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TITOV, N. D.

25(1) PHASE I BOOK EXPLOITATION SOV/1745

Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Kiyevskoye oblastnoye upravleniye

Peredovaya tekhnologiya liteynogo proizvodstva (Advanced Technology of Casting Production) Kiyev, Mashgiz, 1958. 152 p. 6,000 copies printed.

Ed.: V. K. Serdyuk; Tech. Ed.: Ya. V. Rudenskiy; Editorial Board: A. Ya. Artamonov, K. I. Vashchenko (Resp.Ed.), S. Sh. Zaslavskiy, and B. V. Polyak; Chief Ed. (Yuzhnoye Division, Mashgiz): V. K. Serdyuk, Engineer.

PURPOSE: This book is intended for engineering personnel of foundries, and workers of scientific research institutions.

COVERAGE: This book is a collection of articles and papers given by representatives of plants, scientific-research institutes, and [illegible] on problems of advanced methods of production and mechanization of [illegible] industry at a conference organized by the Kiyev o'blast [illegible] Engineering Section of the machine-building industry [illegible] Mechanical Engineering of the Academy of Sciences, Ukrainian [illegible] gained in centrifugal pipe precision investment casting, [illegible] mold casting, use of materials preventing scorching, quick [illegible] mixtures [blends], and problems of mechanization and automation [illegible] processes are covered in this book. An article by N.Kh. Ivanov [illegible] a new cast iron welding method developed by the author with the assistance of electrowelder G. A. Pirozhenko, and called "cold electrowelding of cast iron by means of a metal electrode with an indirect arc action." As the title indicates, the arc acts only indirectly on the welded metal passing between the electrode and the build-up metal. Such welding insures shallow fusion of the cast iron. The formation of a cementite surface layer is either absent or limited to a very thin layer of not more than 0.2 mm., making for easy mechanical working. No personalities are mentioned. There are no references.

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TITOV, N. D. Cand. Tech. Sci. (Automobile Plant iment Likhachev)

"Conveyor Mass Production at ZIL"

All-Union Conference of Foundry Workers, end of 1957. Moscow.
Mashinostroitel', 1958. No. 5, p. 48.

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Titov, N.D.

PHASE I BOOK EXPLOITATION 88

Aksenov, Pavel Nikolayevich, Doctor of Technical Sciences

Tekhnologiya liteynogo proizvodstva (Technology of Casting) Moscow, Mashgiz, 1957. 664 p. 15,000 copies printed.

Reviewers: Titov, N.D., Candidate of Technical Sciences, Docent, and Fantalov, L.I., Doctor of Technical Sciences, Professor; Ed.: Konstantinov, L.S., Candidate of Technical Sciences; Tech. Eds.: Uvarova, A.F., and Model', B.I. Managing Ed. for Literature on Heavy Machine Building (Mashgiz): Golovin, S.Ya., Engineer.

PURPOSE: This monograph was prepared in connection with a specialized course of instruction entitled "Technology of Casting" for machine-building technical schools (tekhnikum) and is a systematic textbook of this subject. The material presented in this textbook may also be of interest to production personnel. The book is authorized as a textbook for tekhnikums by the Ministry of the Automobile Industry, USSR.

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Technology of Casting 88

COVERAGE: The basic technological processes involved in casting are grouped in the first three parts of the textbook. They deal with 1) molds and their preparation 2) casting alloys and preparation of molten metal, and 3) the casting process. The material for the basic part of the course is based on prevailing pig iron foundry practices of the machine-building industry. Special features of making castings from malleable iron, steel, and nonferrous alloys, and special methods of casting, i.e., permanent mold casting, continuous casting, casting under pressure, centrifugal casting, investment casting, shell-mold casting are presented in the fourth part of the textbook. The fifth and last part of the textbook presents basic principles for designing foundries. Some technological calculations involved in designing a foundry and some problems of foundry planning are given. There are 52 references, all Soviet.

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TITOV, Nikolay Dmitriyevich; SANKOV, I.I., inzh., retsenzent; CHERNYAK, O.V., inzh., red.; TIKHANOV, A.Ya., tekhn.red.

