VOZNESENSKIY, V.D.; MIKHNEVICH, I.P.; NENASHEV, Yu.P.; NILOVA, N.V.

Structural unconformity in Upper Silurian sediments of the Zhaman-Sarysu anticlinorium in central Kazakhstan. Izv. AN Kazakh. SSR. Ser. geol. nauk no.5:55-59 '63. (MIRA 17:1)

1. TSentral'no-Kazakhstanskoye geologicheskoye upravleniye, Karaganda.

Voznesenskiy, V.I.

53-4-9/1o

AUTHORS: Voznesenskiy, V.I., Korotkikh, N.V., Chernetskiy, A.V., Koporskiy A.S.

TITLE: Oscillographical Tubes for Rapidly Occurring Recording Processes (Ostsillograficheskiye trubki dlya zapisi bystroprotekayushchikh protsessov)

PERIODICAL: Uspekhi Fiz. Nauk, 1957, Vol. 62, Nr 4, pp. 497-522 (USSR)

ABSTRACT: The present survey comprises the last decade; it comprises the main methods of oscillographics of processes taking place rapidly and also some characteristic problems on rapidly acting electron-beam tubes (for instance for the production of a thin electron-beam post-acceleration, etc.). The survey is arranged as follows: 1: The methods of velocity oscillography. The deflecting systems, the limitations of the usual deflecting systems for high frequency. 2: The electron beam tubes with deflecting system in form of a line with two conductions. 3: The electron beam tubes for the investigation of phenomena taking place rapidly with high efficiency. 4: Microoscillographical tubes. 5: Tubes with a reflecting system for a travelling wave. 6: The investigation of the ultrashort electronic blobs. 7: The diameter of the spot. 8: The velocity of registration. 9: The dependence of brightness on current density and on the accelerated voltage. 1o: The constrast.

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Oscillographical Tubes for Recording Rapidly Occurring Processes 53-4-9/10

11; Photography. Summarized survey: Up to now the width of the band of the frequencies to be investigated was increased to 10000 megacycles. Tubes with such a band permit the investigation of processes of a duration of 10^{-9} sec. Most of the tubes have a good resolving power. The signal to be resolved must have at least 1 V. The registration velocity of 10^{10} cm/sec obtained for some tubes is in fact a realizable value for serial devices. Frequency distortions in deflecting systems, however, hitherto prevented the sufficiently accurate investigation of those transition processes the spectra of which exceeded 1000 megacycles. At present oscillographical tubes are needed by means of which transition processes of a duration of from 10^{-9} to 5.10^{-11} sec and with amplitudes of some tenths of a volt can be investigated. Accordingly, improvements of the frequency characteristic of the deviations and the resolving power of the oscillographic tubes has to be aimed at when developing new tubes. There are 19 figures, 3 tables and 55 references, 13 of which are Slavic.

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VOZNESENSKIY, V.I.

AUTHORS: Konorskiy, A. S., Chernetskiy, A. V., Korotkikh, N. V., 53-4-6/11
Voznesenskiy, V. I.

TITLE: The Electronic Methods of the Production of Ultrashort Pulses (Elektronnyye metody generatsii sverkhkorotkikh impul'sov).

PERIODICAL: Uspekhi Fizicheskikh Nauk, 1957, Vol. 63, Nr 4, pp. 801-812 (USSR).

ABSTRACT: The present survey is arranged as follows: Introduction, the problems occurring in connection with the production of pulses by electronic methods (destruction of a "packet", excitation of the output device), the pulse generator of the klystron type, a tube with transversal deflection of the beam as generator for very short pulses, the combined generator, a pulse generator with magnetic deceleration; summary: The electron generators have a good future. Their main advantages are simplicity, stable operation, the possibility of producing very short pulses in a wide range of frequency. The fact that a present these devices are only rarely used may be explained by the novelty of the methods of electronic pulse production. They are still not known to a wide circle of specialists. Besides, the generators used at present are mostly of low efficiency and their applicability is limited. However, the development of the methods discussed here as well as of that

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The Electronic Methods of the Production of Ultrashort Pulses. 53-4-6/11

of methods still to come opens up new possibilities for pulse technics.
There are 7 figures, 1 table, and 9 references, 3 of which are Slavic.

AVAILABLE: Library of Congress.

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GEKKER, Ivan Romanovich; YUR'YEV, Valentin Ivanovich; VOZNESENSKIY, V.I., red.; VORONIN, K.P., tekhn. red.

[Submillimeter waves] Submillimetrovye volny. Moskva, Gos. energ.izd-vo, 1961. 63 p. (MIRA 14:12)
(Microwaves) (Radio)

S/725/61/000/003/003/008

AUTHORS: Voznesenskiy, V.I., Chernetskiy, A.V., Serebriyskiy, I.N.

TITLE: The blurring of electron clusters due to Coulomb forces under the compensating effect of an initial velocity modulation.

SOURCE: Nekotoryye voprosy tekhniki fizicheskogo eksperimenta pri issledovanii gazovogo razryada; nauchno-tekhnicheskiy sbornik, no.3. A.V. Chernetskiy & L.G. Lomize, eds. Moscow, Gosatomizdat, 1961, 53-59.

TEXT: This theoretical analysis of the changes occurring in short freely-moving electron clusters - whether monochromatic or initially velocity-scattered - is of value in the generation of electron clusters for the creation of ultra-short (10^{-9} to 10^{-12} sec) pulse voltages with great iteration frequency, attaining hundreds of mcps, which is useful in the generation of electromagnetic waves, in accelerator design, etc. It is important to know how rapidly the electron clusters will blur under the effect of their own space charge and to try to find a method for their conservation over a relatively long distance. Short-wave generation by means of the Vavilov-Cherenkov effect and transient or bremsstrahlen radiation (for non-relativistic beams) can produce a noticeable effect only if this problem is overcome. The Coulomb-force-produced blurring of electron clusters was investigated by

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S/725/61/000/003/003/008

The blurring of electron clusters...

G.I.Zhileyko (ZhTF, v.31, no.4, 1961, 508) for spherically shaped clusters, and the repulsive forces were found to be exceedingly significant for small cluster sizes. The present study examines the blurring of cylindrically-shaped clusters; in this case the repulsive forces are found to be not overly great and are, in any event, finite even for infinitely small longitudinal cluster dimensions (for a given transverse size). The change of the spatial density of the cluster in the course of its motion is accounted for approximately. It is shown that the shape of a cluster may be regarded as invariable, so long as the longitudinal cluster dimension is considerably smaller than the transverse dimensions. For short cluster "durations" (ratios of the longitudinal dimension by its mean velocity), 10^{-11} to 10^{-12} sec, this requirement is satisfied (e.g., if $v = 5 \cdot 10^9$ cm/sec, the cluster length is $5 \cdot 10^{-2}$ to $5 \cdot 10^{-3}$ cm with a diameter of a few mm). The influence of the metallic or dielectric walls is disregarded. This is justified for most practical applications, namely, in linear accelerators, electronic ultra-short pulse generators, etc., where the tube diameter is fairly large. The calculation comprises the determination of the longitudinal size of a cluster as a function of the space-charge density (assumed to be uniformly distributed over the cluster), the time, and the magnitude of the initial velocity scatter; the radial spread is assumed to be counteracted by a magnetic field. Cylindrical coordinates are used, with the origin at the center of the cluster. The calculation (and graphic representation) of the timewise change of the longitudinal dimensions of the cluster shows that, when the initial relative velocity is

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nonzero, the cluster initially shrinks to a certain minimal length and then begins to blur out. This approximate calculation shows that a cylindrical cluster of practically very small dimensions is, in principle, achievable, since the repulsive force remains finite. A comparison of the cases in which the initial relative velocity is zero and nonzero, respectively, shows that an initial velocity modulation serves to lengthen the distance over which the cluster is conserved. There are 2 figures and 6 references, including 3 recent Soviet references (Koporskiy, A.S., et al., Uspekhi fiz. nauk, 1957, 601; Zhileyko, G.I., Cand. Diss., In-t Radioelektr., AN SSSR, 1959, and ZhTF, v.31, no.4, 1961, 508) and 3 earlier English-language references (Enslein, Rev. Sci. Instrum., v.25, 1954, 574; Hastid, D., Phis. (sic!) Soc., Proc., v.60, 1948, 340; and Grant, E., et al., J. Appl. Phys., v.25, 1954, 574).

