV, Z.F.; SHEYNDLIN, A.Ye.

Lev Nikolaevich Khitrin, 1907-1965; obituary. Izv. AN SSSR. Energ. i transp. no.2:159-160 Mr-Ap '65. (MIRA 18:6)

L 24077-66 EWT(1)/EWP(m)/EWT(m)/EWA(d)/T/EWA(h)/EWA(1) IJP(c)/AT/JW/JWD/WE/JT 18C

ACC NR: AP6014966 SOURCE CODE: UR/0281/65/000/002/0158/0159

AUTHOR: Alad'yev, I. T.; Aleksandrov, B. K.; Baum, V. A.; Golovina, Ye. S.; Gol'denberg, S. A.; Zhimerin, D. G.; Zakharin, A. G.; Izyumov, V. N.; Knorre, G. F.; Kirpichev, G. V.; Kozlov, G. I.; Leont'yeva, Z. I.; Markovich, I. M.; Meyerovich, E. A.; Popkov, V. I.; Popov, V. A.; Predvoditelev, A. S.; Pyatnitskiy, L. N.; Styrikovich, M. A.; Tolstoy, Yu. G.; Tsukhanova, O. A.; Chukhanov, Z. F.; Sheyndlin, A. Ye. 125 120 B

ORG: none

TITLE: Lev Nikolayevich Khitrin

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 2, 1965, 158-159

TOPIC TAGS: academic personnel, physics personnel, combustion, carbon, high temperature research, plasma beam, fuel

ABSTRACT: Professor L. N. Khitrin, Corresponding Member, Academy of Sciences USSR, State Price Laureate, and Doctor of Engineering Sciences, died after a short but severe illness at the age of 58. He was well known here and abroad as an outstanding scientist and specialist in the field of combustion theory and the development of methods for speeding up burning of fuel. He began his scientific work at the All-Union Heat Engineering Institute after graduating from the physics department of Moscow University in 1930. His early work was on the propagation of flames in gases, and on heterogeneous combustion. In 1948 he defended his Doctor's Dissertation on the theory of combustion of car- 2

UDC: 621.036:92

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L 24077-66

ACC NR. AP6011966

bon. His monograph "Combustion of Carbon" was awarded the State Prize in 1950. In 1951 he became the permanent director of the laboratory for the intensification of combustion processes of the G. M. Krzhizhanovskiy Power Institute. He was elected a corresponding member of the Academy of Sciences USSR in 1953. He headed the All Union Advisory Board on combustion, represented Soviet science at International Symposia, and was a member of the International Institute of combustion. For a number of years, he directed the Moscow general seminar on combustion, and took an active part in the work of the Scientific Council of the Academy of Sciences USSR, on high temperature heat physics, and of the scientific council on the comprehensive utilization of fuel. He devoted a large amount of attention to teaching work. He directed the Combustion Division of the Physics Department of Moscow State University. His monograph "Physics of Combustion and Explosion" (1957) is a basic text for students in this field. Three Doctor's Dissertations and fifteen Candidate Dissertations were defended under his direction. In the last years of his life he directed work on methods for comprehensive utilization of fuel at power stations so as to obtain valuable products from the mineral part of the fuel, as well as work on the physical chemical processes in a plasma stream, and the mechanism of interaction between carbon and gases. He was the author of more than 60 scientific works, for which he was awarded the Order of the Red Banner of Labor and medals. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 21, 20 / SUBM DATE: none

Card 2/2 nle

KNORRE, V.L.; EMANUEL', N.M.

Kinetics of 1,2-diphenylethane oxidation with potassium permanganate in aqueous solutions. Kin.i kat. 2 no.6:816-820 N-D '61. (MIRA 14:12)

1. Institut khimicheskoy fiziki AN SSSR.
(Ethane)
(Potassium permanganate)

KNORRE, V.L.

Decoxybenzoin as a molecular intermediate product of the oxidation of 1,2-diphenylethane with potassium permanganate. Kin. i kat. 4 no.6:815-822 N-D '63. (MIRA 17:1)

1. Institut khimicheskoy fiziki AN SSSR.

SALOANIK, R.I.; KNORRE, V.L.

Effect of deuterium substitution on the thermal helix-coil transition in DNA. Biofizika 9 no.2:160-161 '64. (MIRA 17:12)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

NABERUKHIN, Yu.I.; MOLIN, Yu.N.; KNORRE, V.L.; RYKOVA, V.I.; SALGANIK, R.I.