[Continuous flow system for the mass production of castings] Potochno-massovoe proizvodstvo otlivok. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1960. 527 p. (MIRA 13:10)
(Founding) (Assembly-line methods)

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Caking of coals. G. L. Stadnikov and N. G. Titov (Khim. Tverd. Topl., 1931, 2, No. 1, 49—51).—Characteristics of coal from the Lenin mine, Kuznetski basin, and of its distillation products, are recorded. The relation of bitumens -A, -B, and -C to the coking properties of the coal was examined. Ch. Abs.

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Determination of sulphur in solid fuels. G. L. STADNIKOV and N. G. TREOV (Coke and Chem., U.S.S.R., 1932, No. 5—6, 29—36).—Parr and Powell's method for determining SO_4 and pyrite-S, and Eschka's method for determining total S, are recommended. CH. ABS.

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Coals of the Moscow district. N. G. Titov. *Tverdogo Topliva* 4, 35-46(1933).—Analyses and Fischer-retort distn. tests are given. A. A. Boehtlingk

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755830001-1

CA

Caking of coals. G. L. Stadnikov and N. G. Titov. *Khim. Tverdogo Topliva* 2, No. 1, 49-51(1931).—Coal from the Lenin mine in the Kuznetzkii basin had the following compn.: moisture 2.66% (calcd. on dry coal), ash 4.58, volatile matter 40.1, org. mass: C 83.14, H 5.03, N 1.92, S 0.07%, calories 8220. On distn. in a Fischer retort water (of decompn.) 4.5, tar 14.6, semi-coke 72.9 and gas 8.0% were obtained. The primary tar contained phenols 18.1, acids 2.0 and org. bases 4.5%. The primary gas was composed of CO_2 7.3, C_nH_m 4.62, CO 3.7, H 3.0, CH_4 72.2 and N 9.2%. "Bitumens A, B and C" were extd., analyzed and their relation shown to the coking properties of the coal.

A. A. Boehtlingk

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Bitumens from sphagnum peat. [illegible] Khim. Tverdogo Topliva 2, No. 9, 15-27(1931); cf. CA 30, 5195. A. A. Boehtlingk

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The weathering of coal. G. L. Stadnikov and N. G. Titov. *Khim. Tverdogo Topliva* 4, 47-9(1933); cf. C. A. 27, 177.—A number of theories are reviewed.

A. A. Boehthugk

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CA

Primary gases. G. L. Stadnikov, N. G. Tkov and N. L. Efimova. *Khim. Tverdogo Topliva* 5, 189-8 (1934). Errors occurring in the joint combustion of H and CH_4, and in the detn. of C_2H_6 in the presence of N, and measures for their elimination are discussed.

A. A. Boehtlingk

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3RD AND 4TH ORDERS

Coals from the Tkvibulskii and Tkvarchelskii deposits. N. G. Titov and R. R. Galle. *Khim. Tverdogo Topliva* 5, 209-19(1934).—The Tkvibulskii coal, mined near Kutais (Caucasus), is found in the following types: (1) clarain, a black shiny coal with narrow stripes; (2) coal with wide stripes of dull appearance contg. lenses of pitch black, shiny vitrain; (3) coal composed mainly of a dense dull mass of greyish to dark grey color, contg. large lenses of vitrain; (4) a sapropel type coal, very hard and tenacious; (5) vitrain. A complete chem. analysis of this coal is given. The Tkvarchelskii deposit, located near Ochemchirui (Caucasus), is high in ash. Analyses of samples drawn from prospect pits are given. A. A. B.

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21

The coals of the Moscow basin. N. G. Titov. *Khim. Tverdogo Topliva* 5, 595–601(1934); cf. *C. A.* 28, 5058[8].—Detailed analyses of the coals from the Pobedinskii and Kaganovich mines are presented. A. A. Boehtlingk.

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Coals from the Chelyabinsk deposits. N. G. Titus. *Khim. Tverdogo Topliva* 5, 870-83(1934). General characteristics of the Chelyabinsk brown coals are presented.
A. A. Boehtlingk

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PROCESSES AND PROPERTIES

The use of alcohol benzene mixture in the extraction of bitumen. N. G. Hroy and S. F. Fedoseeva. *Khim. Tverdogo Topliva* 6, 793-803(1937).—Bitumen, composed of wax, tar, fatty acids and hydrocarbons, can be extd. in 12 hrs. by means of equal parts by vol. of EtOH and C_6H_6 in a Soxhlet app. Twenty-one references.