ASSOCIATION: None given.

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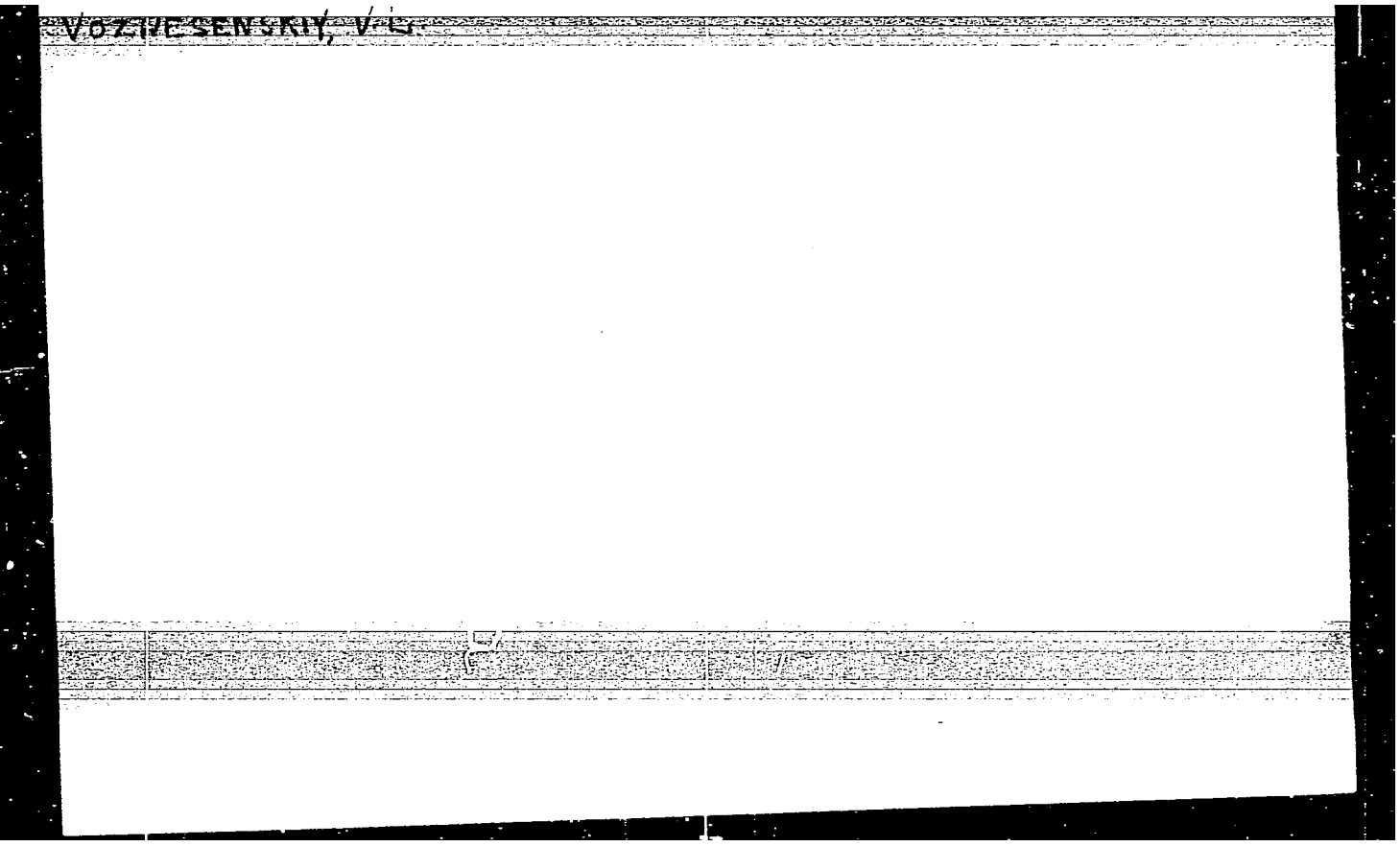
VOZNESENSKIY, V.L.

VOZNESENSKIY, V. L..and I.YA. Bobrov.....Vladimirskii Krai; obzor narodnogo khoziaistva Vladimirskoi gub. Vladimir, 1928. 147 p. (Vladimirskii gubernskii otdel narodnogo obrazovaniia.)
"Spisok ispol'zovannoi literatury": p. (143)

DLC: DK511.V6V69

SO: LC, Soviet Geography, Part II, 1951/Unclassified



VOZNESENSKIY, V.L., NOSENKO, B.M., STARODUBTSEV, S.V.

"Reaction Depth of an Inonic Stream on a Crystal" Dokl. AN UZ SSR, No 8, 1954, 9-14

A method of determining the penetration depth of an ionic stream was suggested by using the properties of weakened luninescence in the cry sta llophor layer deterioated by ionic penetration. Zn_2SiO_4 Mn was studied. The initial behavior of luninescence curves under electron excitation shows that no sharp boundary of the deterioration layer exists. The relation of penetration depth to ion energy is nearly linear and only slightly depends on the type of ions. (RZhFiz, No 11, 1955)

VOZNESENSKIY, V.L.

ZALENSKIY, O.V.; SEMIKHATOVA, O.A.; VOZNESENSKIY, V.L.; KOMOVALOV, I.N., redaktor; YAKOVLEVA, V.M., redaktor; KARYAKIN, A.V., redaktor; AKONS, R.A., tekhnicheskiy redaktor.

[Using radioactive carbon C^{14} in the study of photosynthesis] Metody primeneniia radioaktovnogo ugleroda C^{14} dlia izucheniia fotosinteza. Moskva, Izd-vo Akademii nauk SSSR, 1955. 88 p. (MLRA 8:11)
(Photosynthesis)
(Carbon--isotopes)

VOZNESENSKIY, V. L.

Temperature influence on the metabolism of carbon-14 absorbed in the process of photosynthesis. O. V. Zalet-
[illegible] V. L. Voznesenskii, M. M. Ponomareva, and T. P.
[illegible] Plant Bad. Sta., Acad. Sci. Tadzhik. S.S.R.).
[illegible] 40, 112-58(1955). — Barley seedlings exposed
[illegible] assimilated C released the C at
[illegible] during the first hrs. after
[illegible] of photosynthesis. With
time, the speed of C assimilation slowed down. The quantity of C in the root system increased rapidly during the first hrs. after photosynthesis ceased, and after that the [illegible] leveled off to a const. Lowered temps. at the [illegible] photosynthetic tests retarded the utiliza-
[illegible] H_2O and ale.-sol. compds.
[illegible] the leaves of those
[illegible] alk. fraction, and
[illegible] At the same time lowered temps. activate
[illegible] translocates C from the leaves into the
[illegible] accumulation of
[illegible] S. Joffe

VOZNESENSKIY, V.L.

Quantitative measurements on the intensity of photosynthesis with the aid of the radioactive isotope of carbon-14. V. L. Voznesenskii (V. L. Komarov, Botan. Inst., Leningrad). *Botan. Zhur.* 40, 402–8(1955).—Detailed descriptions and photographs are presented of an app. constructed for the detn. of CO_2 absorption in the process of photosynthesis. Results of expts. are discussed at length and a formula is derived for calcg. the intensity of photosynthesis. J. S. Joffe

VOZNESENSKIY, V. L.

ZALENSKIY, O. V., SEMIKHATOVA, O. A., and VOZNESENSKIY, V. L.

"Quantitative Methods of Investigation of Photosynthesis with the Aid of Radioactive Carbon."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

Voznesenskiy, V.L.

(4) PHASE I BOOK EXPLOITATION SOV/2713

International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958

Doklady sovetskikh uchenykh; polucheniye i primeneniye izotopov (Reports of Soviet Scientists; Production and Application of Isotopes) Moscow, Atomizdat, 1959. 388 p. (Series: Its: Trudy, vol. 6) 8,000 copies printed.

Eds. (Title page): G.V. Kurdyumov, Academician, and I.I. Novikov, Corresponding Member, USSR Academy of Sciences; Ed. (Inside book): Z.D. Andreyenko; Tech. Ed.: Z.D. Andreyenko.

PURPOSE: This book is intended for scientists, engineers, physicians, and biologists engaged in the production and application of atomic energy to peaceful uses; for professors and graduate and nongraduate students of higher technical schools where nuclear science is taught; and for the general public interested in atomic science and technology.