Causes of signal broadening of water proton resonance in DNA solutions. Biofizika 10 no.3:408-412 '65. (MIRA 18:10)

1. Institut khimicheskoy kinetiki i goreniya, Novosibirsk i Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk. Submitted Dec. 1, 1964.

KNORRE, El. [Knorre, Yel.], nauchen komentator

Factory for tagged atoms. Nauka i tekh mladezh 16 no.11: 21-22 '64.

1. Academy of Pedagogic Sciences of the R.S.F.S.R.

KNORRE, YE. P., and YE. K. KNORRE

Osobennosti termoreguhatsii u losia. (Zoologicheskii zhurnal, 1953. t. 32, vyp. 1, p. 149-49, illus., diagrs.) Title tr.: Peculiarities of thermoregulation in the elk.

Contains a study of diurnal and seasonal fluctuations of temperature in 24 domesticated elks. Both diurnal and seasonal fluctuations were directly related to the environmental temperatures, but control of normal body functions was much better during severe cold than in the summer. The qualities of elk as prospective work- or riding animals, are also analyzed. The experiments were carried out on the Pechora-Ilych State Preserve in 1950 and 1951.
Copy seen: DLC; MH-Z.

[redacted], Ye.P.; [redacted], Ye.K.

Regularities of growth and seasonal changes in the live weight of elk [with English summary in insert]. Zool.zhur. 35 no.8:1229-1237 Ag '56. (MLRA 9:10)
(Elk)

ANDRE, Ye.

SUKACHOV-TYAN-SHANSKIY, O.; ANDRE, Ye.

Concerning A.I. Likhachev's article "Adaptive morphofunctional features of the locomotor organs of elks" [with summary in English]. Zool. zhur. 36 no.6:946 Je '57. (MLRA 10:8)
(Elk) (Animal locomotion)

KHOKHRE, Ye., kand. biol. nauk

[redacted]

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(Pechoro-Ilych Preserve)

KNORRE, Ye.P.; KNORRE, Ye.K.

Materials for studying some physiological characteristics of moose. Trudy Pech.-Il.gos.zap. no.7:133-167 '59. (MIRA 15:5)
(Moose)

KNORRE, Ye.P.

30105. KNORRE, E. P., *and* K. KNORRE. Osobennosti termoregulâtsii u losâ. (*Zoologicheskii zhurnal*, 1953. t. 32, vyp. 1, p. 140–49, illus., diagrs.) *Title tr.*: Peculiarities of thermoregulation in the elk.

Contains a study of diurnal and seasonal fluctuations of temperature in 24 domesticated elks. Both diurnal and seasonal fluctuations were directly related to the environmental temperatures, but control of normal body functions was much better during severe cold than in the summer. The qualities of elk as prospective work- or riding animals, are also analyzed. The experiments were carried out on the Pechora-Ilych State Preserve in 1950 and 1951.

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KHOREN, Ye.P.; KHOREN, Ye.K.

Regularities of growth and seasonal changes in the live weight of elk [with English summary in insert]. Zool.zhur. 35 no.8:1229-1237 Ag '56. (MIRA 9:10)
(Elk)

KHORRE, Ye.P.

Materials on the biology and importance of the deer botfly Cephenomyia ulrichi Br. [with summary in English]. Zool. zhur. 36 no.4:569-574 Ap '57. (MIRA 10:6)

1. Pechoro-Ilychskiy gosudarstvennyy zapovednik.
(Pechora-Ilych State Preserve--Botflies)
(Parasites--Elk)

KHOKHR, Ye.P.

Seasonal characteristics of the forage conditions of elk in the Pechora taiga. Soob.Inst.lesa no.13:70-73 '59.
(MIRA 13:2)

1. Pechoro-Ilychskiy gosudarstvennyy zapovednik.
(Pechoro-Ilych Preserve--Elk)

KHORRE, Ya.P., kand.biologicheskikh nauk

Conservation of moose and organization of its economic utilization.
Okhr. prir. na Urale no.1:93-99 '60. (MIRA 14:4)
(Pechora Valley--Moose)

KNORRE, Ye.P.; SHUBIN, G.G.

Determining the age of moose. Trudy Pech.-Il.gos.zap. no.7:123-132 '59. (MIRA 15:5)
(Moose--Age)

KNORRE, Ye.P.; KNORRE, Ye.K.