A. A. Podgorny

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1281. METHOD OF DETERMINATION OF COKING CAPACITY OF COAL ON THE BASIS OF PETROGRAPHIC ANALYSIS AND DETERMINATION OF DEGREE OF METAMORPHISM. Titov N. G (Trudy Vsesoyuz. Konferentsii Anal. Khim., Akad. Nauk. S.S.S.R., 1944, 3, 116-20; Chem abst. 1944, 38, 5659). Combination of petrographic and dilatometric analysis of coal used in connection with the Sapozhnikov diagram is shown to be their volatile-matter content.

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TITOV, N. G.

Laboratory of the Origin and Chemistry of Coal, Institute of Mineral Fuels, Academy of Sciences, USSR (-1944-)

"Quantitative Elimination of Tetraethyl Lead From Ethylated Motor Fuels" Iz. Ak. Nauk. SSSR. Otdel. Tekh. Nauk. Nos. 10-11, 1944

BR-52059019

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755830001-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755830001-1

3028. QUANTITATIVE REMOVAL OF TETRA ETHYL LEAD FROM ETHYLIZED MOTOR FUELS. Titov N G (Bull acad sci U.R.S.S., Cl sci tech, 1944 690-694; J inst Petrol 1945, 31, 212A). Existing methods for removal of T.E.L. from gasolines tend to alter characteristics of the latter either chemicallyas by action of the reagent (e.g. Br.) used or else physically by loss of light ends in handling. It is shown that T.E.L. may be totally removed from fuels by agitating the latter with 4 vols. of glacial acetic acid in a sealed container the Pb in solution, is removed by water washing the gasoline. Estimation of Pb content of acid extract may be made either gravimetrically (as $PbSO_4$), or else volumetrically by titration with ammonium molybdate. For T.E.L. contents of about 3 Gm. T.E.L./kg. it is sufficient to take 20 ml. gasoline for analysis. Results are given of analyses of gasolines of know T.E.L. content by this method and also demonstrating that gasoline characteristics are substantially unaffected by treatment with glacial acetic acid.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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CA

21

Method of determination of coking capacity of coal on the basis of petrographic analysis and determination of degree of metamorphism. N. G. Titov. *Trudy Vsesoyuz. Konferentsii Anal. Khim., Akad. Nauk S. S. S. R.* 3, 116-20(1944).—Combination of petrographic and plastometric analysis of coal used in connection with the Sapozhnikov diagram is shown to be useful for detn. of coking properties of coal, i. e., their volatile-matter content.

G. M. Kosolapoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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F T

729. METHOD OF DETERMINING YIELD OF PRODUCTS OF SEMI-COKING OF COAL ON SMALL SAMPLE WEIGHTS. Titov, N. G. and Moroukhovitsch, R. I. (Bull. Acad. Sci. U.R.S.S., Cl. Sci. Tech., 1945, 931-936; Brit. Abstr., Cl, 1946, 245).

Comparable results are obtained in a shorter time by working on a 1-g. sample in a glass retort instead of the normal 50 g. in an Al retort. The method described is particularly useful when only small amounts of material are available. A glass retort 6-7 ml. capacity containing 1 g. of coal and placed during an experiment in a bath of Wood's metal delivers the products of heating into an inclined distillation flask, placed in a freezing mixture. The side tube of the flask is connected to a eudiometer. The temperature of the bath is gradually raised from 100° (the temperature at which the retort is inserted) to 500-510° during ½ hr, and then kept at this temperature for 10-15 min. From the weights of the retort and flask before and after the heating the weights of coke and tar + water are found. To determine water

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dioxan (or other liquid which mixes with water and does not react with CaC_2) is m xed with the tar, the mouth of the flask is fitted with a vessel for delivering CaC_2 (1-1.5g.), and the outlet is connected with a Hg eudiometer to measure the acetylene generated by the action of water on the added CaC_2. Low-molecular fatty acids act like water but do not cause serious error in presence of the tar bases. The alternative method of distillation with xylene gives errors since volatile organic acids, acetone, etc. distil over with the water.