COVERAGE: This is volume 6 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy held in Geneva from September 1 to 13, 1958. Volume 6 contains 32 reports on: 1) modern methods for the production of stable radioactive isotopes and their labeled compounds, 2) research results obtained with the aid of isotopes in the field of chemistry, metallurgy, machine building, and agriculture, and 3) dosimetry of ionizing radiation. Volume 6 was edited by: S.V. Levinskiy, Candidate of Medical Sciences; V.S. Pruzhkov, Candidate of Chemical Sciences; and V.V. Sedov, Candidate of Medical Sciences. See SOV/2081 for titles of volumes of the set. References appear at the end of the articles.

VOZNESENSKIY, V.L.; SEMIKHATOVA, O.A.

Experimental verification of the radiometric method of evaluating the rate of photosynthesis. Fiziol.rast. 6 no.3:380-384 My-Je '59. (MIRA 12:8)

1. V.L.Komarov Botanical Institute, Leningrad.
(Photosynthesis) (Radioactive tracers)

VOZNESENSKIY, V. L. Cand Bio Sci — (diss) "Comparative characteristics and theoretical bases for the radiometric method of investigating plant photosynthesis," Moscow, 1960, 23 pp, 250 cop. (Institute of Plant Physiology im K. A. Timiryazev, AS USSR) (KL, 42-60, 112)

VOZNESENSKIY, V.L.

Determining the photosynthetic rate from chances in the electric conductivity of the absorbing alkali solution [w.s.i.E]. Trudy Bot. inst. Ser.4 no.14:258-283 '60. (MIRA 14:3)
(Photosynthesis) (Conductometric analysis)

VOZNESENSKIY, V.L.

Error occurring in conductometric defermination of the intensity of photosynthesis. Biofizika 5 no. 6:755-757 '60. (MIRA 13:10)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(PHOTOSYNTHESIS) (CONDUCTOMETRIC ANALYSIS)

VOZNESENSKIY, V.L.

Research on gas exchange in plants in the closed systems of $C^{14}O_2$. Biofizika 6 no.6:725-733 '61. (MIRA 15:1)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad.
(PLANTS--RESPIRATION)

DILOV, Kh.V.; FILIPPOVA, L.A.; SHTAN'KO, T.P.; VOZNESENSKIY, V.L.; SEMIKHATOVA, O.A.; ZALENSKIY, O.V.

Dark metabolism of organic compounds in barley at different temperatures. Trudy Bot. inst. Ser. 4 no.15:3-24 '62. (MIRA 15:7)
(Plants—Metabolism)

SEMIKHATOVA, O[lga] A[leksandrovna]; CHULANOVSKAYA, Mariya Vladimirovna; [illegible], T.M., red.; VOZNESENSKIY, V.L., red.

[Manometric methods for studying respiration and photosynthesis in plants] Manometricheskie metody izucheniia dykhaniia i fotosinteza rastenii. Moskva, Nauka, 1965. 167 p. (MIRA 18:11)

VOZNESENSKIY, V.L.

Possibility of studying the gas exchange of plants in closed systems with the help of $C^{14}O_2$. Fiziol.rast. 12 no.4:746-749 Jl-Ag '65. (MIRA 18:12)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad. Submitted May 29, 1964.

L 5257-66 EWT(1)/FS(v)-3 DD
ACC NR: AP5027495 SOURCE CODE: UR/0326/65/012/004/0746/0749

AUTHOR: Voznesenskiy, V. L.

ORG: Botanical Institute im. V. L. Komarov, AN SSSR, Leningrad (Botanicheskiy institut AN SSSR)

TITLE: The possibility of studying gas exchange of plants in closed systems by means of carbon-14 labeled carbon dioxide

SOURCE: Fiziologiya rasteniy, v. 12, no. 4, 1965, 746-749

TOPIC TAGS: plant metabolism, plant respiration, photosynthesis, carbon dioxide, isotope, test chamber, test method

ABSTRACT: Tests were designed to discover whether data on plant photosynthesis obtained on the basis of CO_2 radioactivity changes corresponds to the apparent photosynthesis, the true photosynthesis, or to none of the usual processes of CO_2 metabolism. In 40 tests, leaves of various plants were placed in a glass container with a counter, optic-acoustic gas analyzers with a selfscriber to measure CO_2 concentration, labeled CO_2, and lighting equipment. The tests were conducted at room temperature, with a light intensity varying from 3 to 16 thousand lux and an initial CO_2 concentration of 0.5-1%. Results of curve analysis were as follows. In varying tests with high initial CO_2

UDC: 581.132+581.1.08

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concentration, the specific CO_2 activity remained first constant, then dropped. For small initial CO_2 concentrations, the activity dropped to a constant value as CO_2 assimilation by the plants decreased. No increase of the specific CO_2 activity was observed during the tests in contrast to findings by other authors. This last fact does not mean that no isotope effect exists; it may have been masked. As regards the relationship between CO_2 metabolism and CO_2 concentration, curves for the apparent CO_2 exchange differed from those based on CO_2 radioactivity and also from the true photosynthesis (see Fig. 3). In this system, data were obtained only on the assimilation of CO_2 from an outer medium, without consideration of CO_2 reassimilation. It was concluded that this method yields reliable data on the rate of photosynthesis depending on many external factors (such as light or temperature) at high CO_2 concentrations. At low concentrations for which the rate of photosynthesis depends on CO_2 concentration, radioactive data reflect only the approximate rate of photosynthesis. Depending on the experimental conditions (respiration rate, isotope effect, participation of labeled CO_2 in respiration) the values obtained may be closer to the apparent or to the true photosynthetic rate. In closed systems with illuminated plants the specific activity of CO_2 does not vary linearly with time; hence in the general case the CO_2 liberation rate as a result of respiration cannot be deduced on the basis of decrease in the specific activity, even if isotope effects are neglected. Orig. art. has: 4 figures.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961210006-5"

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ACC NR: AP5027495

Intensity of gas exchange in relative units

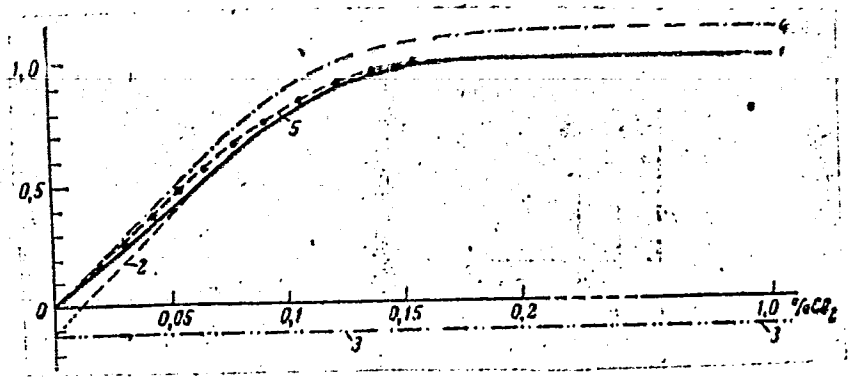

Fig. 3. Curves of intensity of photosynthesis as a function of CO_2 concentration plotted according to data in Fig. 1. 1 - photosynthesis measured by $C^{14}O_2$, 2 - apparent photosynthesis, 3 - respiration, 4 - true photosynthesis, 5 - curve of true photosynthesis (4) brought to the level of curves 1 and 2.

SUB CODE: LS, GC/ SUBM DATE: 29May64/ ORIG REF: 010/ OTH REF: 005

Card 3/3

VOZNESENSKIY, Viktor Leonidovich; ZALENSKIY, Oleg Vyacheslavovich; SEMIKHATOVA, Ol'ga Aleksandrovna; Prinimali uchastiye: GLAGOLEVA, T.A.; FILIPPOVA, L.A.

[Methods of photosynthesis and respiration studies] Metody issledovaniia fotosinteza i dykhaniia rastenii. Moskva, Nauka, 1965. 304 p. (MIRA 18:8)

1. Laboratoriya fotosinteza Botanicheskogo instituta im.V.L. Komarova AN SSSR (for Glagoleva, Filippova).

VOZNESENSKIY, V.L.