Materials for studying some physiological characteristics of moose.
Trudy Pech.-Il.gos.zap. no.7:133-167 '59. (MIRA 15:5)
(Moose)

KNORRE, Ye.P.

Ecology of moose. Trudy Pech.-Il.gos.zap. no.7:5-122 '59.
(MIRA 15:5)
(Moose)

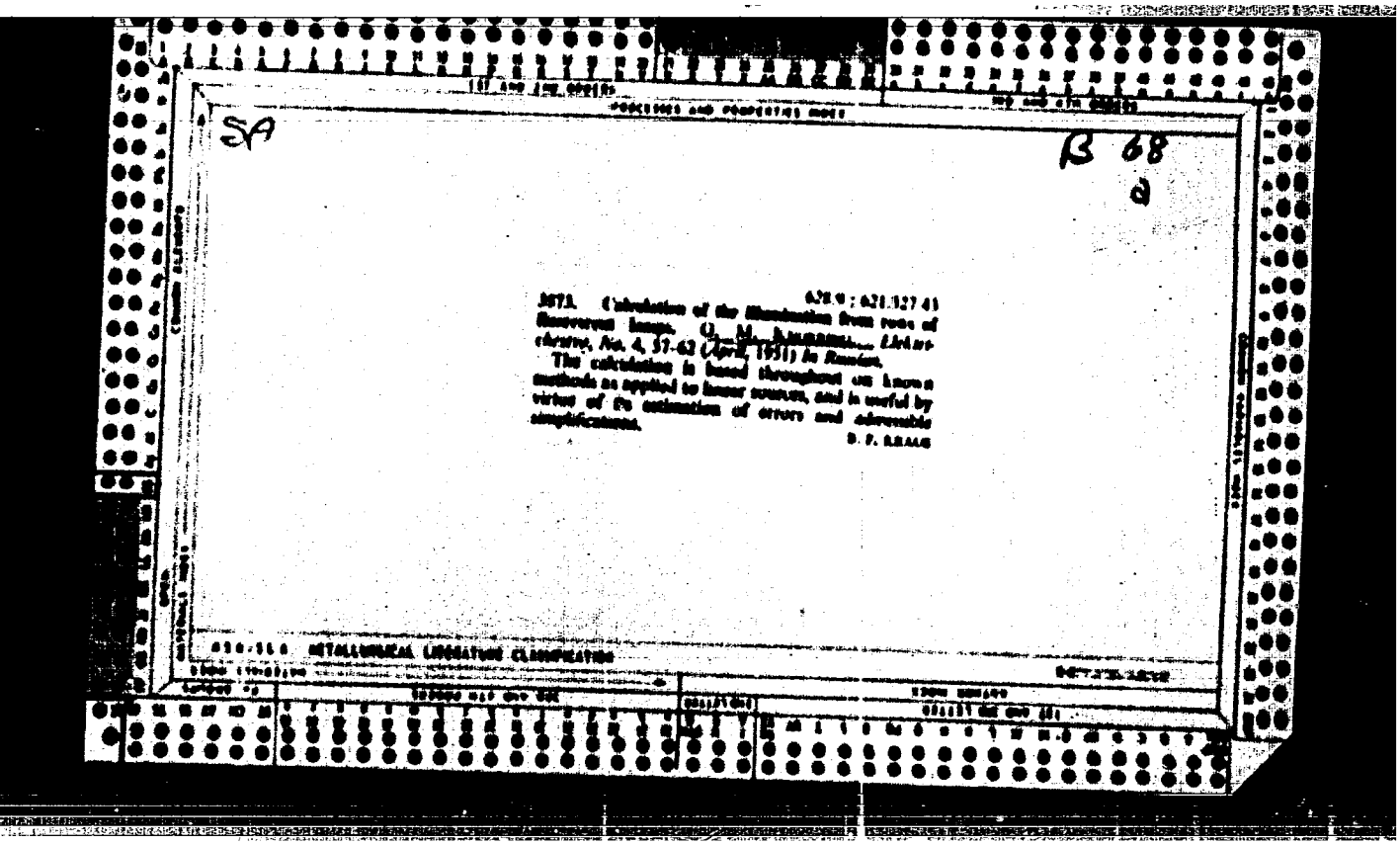
BOGAN, F.Ye.; LANINA, L.B.; MEDAL'SKIY, K.O.; SOKOL'SKIY, S.M.; YAZAN, Yu.P.; KNORRE, Ye.P.; SOLOV'YEVA, M.Ye., red.; OPLESNIN, I.I., tekhn. red.