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A mercury aspirator of a new type. N. G. Titov. *Bull. acad. sci. U.R.S.S., Classe sci. tech.* 1946, 311-12.—A new type of Hg aspirator is used for detection of poisonous gases in a portable lab. It is compact and can absorb any quantity of polluted air. The aspirator consists essentially of 2 pearlike glass bulbs communicating through a thin glass tube. The 2 bulbs are connected on each side by glass tubes, one of which leads to a container filled with an absorbing matter and the other of which opens to the air. The upper bulb is filled with Hg that drops into the lower bulb, displacing the air which had penetrated through the absorber. The purified air passes into the atm. When the lower bulb is full of Hg, the app. is turned through 180° and the operation continues. The rotation can be carried out either by hand or with the aid of a clock mechanism. The velocity of the air depends on the diam. of the connecting tube between the 2 bulbs.

N. Goldowski

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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E

925. SAPROPELE COALS OF MOSCWO BASIN AND EFFECT OF THEIR PETROGRAPHIC CHARACTER ON YIELD AND COMPOSITION OF LIGHT TAR DISTILLATE. Titov, N. G., Federovskaya, N. P. and Tantsyrev, I. N. (Izvest. Akad. Nauk S.S.S.R., Otdel. Tekh. Nauk (Bull. Acad. Sci. U.S.S.R., Sect. Tech. Sci), 1947, 835-842; abstr. in Chem. Abstr., 1949, vol. 43, 7207).

The yield of gasoline and kerosene ranged from 5.2 to 15.4%, based on the dry weight of the coal, depending on the degree of enrichment with sapropele material. The oil fraction varied from 1.8 to 0.5%. The yields were to some extent dependent on the ratio of humic to sapropele components in the coal. The yield of semicoke varied from 62.3 to 36.1%, with the related ash content from 51.5 to 26.9%.

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CA

21

Genetic classification parameters of brown coals and lignites. N. G. Titov, A. V. Zharkova, and L. A. Borozdina (Akad. Nauk S.S.S.R.), *Izvest. Akad. Nauk S.S.S.R., Otdel. Tekh. Nauk* 1948, 359-66. Brown coals from various deposits and a sample of lignite were analyzed to det. their method of formation. The samples of brown coal were centrifuged with a mixt. of CCl_4 and benzene to sep. admixed sand and clay, and the org (supernatant) portion was ashed. The ash in all cases was characterized by a high content of CaO (12.21-26.33%) and SO_3 (12.82-19.37%). The ash of untreated lignite contained 64.48% CaO and 16.50% SO_3. The Ca was present in the coals and lignite as Ca salts of humic acids, which broke down during ashing at 150° and over to CaO. Combination of this with SO_3 accounted for the high S content of the ash. The brown coals and lignite were also characterized by a low org. N content. It is postulated that brown coals and lignite are formed in bogs whose waters are rich in dissolved gypsum, leading to the formation of Ca humates. Nancy Corbin

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21

Mineral composition of peat water and its relation to some properties of the peat. N. G. Titov and A. V. Zharkova. *Izvest. Akad. Nauk S.S.S.R., Otdel. Tekh. Nauk.* 1948, 643–8; cf. *C.A.* 44, 3235*e*.—The compn. of peat was shown to depend on the mineral content of the water in the peat bogs. With high gypsum concn. of the water, peat had low bitumen and high ash content, while with low gypsum concn. the reverse was true. This was accounted for by the presence of Ca humates in the high-ash peat.

Nancy Corbin

1951

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TITOV, N. G., SHISHAKOV, N. V. and TAYTS, YE. M.

"Methods for the Evaluation of Coals as Raw Material for Industrial Purposes" (Metoda Otsenki Iskopayemykh ugley dlya promishlennovo ispol'zovaniye) Ugletekhizdat, 1949.

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TITOV, N. G.

USSR/Fuels - Coals, Classification Sep 51

"Concerning Industrial-Genetic Classification of Humic Coals," N. G. Titov

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 9, pp 1335-1344

Suggests classification system which considers formation of basic humic coals in respect to: character of initial vegetable material, watering condition of swamp and character of mineral medium of peat bog, and effect of raised temp and pressure on submerged peat. Discusses synthesis processes of bituminous products during peat period due to chem interaction of sep components of humus. Submitted 27 Jan 51.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755830001-1

TITOV, N.G.