Study of the carbon dioxide gas exchange curves of plants at low CO_2 concentrations. Fiziol. rast. 11 no.6:974-977 N-D '64. (MIRA 18:2)

1. Komarov Botanical Institute, U.S.S.R. Academy of Sciences, Leningrad.

FILIPPOVA, L.A.; VOZNESENSKIY, V.L.; BOGATKINA, V.F.

Use of the products of photosynthesis in respiration. Fiziol. rast. 11 no.1:43-48 Ja-F '64. (MIRA 17:2)

1. Laboratoriya fotosinteza Botanicheskogo instituta imeni V.L. Komarova AN SSSR, Leningrad.

VOZNESENSKIY, V. P.

P. I. Diakonov. Khirurgiia, Moskva. no.9:11-16 Sept. 1950.
(CLML 20:1)

1. Obituary.

VOZNESENSKIY, V.P., gornyy inzh.

Using charges with air spaces in quarries of the Dokuchaev flux dolomite combine. Vzryv. delo no.54/11:325-328 '64. (MIRA 17:9)

1. Dokuchayevskiy flyuso-dolomitnyy kombinat.

VOZNESENSKIY, V. P.

Bone - Grafting

Case of extensive osteoplasty of the shoulder. Uch.zap.Vt.mosk.med.inst., 2, 1951.

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

VOZNESENSKIY, V.P.

TIKHONOVA, Z.I.; STEPANOVA, M.N., kandidat meditsinskikh nauk; MESHALKIN, Ye.N., kandidat meditsinskikh nauk; RAKULEV, A.N., professor; GULYAYEV, A.V., professor; VOZNESENSKIY, V.P., professor; DMITRIYEV, I.P., professor; OGNEV, B.V., professor; VAZA, D.L., professor; PETROV, B.A., professor, predsedatel'; DOROFEYEV, V.I., sekretar'.

Minutes of the session of the Surgical Society of Moscow and Moscow Province of June 27, 1952. Khirurgiia no.3:84-88 Mr '53. (MLRA 6:6)

1. Khirurgicheskoye obshchestvo Moskvy i Moskovskoy Oblasti.
(Heart--Surgery) (Cardiovascular system--Surgery)

VOZNESENSKIY, Vladimir Petrovich; IVANOV, Vasiliy Alekseyevich

[Operative surgery and topographic anatomy] Operativnaia khirurgiia i topograficheskaia anatomiia. Moskva, Medgiz, 1959. 470 p. (MIRA 13:7)

(SURGERY, OPERATIVE) (ANATOMY, SURGICAL AND TOPOGRAPHICAL)

BAKULEV, A.N., akad.; BLOKHIN, N.N.; BOGUSH, L.K.; VELIKORETSKIY, A.N., prof.; VOZNESENSKIY, V.P., prof., zasl. deyatel' nauki [deceased]; GULYAYEV, A.V., prof.; DANILOV, I.V., prof.; DUBOV, M.D., doktor med. nauk; KAZANSKIY, V.I., prof.; LIMBERG, A.A.; LINBERG, B.E., zasl. deyatel' nauki, prof.; MEDVEDEV, I.A., dots.; MESHALKIN, Ye.N., prof.; MIRONOVICH, N.I., doktor med. nauk; NIKOLAYEV, O.V., prof.; NIFONTOV, B.V., doktor med. nauk; PETROVSKIY, B.V.; PRIOROV, N.N.[deceased]; RIKHTER, G.A., prof.; ROVNOV, A.S., prof.; RUFANOV, I.G.; STRUCHKOV, V.I.; SHRAYBER, M.I., doktor med. nauk; GORELIK, S.L., dots., red.; YELANSKIY, N.N., red.; SALISHCHEV, V.E., zasl. deyatel' nauki, prof.[deceased]; RYBUSHKIN, I.N., red.; BUL'DYAYEV, N.A., tekhn. red.

[Surgeon's reference book in two volumes] Sprawochnik khirurga v dvukh tomakh. Pod obshchei red. A.N.Velikoretskogo i dr. Moskva, Medgiz. Vol.1. 1961. 564 p. (MIRA 14:12)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Blokhin, Petrovskiy, Priorov, Rufanov, Limberg). 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Bogush, Struchkov, Yelanskiy). (SURGERY)

BABKIN, I.A.; BOGOLYUBSKIY, G.N.; BURLINOV, I.I.; VOZNESENSKIY, V.V.; DANILYUK, V.S.; ZAPOL'SKIY, G.N.; ZUBKIN, A.S.; IL'YASHEV, A.S.; KIPRIYAN, K.M.; KONDRAT'YEV, P.V.; KORABLEV, M.D.; LEBEDEVA, Yu.A.; MAKAROV, Yu.K.; MIROSHNIKOV, I.P.; NOVICHENKO, I.P.; POPOV, A.V.; SEREBRYAKOV, V.A.; KANEVSKAYA, M.D., red.; ANDRIANOV, B.I., tekhn.red.

[Protecting the public from present-day means of destruction; a textbook for organizations of the All-Union Voluntary Society for the Promotion of the Army, Aviation, and Navy] Zashchita naseleniia ot sovremennykh sredstv porazheniia; uchebnoe posobie dlia organizatsii Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu. Moskva, Izd-vo DOSAAF, 1958. 334 p. (MIRA 12:4)
(Civil defense)

BOGOLYUBSKIY, G.N.; BURLINOV, I.I.; VINOGRADOV, L.V.; VOZNESENSKIY, V.Y.; DANILYUK, V.S.; ZUBKIN, A.S.; IL'YASHEV, A.S.; KORABLEV, M.D.; LEBEDEVA, Yu.A.; MAKAROV, Yu.K.; MIROSHNIKOV, I.P.; NOVICHENKO, I.P.; POPOV, A.V.; SEREBRAKOV, V.A.; VARENNIKOV, I.S., red.; GODINER, F.Ye., red.; SORKIN, M.Z., tekhn. red.

[Protecting the population from present-day means of destruction] Zashchita naseleniia ot sovremennykh sredstv porazheniia; uchebnoe posobie dlia organizatsii DOSAAF. Pod obshchei red. I.S.Varennikova i L.V.Vinogradova. Izd.2., perer. i dop. Moskva, Izd-vo DOSAAF, 1962. 254 p. (MIRA 16:4)
(Civil defense)

PHASE I BOOK EXPLOITATION SOV/6426

Bogolyubskiy, G. N., I. I. Burlinov, L. V. Vinogradov, V. V. Voznesenskiy, V. S. Danilyuk, A. S. Zubkin, A. S. Il'yashev, M. D. Korablev, Yu. A. Lebedeva, Yu. K. Makarov, I. P. Miroshnikov, I. P. Novichenko, A. V. Popov, and V. A. Serebryakov

Zashchita naseleniya ot sovremennykh sredstv porazheniya; uchebnoye posobiye dlya organizatsii DOSAAF (Protection of the Population From Modern Means of Destruction; Handbook for DOSAAF Organizations) 2d ed., rev. and enl. Moscow, DOSAAF, 1963. 254 p. 450,000 copies printed.

Sponsoring Agency: Vsesoyuznoye ordena krasnogo znameni Dobrovol'noye obshchestvo sodeystviya armii, aviatsii i floty.

Eds. (Title page): I. S. Varennikov and L. V. Vinogradov; Compilers: M. D. Korablev and Yu. A. Lebedeva; Ed.: F. Ye. Godiner; Tech. Ed.: M. Z. Sorkin.

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VOZNESENSKIY, V.V., gornyy inzh.; KHUTORYANSKIY, Ye.Ye., gornyy inzh.; AVDONIN, E.I., gornyy inzh.

Starting centrifugal pumps without priming. Ugol' 40 no.4:75 Ap '65. (MIRA 18:5)

VOZNESENSKIY, V.V., gornyy inzh.-elektromekhanik; KURBATSKIY, B.P., gornyy inzh.-elektromekhanik

Improvement of the automatic control system of winches used for railroad serviced waste piles. Ugol' Ukr. 7 no.11:37-38 N '63. (MIRA 17:4)

BELAYENKO, F.A., prof., doktor tekhn.nauk; KRASNOPOL'SKIY, A.A., gornyy inzhener; DRUKOVANYY, M.F., gornyy inzhener; VOZNESENSKIY, V.V., gornyy inzhener; DZYABURA, G.F., gornyy inzhener; POLYAKOV, S.D., gornyy inzhener

Results of using single-row and multirow and short-delay blasting in pits of the Yelenovka Mining Administration. Vzryv. delo no.47/4:74-84 '61. (MIRA 15:2)

1. Dnepropetrovskiy gornyy institut, Yelenovskoye rudoupravleniye. (Yelenovka region (Donetsk Province)--Blasting) (Boring)

VOZNESENSKIY, Yevgeniy Pavlovich; BROVCHENKO, Ignatiy Savel'yevich; Prinimal uchastiye TIMONIN, M.G.; MARDER, I.M., retsenzent; RYZHOV, A.D., retsenzent; ABELTIN'SH, A.Ya., retsenzent; AKIMOVA, L.D., red.; PECHENKINA, O.P., tekhn. red.