[Reservation in Pechora; popular science sketch] Zapovednik na Pechore; nauchno-populiarnyi ocherk. [By] F.E. Bogan i dr. Syktyvkar, Komi knizhnoe izd-vo, 1963. 114 p. (MIRA 16:10)

(Pechora Valley--National parks and reserves)

KNORRING, G. M.

"Planning of Electric Illumination," Gosenergoizdat, 416 pp, 1950.



KHORRING, O.M.; KHARCHEV, M.K.

[Electric networks in shops. Problems of installation and operation] Tekhnovye elektricheskie seti; voprosy postroeniia i vypolneniia. Leningrad, Gos. energ. izd-vo, 1952. 133 p. (MLRA 6:5)
(Electric power plants)

Knorring, G. M.

Reference book for planning electric lighting. Izd. 3., perer. Leningrad, Gos. energ. izd-vo, 1952. 168 p. (54-18397)

TK4164.K5 1952

VOLOTSKOY, N.V., kandidat tekhnicheskikh nauk; KHOKRINO, G.M., inshener.

Conference on lighting installations. From the Institute of Automatic and Remote Control of the Academy of Sciences of the U.S.S.R. Elektrichestvo no.8:92-93 Ag '53. (MLRA 6:8)

(Electric lighting) (Automatic control) (Remote control)

KNORRING, G. M.

AID P - 531

Subject : USSR/Engineering

Card 1/1 Pub. 93 - 6/9

Author : Knorring, G. M., Kand. of Tech. Sci.

Title : Luminescent lamps and fixtures for them

Periodical : Sbor. mat. o nov. tekh. v stroi., 7, 19-24, 1954

Abstract : Fixtures for all kinds of luminescent lamps used for different purposes are proposed. They were designed by the Main Administration for Electrical Installation (Glavelekromontazh) of the Ministry of Construction. 6 dingrams.

Institution : None

Submitted : No date

KNORRING, GLEB MIKHAYLOVICH

VOLOPSKOY, Nikolay Vasil'yevich; ZIL'BER, David Aleksandrovich; KNORRING, Gleb Mikhaylovich; LAZAREV,D.N., redaktor; ZAKHAROV,P.P., redaktor; ZHENODINA,A.A., tekhnicheskiy redaktor

[Fluorescent lighting] Liuminestsentnoe osveshchenie. Moskva, Gos. energ. izd-vo, 1955. 304 p. (MLRA 9:2)
(Electric lighting, Fluorescent)

KHORKIN, G.M., kandidat tekhnicheskikh nauk; RYABOV, M.S., kandidat tekhnicheskikh nauk

Basic requirements from the illuminating engineering industry. Svetotekhnika 1 no.1:24 F '55. (MLRA 8:9)

1. Tyazhpromelektroproyekt
(Electric lighting)

KHORRING,G.M., kandidat tekhnicheskikh nauk

Use of fluorescent lighting. Svetotekhnika 1 no.3:16-19 Je'55.
(MLRA 8:10)

1. Tyazhpromelektroproyekt
(Fluorescent lighting)

Main Electrical Planning Admin of Heavy Ind.

KHORRING, O.M., kandidat tekhnicheskikh nauk; GLAUBERZON, Ye.M., inzhener

Fluorescent lighting in sewing shops of a clothing factory. Svetotekhnika 1 no.5:17-20 O'55. (MLRA 8:12)
(Factories--Lighting) (Lighting, Fluorescent)

KNORRING, G.M.

AID P - 2177

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 19/22

Authors : Zil'ber, D. A., Prof., and Knorring, G. M., Kand. of Tech. Sci.

Title : Ya. E. Neyshtadt. New Sources of Light and their Effect on Man. Moscow, 1952. 170 pp. (Book Review)

Periodical : Gig. i san., 4, 57-60, Ap 1955

Abstract : An unfavorable review of the above book. Table

Institution : None

Submitted : No date

KNORRING, G. M.

AID P - 2973

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 23/35

Author : Knorring, G. M., Kand. of Tech. Sci.

Title : A diagram of lamp control from two places

Periodical : Energetik, 5, 28, My 1955

Abstract : The author presents a diagram for control from two different places. One connection diagram.