USSR/ Mining - Chemical technology

Card 1/2 Pub. 22 - 35/51

Authors : Titov, N. G.; Khrisanfova, A. I.; Kanavets, P. I.; and Smirnov, R. N.

Title : Certain properties of coal, dangerous on account of sudden discharges

Periodical : Dok. AN SSSR 101/2, 327-329, Mar 11, 1955

Abstract : Certain chemical characteristics of coal considered dangerous on account of sudden discharges of coal and gas are analyzed. Chemical and thermographic investigations showed that not all coal layers hava a high peroxide number and exothermal effects characteristic for the decomposition of peroxides. Considered dangerous are such coal layers as contain large amounts of peroxides.

Institution : .....

Presented by: Academician A. A. Skochinskiy, December 3, 1954

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755830001-1

Periodical : Dok. AN SSSR 101/2, 327-329, Mar 11, 1955

Card 2/2 Pub. 22 - 35/51

Abstract : The heat liberated during decomposition of labile peroxides as well as CO_2, CO and H_2O cause intensive desorption of gases absorbed by the coal, thus initiating a gas discharge. A method of neutralizing dangerous coal layers underground is recommended. Eight references: 5 USSR and 3 English (1897-1953). Table graphs.

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TITOV, Nikolay Georgiyevich, doktor khimicheskikh nauk; KOLOMIYTSEVA, O.I., redaktor; YUSFINA, N.L., tekhnicheskiy redaktor

[Coal and its uses] Ugol' i ego ispol'zovanie. Moskva, Gos. izd-vo kul'turno-prosvetit. lit-ry, 1956. 45 p. (MLRA 9:12)
(Coal)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755830001-1

USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Solid Mineral Fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62509

Author: Titov, N. G., Khrisanfova, A. I., Kanavets, P. I., Smirnov, R. N.

Institution: None

Title: Characteristics of Coal Involving Potential Hazards of Sudden Flareback

Original Periodical: Khimiya i tekhnologiya topliva, 1956, No 1, 43-49

Abstract: Investigation of coal samples from 16 seams of the Donets fields was conducted by thermographic analysis, determination of microhardness andheat of damping and also of peroxide number. It is shown that coal from different blocks of the same seam differs in physical chemical and physicochemical properties as well as in composition and content of peroxides (P). On heating of P containing coal there is observed occurrence of exothermic effects at relatively low temperatures (even at 36°), which is due to decomposition of P,

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755830001-1

USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Solid Mineral Fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62509

Abstract: the latter being associated with evolution of heat and changes in surface characteristics of the coal and is capable of inducing intensive desorption of the sorbed gases throughout the entire bulk of the coal that may constitute a cause of flareback. The conclusion is reached that coal involving greatest hazards of flareback must be that of low moisture and high P content having a low temperature of decomposition.

Card 2/2

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755830001-1

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5, pp 134-135 (USSR) 15-57-5-6638

AUTHOR: Titov, N. G.

TITLE: The Natural Conditions of Forming Humic Coals of Different Quality (K voprosu ob usloviyakh obrazovaniya v prirode gumusovykh ugley razlichnykh kachestv)

PERIODICAL: Tr. Labor. geol. uglya. AN SSSR, 1956, Nr 6, pp 74-82.

ABSTRACT: The author examines the basic factors that may have a decisive influence on the formation of any particular peat and coal. Decomposition of the original organic substance and synthesis of new substances take place in peat bogs. The best conditions for promoting these reactions are sufficient water supply and low calcium-salt mineralization in the water. Humic acids, among the principal products of plant decomposition, are the chief components of peat. These constituents contain active carboxyl and carbonyl groups and phenol hydroxyl,