[Accounting in food industry enterprises] Bukhgalterskii uchet na predpriiatiiakh pishchevoi promyshlennosti. Moskva, Pishchepromizdat, 1963. 342 p. (MIRA 17:2)

L 10344-63 EPF(n)-2/EWT(m)/BDS/ES(b) AFFTC/ASD/AFWL/SSD Pu-4 K
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Zashchita naseleniya ot sovremennykh sredstv porazheniya; uchebnoye posobiye dlya organizatsii DOSAAF (Protection of the Population From Modern Means of Destruction; Handbook for DOSAAF Organizations) 2d ed., rev. and enl. Moscow, DOSAAF, 1963. 254 p. 450,000 copies printed.

Sponsoring Agency: Vsesoyuznoye ordena krasnogo znameni Dobrovol'noye obshchestvo sodeystviya armii, aviatsii i floty.

Eds. (Title page): I. S. Varennikov and L. V. Vinogradov; Compilers: M. D. Korablev and Yu. A. Lebedeva; Ed.: F. Ye. Godiner; Tech. Ed.: M. Z. Sorkin.

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L 10344-63 SOV/6426 6
Protection of the Population (Cont.)

PURPOSE: This textbook is intended for persons studying civil defense, and is the basic manual for DOSAAF civil-defense instructors.

COVERAGE: This book describes in detail modern aerial mass-destruction weapons and civil defense. It also discusses means of coping with the effects of an attack.

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AVAILABLE: Library of Congress

SUBJECT: Civil Defense

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VOZNESENSKIY, Ye.P., kand. ekon. nauk.

"Economical analysis of production and finance activities of industrial enterprises" by I.I. Poklad. Reviewed by E.P. Voznesenskii. (MIRA 11:2)
Vest. mash. 38 no.3:90-91 Mr '58.
(Machinery industry)
(Poklad, I.I.)

VOZNESENSKIY, YE P

Bukhgalterskiy uchet kapital'nogo stroitel'stva. (a bookkeeping account of capital constructions, by Ye. P. Voznesenskiy i N. P. Protov. Moskva, Gosfinizdat, 1951

Lib. Has: v. 1.

VOZNESENSKIY, Ye. P.

Ye. P. Voznesenskiy, Kompleksnaya mekhanizatsiya vozdelyvaniya kartofelya v nechernozemnoy polose SSSR (Complex Mechanization of Potato Cultivation in the Non-Black Soil Area of the USSR) Sel' khozgiz, 5 sheets.

The brochure describes the construction and utilization of machines and tools used for complex mechanization of potato cultivation in the non-black soil area of the USSR.

The brochure is intended for agricultural mechanizers who are concerned with potato cultivation.

SO: U-6472, 18 Nov 1954

1. VOZHDSSENSKIY, S. P.

2. USSR (600)

4. Earthmoving Machinery

7. Use of machinery in earthwork during the construction of a multiple section pit silo. Korm. baza 4 No. 3, 1953.

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

VOZNESENSKII, E.P.

Mekhanizatsiia vozdelyvaniia kartofelia v nechernozemnoi polose SSSR (Mechanization of potato cultivation in the nonchernozem belt of the U.S.S.R.) Moskva, Sel'khozgiz, 1954. 152 p.

SO: Monthly List of Russian Accessions, Vol 7, No. 8, Nov. 1954

ARSHINOV, A., inzh.; VOZNESENSKIY, Yu., inzh.

Device for observing phase relationship in stereophonic recording. Radio no.4:51,54 Ap '63. (MIRA 16:3)
(Stereophonic sound systems)
(Magnetic recorders and recording)

VOZNESENSKIY, Yu.A.

Use of the FM principle and a capacitance device for controlling quality in connection with a cutting bead using feedback. Trudy VNAIZ no.7:97-103 '60. (MIRA 14:4)
(Sound—Recording and reproducing) (Phonorecords)

VOZNESENSKIY, Yu.A.

A stereophonic sound reproducing system. Trudy VNIIZ no.9:128-134 '61. (MIRA 15:9)

(Sterephonic sound systems)

25555
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B116/B212

26.2262

AUTHORS: Bondarenko, A. V., Voznesenskiy, Yu. A., Minashin, M. Ye., Sidorova, I. I., Sharapov, V. N.

TITLE: Investigation of the automatic control system for the power level of a power reactor

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 4, no. 8, 1961, 54-62

TEXT: The present paper deals with the calculation of the control system of a power reactor. A concrete example is given for the investigation of the transient processes for one of the variants of a projected reactor having an automatic power control system. A number of questions are discussed which are connected with the automatic reactor during non-steady operation. The variant mentioned is shown in Fig. 1. The control object is built similarly to that of the first atomic power plant in the USSR, namely, a heterogeneous uranium-graphite boiling reactor. This reactor has an effective neutron life of $l = 4 \cdot 10^{-4}$ sec and a negative temperature effect. Fig. 2 shows the cross section of a fuel element in the graphite

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block of the core. Three groups of equations are set up: For the change of neutron density in the reactor in time:

$$\frac{dn}{d\tau} = \frac{k_{эфф}(1-\beta)-1}{l} n + \sum_{i=1}^{6} \lambda_i c_i, \qquad (1)$$

$$\frac{dc_i}{d\tau} = -\lambda_i c_i + \frac{k_{эфф}\beta_i}{l} n, \qquad (2\text{-}7),$$

$$\beta = \sum_{i=1}^{6} \beta_i, \; i = 1, 2, \ldots, 6$$

where τ denotes the time, n the neutron density, $k_{эфф} = k_{eff}$, λ_i the decay constant of the fragments of the i-th group of delayed neutrons, l the effective relative yield of delayed neutrons of the i-th group (taking into account the production energy), c_i the effective life of neutrons in the

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reactor. The deviation $\Delta k = k_{eff} - 1$ is caused by an external perturbation ($\Delta k_{perturbation}$) and by a change in reactivity 1) due to the motion of the control rods (automatic controller): Δk_{AR}, 2) due to the insertion of emergency protection rods into the core: Δk_{ep}; and 3) due to the deviation of the uranium, moderator and coolant temperatures: Δk_t; Δk combines additively all of these. The second group of equations expresses the change in time of the determining parameters of the automatic control system. They read: $\frac{d\Delta\varphi_1}{d\tau} = k_1[n(\tau) - 1]$ (8)

$T_{MV}\frac{d\Delta u}{d\tau} + \Delta u = k_2(\Delta\varphi_1 - k_3\Delta\varphi_2)$ (9) $\frac{d\Delta\varphi_2}{d\tau} = x$ (10),

$T_{SW}\frac{dx}{d\tau} + x = k_4\Delta u$ (11), $\Delta k_{AR} = -k_5\Delta\varphi_2$ (12),

where $n(\tau)$ denotes the relative neutron density; φ_1 the angle of rotation;

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of the drive (of the intermediate switch mechanism); φ_2 the angle of rotation of the switch mechanism drive; u the potential at the output of the magnetic amplifier; T_{MV} the time constant of this amplifier; T_{SW} the time constant of the switch mechanism; k_1, k_2, k_3, k_4, k_5 denote the transmission coefficients of the control elements. The third group of equations makes it possible to determine the mean change of the uranium temperature ($\overline{\Delta t_u}$) in the reactor and also the change of k_{eff} when the uranium temperature changes by 1°C and by Δk_t, if the temperature coefficient of reactivity (ϱ_{temp}) is known. These equations read as follows:

$$\frac{d\Delta t_u^{I}}{d\tau} = -0{,}650\,\Delta t_u^{I} + 0{,}596\,\Delta t_l^{I} + 8{,}63\,[n(\tau) - 1]; \qquad (13)$$

$$\frac{d\Delta t_u^{II}}{d\tau} = -0{,}654\,\Delta t_u^{II} + 0{,}600\,\Delta t_l^{II} + 16{,}2\,[n(\tau) - 1]; \qquad (14)$$

$$\frac{d\Delta t_u^{III}}{d\tau} = -0{,}661\,\Delta t_u^{III} + 0{,}607\,\Delta t_l^{III} + 20{,}4\,[n(\tau) - 1]; \qquad (15)$$