Institution : None

Submitted : No date

KHOKRIN, Oleh Mikhaylovich; SUVOROV, Ye.D., redaktor; VORONETSKAYA, L.V., tekhnicheskiy redaktor

[Handbook for planning electric lighting] Spravochnik dlia proektirovaniia elektricheskogo osveshcheniia. Izd. 4-oe, perer. Moskva, Gos. energ. izd-vo, 1956. 219 p. (MLRA 9:10)
(Electric lighting)

KNORRING, G.M.

3226. THE LIGHTING OF STATIONS ON THE LENINGRAD METROPOLITAN (RAILWAY). 628.971(47)

G.M.Knorring and E.A.Danilov

Svetotekhnika, 1956, No. 1, 3-11. In Russian.

The first section of the Leningrad Underground opened towards the end of 1955 1, 11 km long and has 8 stations each of which has different architectural treatment. Each station is illustrated and the method of lighting is described briefly and critically. General conclusions are drawn about artistic architectural lighting.

B. R. Stoker

Tyazhpromelektroproyekt

KHORRING, G.M., kandidat tekhnicheskikh nauk.

Glare of fluorescent lamps. Svetotekhnika 2 no.4:25-26 Jl '56.
(MLRA 9:10)

1.Tyazhpromelektroproyekt.
(Fluorescent lamps)

KHORINO, O.M., kandidat tekhnicheskikh nauk.

Calculation of lighting networks according to voltage loss. Elektrichestvo no.10:81-82 O '56. (MLRA 9:11)

1. Tyazhpromelektroproyekt.
(Electric lighting)

KHOSKIND, G.M., kandidat tekhnicheskikh nauk.

The economy of mirror lamps with a high intensity light distribution. Svetotekhnika 2 no.1:24-25 Ja '56. (MLRA 9:3)

1. Tyazhpromelektroproyekt.
(Electric light fixtures)

KNORRING, G.M., kandidat tekhnicheskikh nauk; BELYAKOV, A.A.; KREMLIN'SH, [redacted] E.K., inzhener; SHERMAZANYAN, Ya.T.; LEYBOVICH, D.S.

Use of PPv wires. Prom.energ. 11 no.12:22-25 D '56. (MIRA 10:1)

1. Gosudarstvennyy proyektnyy institut Tyazhpromelektroproyekt (for Knorring). 2. Gor'kovskoye otdeleniye Gosudarstvennogo proyektnogo instituta Elektroproyekt (for Belyakov). 3. Energosbyt Latvenergo (for Kreslin'sh). 4. Respublikanskiy proyektnyy institut, Yerevan (for Shermazanyan). 5. Trest "Moselektromontazh-2" (for Leybovich).
(Electric wire, Insulated)

KHOKRING, G.M., kandidat tekhnicheskikh nauk.

The forthcoming review of illumination norms. Svetotekhnika 3 no.4: 20-23 Ap'57 (MLRA 10:4)

1. Tyazhpromelektroproyekt.
(Lighting)

KHORRINO, O.N., kandidat tekhnicheskikh nauk.

Efficient design for luminaires used in lighting areas with a difficult medium. Svetotekhnika 3 no.7:10-12 Jl '57. (MLRA 10:8)

1.Gosudarstvennyy politekhnicheskiy institut "Tyazhpromelektroproyekt".
(Electric lighting)

KHOKHRIN, G.M., kandidat tekhnicheskikh nauk.

Reflector lamps and their use. Prom. energ. 12 no.2:1-5 F '57.
(MLRA 10:3)

1. Tyazhpromelektroproyekt.
(Electric lamps)

BELOV, N.N.; BOL'SHAM, Ya.M.; GORDEYEV, A.N.; GRACHEV, V.A.; YERMILOV, A.A.; ZALESSKIY, A.M.; KIZEVETTER, Ye.N.; KNORRING, G.M.; KONSTANTINOV, B.A.; KOPYTOV, N.V.; LEVIT, G.O.; MILLER, G.P.; NAYFEL'D, M.P.; PRIYTSEV, A.A.; SERBINOVSKIY, G.V.; SOKOLOV, B.A.; STASILOYTS, A.B.; TAYTS, A.A.; KHRAMUSHIN, A.M.

Mikhail Konstantinovich Kharchev; obituary. Belov and others. Prom. energ. 12 no.12:33 D '57. (MIRA 10:12)
(Kharchev, Mikhail Konstantinovich, 1896-1957)

8(4) PHASE I BOOK EXPLOITATION SOV/1419

Knorring, Gleb Mikhaylovich

Proyektirovaniye osvetitel'nykh ustanovok (Design of Lighting Installations) Moscow, Gosenergoizdat, 1958. 268 p. 21,000 copies printed.