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755830001-1

The Natural Conditions of Forming Humic Coals (Cont.) 15-57-5-6638

which determine the ease of reaction with sugar, amino acids, aldehydes, and which produce material that will give a molten non-volatile residue and a high yield of tar during coking and will also be soluble in organic liquids. These products are the parent material of the vitrinites in caking coals. Calcium and humic acids produce insoluble salts, removing the acids from the sphere of reaction. Ferrous oxide, on the other hand, gives soluble salts and may facilitate the bituminization of the humus. Weakly mineralized waters in the upper part of the swamp favor the synthesis reaction. Strong mineralization of the waters in the lower parts of the peat bogs containing gypsum hinders this reaction. The content of soluble organic substances in the waters of the peat bog is inversely proportional to the quantity of CaO dissolved in them. Examples of coal that were formed without bituminization of the humus are the earthy brown coals (southern Ural type), the lustrous brown coals (Chelyabinsk type), and the non-caking coals (the dull type from the Prokop'yevsk-Kiselevsk deposits in the Kuzbas). Coals that form under conditions favorable for bituminization are capable of melting during heating and of giving a

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mechanically strong coke. Numerous factors, which act on coal during the course of geologic time, impose their marks on the basic forms and lead to various types of coal. With increased coalification, the differences between initial coals disappear and at the anthracite stage are almost imperceptible. As an example, the coals from the Balakhonka series in the Prokop'yevsk-Kiselevsk deposit show that there was a sharp decrease in yield of volatiles but an insignificant change in the organic mass during metamorphism. This relationship is explained by the development of complex structures in the substance by increasing the compressibility of the nuclear part and by decreasing the lateral branches. Similar changes in the structure of peat and coal are produced by the oxidation of free or combined oxygen. With extensive oxidation (1 to 10 percent ferric oxide at 150°), the substance in coal loses its ability to cake. Mineral substances added to the coal and higher temperatures existing in the interior of the earth are active catalyzing agents in changing the structure of coal, and the depth at which these changes occur determines, to a considerable degree, the natural occurrence of any particular kind of coal.

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A. N. G.

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VITOV N.G

graphic analysis of the Schotten-Baumann method showing [illegible]

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ABRAMOV, S.K., kand.tekhn.nauk; AVERSHIN, S.G., prof., doktor tekhn.nauk; AMMOSOV, I.I., doktor geol.-min.nauk; ANDRIYEVSKIY, V.D., inzh.; ANTROPOV, A.N., inzh.; AFANAS'YEV, B.L., inzh.; BERGMAN, Ya.V., inzh.; BLOKHA, Ye.Ye., inzh.; BOGACHEVA, Ye.N., inzh.; BUKRINSKIY, V.A., kand.tekhn.nauk; VASIL'YEV, P.V., doktor geol.-min.nauk; VINOGRADOV, B.G., inzh.; GOLUBEV, S.A., inzh.; GORDIYENKO, P.D., inzh.; GUSEV, N.A., kand.tekhn.nauk; DOROKHIN, I.V., kand.geol.-min.nauk; KALMYKOV, G.S., inzh.; KASATOCHKIN, V.I., doktor khim.nauk; KOROLEV, I.V., inzh.; KOSTLIVTSEV, A.A., inzh.; KRATKOVSKIY, L.F., inzh.; KRASHENINNIKOV, G.F., prof. doktor geol.-min.nauk; KRIKUNOV, L.A., inzh.; LEVIT, D.Ye., inzh.; LISITSA, I.G., kand.tekhn.nauk; LUSHNIKOV, V.A., inzh.; MATVEYEV, A.K., dots., kand.geol.-min.nauk; MEPURISHVILI, G.Ye., inzh.; MIRONOV, K.V., inzh.; MOLCHANOV, I.I., inzh.; NAUMOVA, S.N., starshiy nauchnyy sotrudnik; NEKIPELOV, V.Ye., inzh.; PAVLOV, F.F., doktor tekhn.nauk; PANYUKOV, P.N., doktor geol.-min.nauk; POPOV, V.S., inzh.; PYATLIN, M.P., kand.tekhn. nauk; RASHKOVSKIY, Ya.E., inzh.; ROMANOV, V.A., prof., doktor tekhn. nauk; RYZHOV, P.A., prof., doktor tekhn.nauk; SELYATITSKIY, G.A., inzh.; SPERANSKIY, M.A., inzh.; TERENT'YEV, Ye.V., inzh.; TITOV, N.G., doktor khim.nauk; GOKAREV, I.F., inzh.; TROYANSKIY, S.V., prof., doktor geol.-min.nauk; FEDOROV, B.D., dots., kand.tekhn.nauk; FEDOROV, V.S., inzh. [deceased]; KHOMENTOVSKIY, A.S., prof., doktor geol.-min.nauk; TROYANOVSKIY, S.V., otvetstvennyy red.; TERPIGOREV, A.M., red.; KRIKUNOV, L.A., red.; KUZNETSOV, I.A., red.; MIRONOV, K.V., red.; AVERSHIN, S.G., red.; BURTSEV, M.P., red.; VASIL'YEV, P.V., red.; MOLCHANOV, I.I., red.; RYZHOV, P.A., red.; BALANDIN, V.V., inzh., red.; BLOKH, I.M., kand. tekhn.nauk, red.; BUKRINSKIY, V.A., kand.tekhn.nauk, red.; VOLKOV, K.Yu., inzh., red.; VOROB'YEV, A.A., inzh., red.; ZVONAREV, K.A., prof. doktor tekhn.nauk, red.