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$$\frac{d\Delta t_u^{IV}}{d\tau} = -1{,}52\,\Delta t_u^{IV} + 20{,}4\,[n(\tau) - 1]; \quad (16)$$

$$\frac{d\Delta t_f^{I}}{d\tau} = 1{,}77\,\Delta t_u^{I} - 7{,}64\,\Delta t_f^{I}; \quad (17)$$

$$\frac{d\Delta t_f^{II}}{d\tau} = 1{,}69\,\Delta t_u^{II} - 4{,}99\,\Delta t_f^{II} + 3{,}04\,\Delta t_f^{I}; \quad (18)$$

$$\frac{d\Delta t_f^{III}}{d\tau} = 1{,}48\,\Delta t_u^{III} - 5{,}67\,\Delta t_f^{III} + 3{,}33\,\Delta t_f^{II} - 0{,}015\,\Delta t_f^{III}\,\Delta t_u^{III}. \quad (19),$$

where Δt_u denotes the deviation of the mean uranium temperature in the cross section of the core in question from a nominal value; Δt_f the deviation of the mean coolant temperature in a certain section (the active zone is divided into several sections with respect to height: I, II, III, IV). It is assumed that the heat removal is concentrated in the layer having radius r_3, and that the fuel mass will produce an additional thermal resistance. Eqs. (1) - (19) have been investigated with the help of a re-

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actor simulator considering 6 groups of delayed neutrons and with three simulating devices of type MN-7 (MN-7) for work control of reactors. The set of equations is schematically shown in Fig. 3. The following results have been obtained by a study of the automatic controller and reactor for non-steady operation: 1) Representation in one-group approximation results in an excessively high maximum reactivity jump permissible; therefore, 6 groups have been taken. 2) For a discontinuously changing reactivity, the increase of the amplification factor of the automatic controller will first decrease the power excess but will also increase the control time. Increasing the amplification factor by a factor of three will keep the system stable. 3) When the temperature effect ($\varrho_t = 0$) was not taken into account, one obtains $\Delta k_{perm} = 0.000472$ and a linear dependence of the permissible reactivity jump of ϱ_{temp}: $\delta \Delta k_{perm}/\delta \varrho_{temp} = 1.45$. 4) The maximum permissible amplitudes of reactivity pulsation in the range of 0.05 - 0.3 cps, which can be applied to the automatic controller, are given as: $\Delta k = 0.0002$ at $\varrho_t = 0$ and $\Delta k = 0.000325$ at $\varrho_t = -0.67 \cdot 10^{-4}$. Therefore, the temperature effect has to be determined accurately.

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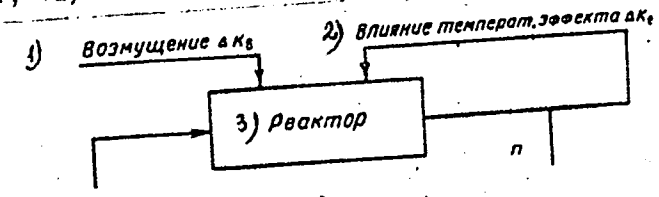
5) Even at resonance frequencies the automatic controller is able to take the pulsation of the coolant amount, and the amplitudes of the corresponding stabilized power fluctuations will be smaller than the permissible maximum. A. K. Krasin, Academician of the AS BSSR, is thanked for interest in this work. There are 5 figures and 2 Soviet-bloc references.

SUBMITTED: April 8, 1961

Fig. 1: Block diagram of the chief components of the automatic control system.

Legend: 1) perturbation; 2) influence of the temperature effect; 3) reactor; 4) control rods; 5) neutron detector; 6) power transmitter; 7) signal amplifier; 8) intermediate switch mechanism; 9) comparator; 10) drive; 11) magnetic amplifier; 12) switch mechanism.



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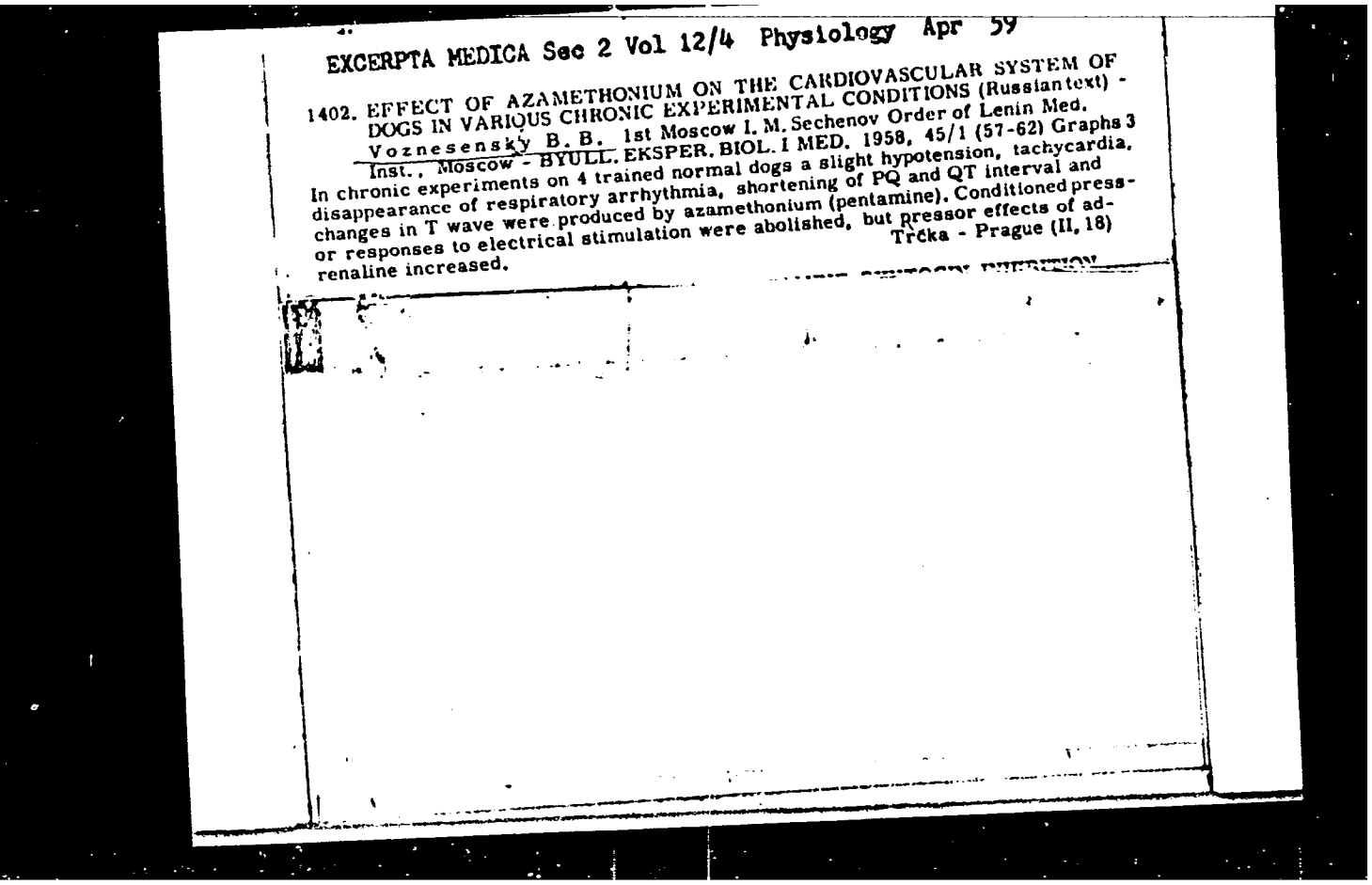
AKIMOV, V.F.; VOZNESENSKIY, Yu.A.; POPKOV, V.V.

Dynamic properties of a trap-separator as an object of automatic control. Neft. khoz. 42 no.7:52-56 Jl '64. (MIRA 17:8)

VOZNESENSKIY, Yu.A.