Ed.: Suvorov, Ye. D.; Tech. Ed.: Zabrodina, A.A.

PURPOSE: This book is intended for engineers and technicians engaged in planning and designing electric lighting installations. It may also be useful to engineers and technicians responsible for the operation of the lighting systems of industrial and public establishments.

COVERAGE: The author discusses the problems of illumination engineering and electrical engineering involved in planning and designing lighting installations. Methods of engineering calculation employed in the design of lighting systems are also presented. The author describes the luminous properties of

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various substances, types of light sources, the characteristics of luminaires, and lighting systems and networks, including the selection of proper wiring according to its mechanical strength and the current load. The last chapter covers the illumination of various premises, plant sites, roads, etc. The author thanks the reviewer, M.S. Ryabov, Candidate of Technical Sciences, and the editor, Ye.D. Suvorov, Engineer. There are 8 references, all Soviet.

TABLE OF CONTENTS:

KHORRING, O.M., kand.tekhn.nauk.; RYABOV, N.S., kand.tekhn.nauk.

[illegible] lighting installations. Svetotekhnika 4 no.2:1-6 F '58. (MIRA 11:1)

1.Gosudarstvennyy proyektnyy institut "Tyazhpromelektroproyekt."
(Electric lighting)

KHORRING, O.M., kand. tekhn. nauk.

Method of planning and selecting floodlighting components. Svetotekhnika 4 no.3:34-40 Mr '58. (MIRA 11:2)

1. Gosudarstvennyy proyektnyy institut "Tyazhpromelektroproyekt."
(Electric lighting)

BEL'KIND, L.D.; KNORRING, G.M.; LEVITIN, I.Ye.; MERKOV, V.V.; RYABOV, M.S.; SOKOLOV, M.V.; TIKHODEYEV, P.M.; SHATELEVICH, A.S.

Aleksandr Anan'evich Trukhanov; on the occasion of the 60th anniversary of his birth. Svet-tekhnika 4 no. 7:28 Jl '58. (MIRA 11:7)

(Trukhanov, Aleksandr Anan'evich, 1898-)

KHOKHLOV, G.M., kand. tekhn. nauk.

Comments of L.A. Raitsel'skii's article. Svetotekhnika 4 no.9: 27-28 S '58. (MIRA 11:8)

1. Gosudarstvennyy proyektnyy institut "Tyazhpromelektroproyekt." (Factories--Lighting)

KHORRIKO, G.M., kand.tekhn.nauk

Lighting of engineering, drafting, and duplicating offices. Svetotekhnika 4 no.11:1-7 N '58. (MIRA 11:11)

1. Gosudarstvennyy proyektnyy institut "Tyazhpromelktroproyekt."
(Electric lighting)

GORSKIY, Lev Ivanovich; VLASOV, V.D., retsenzent; KHOKHLOV, G.M., red.; SOBOLEVA, Ye.M., tekhn.red.

[Electric apparatus and appliances in industrial enterprises] Elektrokonstruktsii promyshlennykh predpriiatii. Moskva, Gos. energ.izd-vo, 1959. 255 p. (MIRA 12:12)
(Electric apparatus and appliances)

KNORRING, O.M., kand. tekhn. nauk.

Problems of designing and installing rational lighting.
Svetotekhnika 5 no.2:26-30 F '59. (MIRA 12:1)

1.Gosudarstvennyy proyektnyy institut "Tyazhpromelektroproyekt."
(Lighting)

TIKHODEYEV, P.M.; FEDOROV, B.P.; VOLOTSKOY, N.V.; TELYAT'YEV, V.V.; ZIL'BER, D.A.; SAPOZHNIKOV, R.A.; SHAYKEVICH, A.S.; KHOKRIN, G.M.; SEREBRYAKOV, V.M.; DADIOMOV, M.S.; LEVIT, G.O.

Professor Viacheslav Vasil'evich Novikov; on his 70th birthday.
Svetotekhnika 5 no.2:30 F '59. (MIRA 12:1)
(Novikov, Viacheslav Vasil'evich, 1888-)

KHORRINO, G.M., kand.tekhn.nauk

Experience in the operation of lighting installations; based on data from questionnaires. Svetotekhnika 5 no.5:25-27 My '59.
(MIRA 12:7)

1. Gosudarstvennyy proyektnyy institut "Tyazhpromelektroproyekt."
(Factories--Lighting)