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ABRAMOV, S.K.--- (continued) Card 2.

ZDANOVICH, V.G., prof., doktor tekhn.nauk, red.; IVANOV, G.A., doktor geol.-min.nauk, red.; KARAVAYEV, N.M., red.; KOROTKOV, G.V., kand.geol.-min.nauk, red.; KOROTKOV, M.V., kand.tekhn.nauk, red.; MAKKAVEYEV, A.A., doktor geol.-min.nauk, red.; OMEL'CHENKO, A.N., kand.tekhn.nauk, red.; SENDERZON, E.M., kand.geol.-min.nauk, red.; USHAKOV, I.N., dots., kand. tekhn.nauk, red.; YABLOKOV, V.S., kand.geol.-min.nauk, red.; KOROLEVA, T.I., red.izd-va; KASHAYKINA, Z.I., red.izd-va; PROZOROVSKAYA, F.L., tekhn.red.; NADEINSKAYA, A.A., tekhn.red.

[Mining; an encyclopedia handbook] Gornoe delo; entsiklopedicheskii spravochnik. Glav. red. A.M.Terpigorev. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po ugol'noi promyshl. Vol.2. [Geology of coal deposits and surveying] Geologiia ugol'nykh mestorozhdenii i marksheiderskoe delo. Redkolegiia tom S.V.Troianskiy. 1957. 646 p. (MIRA 11:5)

1. Chlen-korrespondent AN SSSR (for Karavayev)
(Coal geology--Dictionaries)

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ILTOV, N. (...

Card 2

AUTHOR: None Given.

24-12-24/24

TITLE: Jubilee Sessions of the Scientific Institutes of the Technical Sciences Division. (Yubileynyye nauchnye zasedaniya Institutov Otdeleniya Tekhnicheskikh Nauk)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1957, No.12, p.100. (USSR)

ABSTRACT: In October-November, 1957 various scientific sessions were held commemorating the 40th anniversary of the Soviet Revolution.

Institute of Mining. Academician L. D. Shevyakov read a paper on the mining science in the U.S.S.R. during the last forty years;

A. P. Sudoplatov read a paper on "Development of the Technology of Underground Coal Mining in the U.S.S.R.";

N. V. Mel'nikov read the paper "Development of Open Cast Mining in the Soviet Union";

M. I. Aroshkov read the paper "Scientific and Technical Progress in the Soviet Union during the Last Forty Years in the Field of Working Ore Deposits";

I. N. Plaksin read the paper "Beneficiation of Useful Minerals in the Soviet Union".

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Jubilee Sessions of the Scientific Institutes of the Technical Sciences Division. 24-12-24/24

Institute of Mined Fuels. N. G. Titov read the paper "Forty Years of Soviet Science Relating to Solid Fuel";
K. I. Syskov read the paper "Soviet investigations of coking coal";
N. V. Lavrov read the paper "Soviet Research on Combustible Gases";
T. A. Kukharenko read the paper on the "Successes of Soviet Scientists in Studying the Chemical Structure and the Origin of Solid Mined Fuels";
N. M. Karavayev read the paper "Successes of Soviet Science in Obtaining Chemical Products and Liquid Fuel from Solid Fuel".