Force of reaction of the sound pickup stylus and the groove and methods of its measurement. Trudy VNAIZ no.5:50-66 '59. (MIRA 15:4)

(Phonographs—Testing)



EXCERPTA MEDICA Sec 2 Vol 12/4 Physiology Apr 59

1402. EFFECT OF AZAMETHONIUM ON THE CARDIOVASCULAR SYSTEM OF DOGS IN VARIOUS CHRONIC EXPERIMENTAL CONDITIONS (Russian text) - Voznesensky B. B. 1st Moscow I. M. Sechenov Order of Lenin Med. Inst., Moscow - BYULL. EKSPER. BIOL. I MED. 1958, 45/1 (57-62) Graphs 3

In chronic experiments on 4 trained normal dogs a slight hypotension, tachycardia, disappearance of respiratory arrhythmia, shortening of PQ and QT interval and changes in T wave were produced by azamethonium (pentamine). Conditioned pressor responses to electrical stimulation were abolished, but pressor effects of adrenaline increased. Trčka - Prague (II, 18)

VOZNESENSKIY, B.B.

Effect of ACTH on the circulatory system under experimental conditions [with summary in English]. Probl.endok. i gorm. 5 no.1:24-30 Ja-F '59. (MIRA 12:3)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. S.M. Pavlenko) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(ACTH, effects,
on cardiovasc. system in animals (Rus))
(CARDIOVASCULAR SYSTEM, eff. of drugs on,
ACTH (Rus))

KOPYRIN, I.A.; OSTROUKHOV, M.Ya.; BYALYY, L.A.; VOZNESENSKY, V.A.; PLASTININ, B.G.; Prinimali uchastiye: KUDRYAVTSEV, A.V.; CHIRKOV, G.G.; BRADCHENKO, V.P.

Investigation of gas dynaimcs in the blast furnace process using helium. Izv. AN SSSR.Otd.tekh.nauk. Met. i topl. no.5:22-28 S-O '62. (MIRA 15:10)

(Blast furnaces) (Gas dynamics)

VOZNESENSKY, V.L. [Voznesenskiy, V.L.]

Conductometric apparatus for determining photosynthetic rate.
Biologia plantarum 6 no. 2:79-83 '64.

1. V.L.Komarov Institute of Botany, Academy of Sciences of the U.S.S.R., Leningrad 22, ul. prof. Popova 2.

VOZNICA, Drahoslav

Further development of socialist competition. Geol pruzkum 6 no.9:257-258 S '64.

1. Central Committee of Mining Industry and Power Industry Trade Unions, Prague.

VOZNICA, Drahoslav

By competition promoting the socialist attitude towards work. Uhli 6 no.10:353-354 O '64.

1. Central Committee of the Trade Union of Mining and Power Engineering Industries.

VOZNICA, Drahoslav

Socialist competition and socialist work brigades in the coal industry. Uhli 6 no. 4: 113-114 Ap '64.

1. Central Committee of the Trade Union of Miners and Power Engineering Workers.

SHUMA, S. [Szyma, S.] (Pol'sha); VOZNICHEK, K. [Wozniczek, K.] (Pol'sha)

Acoustic aspects of the Gruneisen-Debye equation. Prim. ul-traakust. k issl. veshch. no.14:61-63 '61. (MIRA 14:12)
(Molecular theory) (Sound--Speed) (Differential equations)

PFLIEGEL, Theodor; ADAMEK, Milan; VOZNICOVA, Eva

Data on the effect of concentrated sulphuric acid on some substituted 1,4-acylamino-arylamino-anthraquinones. Chem prum 14 no.12:641-643 D '64

1. At present: Chinoin, Budapest-Ujpest (for Pfliegel). 2. Chair of Organic Substance Technology of the Higher School of Chemical Technology, Pardubice (for Adamek and Voznicova).

VOZNITSKIY, I., dotsent, kand. tekhn. nauk

Modernization of the MV-24 engine. Mor. flot 25 no.7:28-29 Jl '65.
(MIRA 18:7)

VOZNITSKIY, Igor' Vital'yevich; IVANOV, Lev Andrianovich. Prinimal uchastiye CHUKHRIN, L.A.; MEGRABOV, G.A., dots., retsenzent; MALAKHOV, N.D., mekhanik-nastavnik Dal'nevostochnogo parokhodstva, retsenzent; NELIDOVA, E.S., red.; LAVRENOVA, N.B., tekhn. red.

[Breakdown of internal combustion marine engines] Avarii sudovykh dvigatelei vnutrennego sgoraniia. Moskva, Izd-vo "Morskoi transport," 1961. 240 p. (MIRA 15:2)
(Marine engines--Maintenance and repair)

VOZNITSKIY, Igor' Vital'yevich. Prinimali uchastiye: IVANOV, L.A., kand. tekhn.nauk; KUZ'MIN, N.V., inzh.. ROZHANSKIY, G.S., kand.tekhn. nauk, retsenzent; DANILEVSKIY, V.V., dotsent, red.; ANDREYEVA, L.S., red.izd-va; LAVRENOVA, N.B., tekhn.red.

[Engines and power plants on modern trawlers] Dvigateli i silovye ustanovki sovremennykh rybopromyslovykh sudov. Moskva, Izd-vo "Morskoi transport," 1959. 201 p. (MIRA 12:12)
(Trawls and trawling) (Marine engines)

VOZENILEK, F.

"The measuring technique for nuclear reactors."

p. 94 (Sdelovaci Technika, Vol. 6, No. 3, March 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 9, September 1958.

VOZNITSKIY, I., kandidat tekhnicheskikh nauk (Murmansk)

Valuable work on problems of ship engine superchargers. ("Increasing the power of ship diesel engines by supercharging." N.V. Petrovskii. Reviewed by I. Voznitskii). Mor.flot 16 no.4:31 Ap '56. (MLRA 9:8)

(Marine diesel engines) (Superchargers) (Petrovskii, N.V.)

VOZNJAK, M.

Restoration of old receivers. p. 174.

RADIOAMATER. (Savez radioamatera Jugoslavije)
Beograd, Yugoslavia. Vol. 12, no. 6, June 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959.

Uncl.

18(7) PHASE I BOOK EXPLOITATION SOV/2273

Voznovich, P. D.

Okhlazhdeniye metallurgicheskikh pechey vysoktemperaturnymi teplonositelyami (Cooling of Metallurgical Furnaces by Means of High-temperature Heat Carriers) Moscow, Metallurgizdat, 1959. 228 p. Errata slip inserted. 3,200 copies printed.

Ed.: S. M. Lukomskiy; Ed. of Publishing House: M. R. Lanovskaya; Tech. Ed.: M. K. Attopovich.

PURPOSE: This book is intended for engineers and technicians engaged in designing and operating metallurgical or other furnaces and heat exchangers using high-temperature heat carriers.

COVERAGE: Possibilities of the secondary utilization of heat as source of energy are investigated. Different types of high-temperature organic and inorganic heat carriers along with their properties and function in cooling metallurgical furnaces are discussed. Results of pilot plant tests carried out to analyze the process of cooling shaft furnace jackets using diphenyl mixture are analyzed. Various cooling systems using high-temperature heat carriers and their operations are described. Problems of heat emission and exchange,

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circulation of heat carriers suitable for cooling furnaces of various types, and the operation of cooling systems are reviewed. Some suggestions on how cooling systems should be operated are offered. The book contains designs, diagrams, tables and formulas. Comments made by V. O. Fogel', Candidate of Technical Sciences, are acknowledged by the author. There are 138 references: 125 Soviet, and 13 English.

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Cooling of Metallurgical Furnaces (Cont.) SOV/2273

AVAILABLE: Library of Congress

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VOZNJAK, M.

What is SSB? (To be contd.) p. 269.
(Radioamater, Vol. 10, No. 10, Oct. 1956, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

VOZHJAK, M.

TECHNOLOGY

VOZHJAK, M. Some new concepts of amateur transmitters. p. 212; Data on reels. p. 215.

Vol. 11, no. 7/8, July/Aug. 1957

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3 March 1959 Unclass

VOZNJAK, M.

What is SSB? p. 293
(Radioamater, Vol. 10, no. 11, Nov. 1956. Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 7, July 1957. Uncl.

VOZNYAKOVSKAYA, Yu. M.

KHUDIAKOV, Ya. P., and VOZNIAKOVSKAYA, Yu. M. "Pure Cultures of Mycorhizal Fungi," Mikrobiologiia, vol. 20, no. 1, 1951, pp. 13-19. 448.3 M582

SO: SIRA, SI 90-53, 15 Dec. 1953

VOZNYAKOVSKAYA, Yu.M., kandidat biologicheskikh nauk.

Quantitative determination of mycorhiza fungi in soils. Trudy Vses.inst.sel'khoz.mikrobiol. 13:169-172 '53. (MLRA 8:1)
(Mycorhiza)

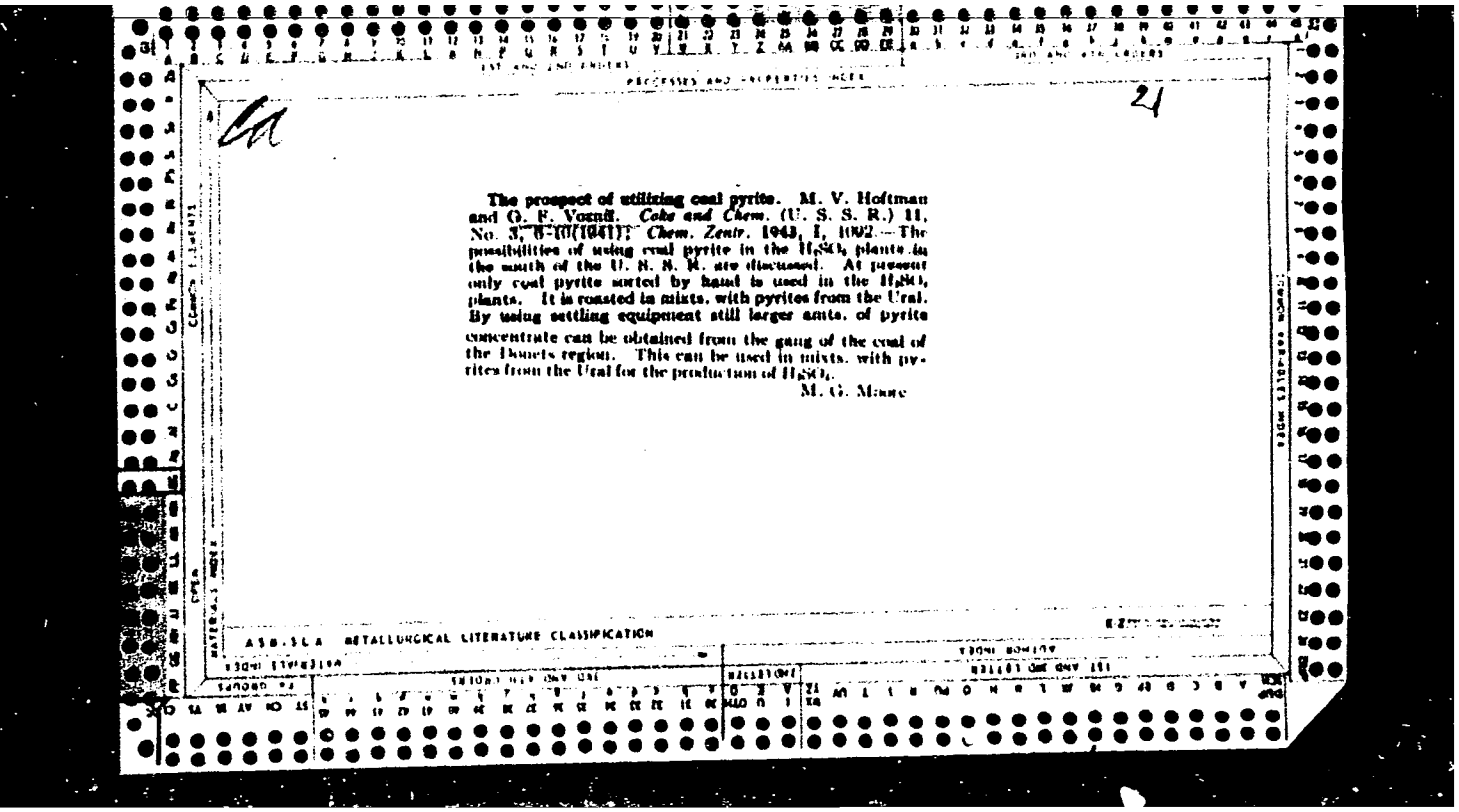
VOZNYAKOVSKAYA, Yu.M.; ZHIL'TSOVA, G.K.

Conditions determining the composition of the rhizosphere microflora of different plants. Trudy Vses. inst. sel'khoz. mikrobiol. 16:15-30 '60. (MIRA 13:9)

(Rhizosphere microbiology)

VOZNYAKOVSKAYA, Yu.M.; BORODULINA, Yu.S.

Enlarged plenum of the agricultural chemistry section of the All-Union Lenin Academy of Agricultural Sciences on problems of agricultural microbiology. Mikrobiologiia 23 no.3:388-390 My-Je '54. (MLRA 7:9)
(BACTERIOLOGY, AGRICULTURAL)
(MICROBIOLOGY)



The prospect of utilizing coal pyrite. M. V. Hoffman and G. F. Vozniĭ. *Koks and Khem.* (U. S. S. R.) 11, No. 3, 6-10(1941); *Chem. Zentr.* 1943, I, 1092.—The possibilities of using coal pyrite in the H_2SO_4 plants in the south of the U. S. S. R. are discussed. At present only coal pyrite sorted by hand is used in the H_2SO_4 plants. It is roasted in mixts. with pyrites from the Ural. By using settling equipment still larger amts. of pyrite concentrate can be obtained from the gang of the coal of the Donets region. This can be used in mixts. with pyrites from the Ural for the production of H_2SO_4.

M. G. Manve

VOZNYACHUK, L.M. [Vazniachuk, L.M.]

Detailed stratigraphic correlation of upper Pleistocene sediments of Grodno Province on the basis of paleobotanical data. Vestsi AN BSSSR. Ser. fiz.-tekh. nav. no.1:96-118 '60. (MIRA 13:6)
(Grodno Province--Paleobotany, Statigraphic)

VOZNYACHUK, L.M. [Vaxniachuk, L.M.]

Conditions determining the deposition of Riss-Wurm sediments in Grodno Province and adjacent areas of Lithuania and Poland. Vestsi AN BSSR.Ser.fiz.-tekh.nav. no.4:108-126 '59. (MIRA 13:4)
(Grodno Province--Geology, Stratigraphic)

VOZNYACHUK, L.N.

Interglacial Mikulino deposits. Trudy Inst. geol. nav. An BSSR no. 2:105-117 '60. (MIRA 13:12)
(Mikulino region (White Russia)--Geology)

MAKHNACH, Aleksandr Semenovich; VOZNYACHUK, Leonid Nikolayevich [Vaznia-chuk, L.M.]; POL'SKIY, S. [Pol'ski, S.], red.; STEPANOVA, N. [Stsiapanava, N.], tekhn.red.

[Geological past of White Russia; touring mineral resources] Gealagichnae minulae Belarusi; padarozhzha u netry Belarusi. Minsk, Dziarzhaunae vyd-va BSSR. Red.navukova-tekhn.lit-ry, 1959. 213 p. (MIRA 13:4)
(White Russia--Geology)

VOZNYACHUK, L.N.

Recent data on Mindel-Rissian sediments of White Russia. Dokl. AN BSSR 3 no.3:112-115 Mr '59. (MIRA 12:8)

1. Predstavleno akademikom AN BSSR K.I. Lukashovym.
(Grodno Province--Geology, Stratigraphic)

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AUTHOR: Voznyachuk, L. N.

TITLE: The Position of the Boundary of the Last Glaciation in Byelorussia (O polozhenii granitsy posledniego oledeneniya v Belorussii)

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ABSTRACT: The author examines various views concerning the boundary of the last glaciation and shows their lack of agreement with the present stage of knowledge on the Quaternary deposits of Byelorussia. The results of a study of the literature and of composite field investigations have permitted the author to prepare the accompanying map (see Figure). East of Grodno, the boundary of the last glaciation extends to the city of Sopotskin in the Grodno oblast and south of the town of Avgustov (Poland) it joins with the boundary of the Baltic (Vistula) glaciation. In the region of the

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