Institute of Mechanical Engineering. After the opening address of A. A. Blagonravov, Academician V.I.Dikushin dealt with "Automation of Technological Processes in Engineering";
F. S. Dem'yanyuk dealt with "Fundamental Problems of Automation of Technological Processes";
A. Ye. Kobrinskiy dealt with "Work of the Institute of Mechanical Engineering, Ac.Sc. U.S.S.R. in the Field of Programmed Control of Metal Cutting Machine Tools";
N. I. Levitskiy dealt with "The Theory of Synthesis of Mechanisms".

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Jubilee Sessions of the Scientific Institutes of the Technical Sciences Division. 24-12-24/24

Institute of Metallurgy imeni A. A. Baykov.
I. P. Bardin dealt with the "Technical Progress of Ferrous Metallurgy";
D. M. Chizhikov dealt with "Forty years of Soviet Metallurgy".
Institute of Mechanics.
P. Ya. Kochin dealt with the "Development of the Theory of Filtration in the Soviet Union";
V. Z. Vlasov dealt with "Modern Investigations in the Field of the Theory of Shells and Their Importance in Engineering and Civil Engineering";
A. A. Movchan dealt with "Auto-oscillation of plates in a flow";
Kh. A. Rakhmatulin dealt with "Investigation of Sectionally Stationary Wave Processes in Continuous Media";
V. V. Sokolovskiy dealt with "The Present State of the Statics of Loose Media and its Application to Technical Problems".
Oil Institute. N. I. Titkov dealt with the "Scientific Results of the Activity of the Oil Institute"

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24-12-24/24

Jubilee Sessions of the Scientific Institutes of the Technical Sciences Division.

Academician S. I. Mironov dealt with "Development of Oil Geology During the Last Forty Years";
M. F. Mirchink dealt with the "Increase of the Oil Resources of the Soviet Union During the Last Forty Years";
Academician A. V. Topchiyev dealt with "Certain Problems of the Oil-Chemical Synthesis";
A. P. Krylov dealt with the "Fundamental Principles of a Rational Working of Oil Deposits".

Institute of Radio Engineering and Electronics.

The Vice Minister for Telecommunications, Z. V. Topuria dealt with the "Development of Communications During the Forty Years of Soviet Rule", whilst Yu. I. Kaznacheyev dealt with "Wide-band long distance communications on wave guides of circular cross section".

Power Institute imeni G. M. Krzhizhanovskiy.

V. I. Veyts dealt with "Power Generation as a Factor of Developing the National Economy";
Academician M. A. Mikheyev dealt with the "Development of the Science of Heat Transfer During the Last Forty Years";

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Jubilee Sessions of the Scientific Institutes of the Technical Sciences Division. 24-12-24/24

E. A. Meyerovich dealt with "The Development of General Methods of Theoretical and Experimental Electrical Engineering in the Work of the Power Research Institute";
M. A. Styrikovich dealt with the "Fundamental trends of the Thermal Power Stations in Conjunction with the Development of the Fuel Bases of the Soviet Union";
Z. F. Chukhanov dealt with the "Power Utilisation of Fuel";
G. N. Kruzhilin dealt with "Power Stations with Water Pool Atomic Reactors";
I. M. Markovich dealt with "Long Distance Power Transmission and Power Systems".

Institute of Automation and Telemechanics.

V. A. Trapeznikov dealt with the "Successes of Automation and Telemechanics During the Last Forty Years".

AVAILABLE: Library of Congress.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755830001-1

SEMENOV, N.N., akademik; ARBUZOV, A.Ye., akademik; MAMEDALIYEV, Yu.G.; KARGIN, V.A., akademik; TITOV, N.G., doktor khim.nauk; OBOLENTSEV, R.D., doktor khim.nauk; IMSHENETSKIY, A.A.; SISAKYAN, E.M.

Discussion of the report. Vest. AN SSSR 28 no.8:19-26 Ag '58. (MIRA 11:9)

1. Chlen-korrespondent AN SSSR (for Mamedaliyev, Imshenetskiy, Sisakyan).

(Chemistry, Organic--Synthesis)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755830001-1

TITOV, Nikolay Georgiyevich; GARBER, T.N., red.izd-va; SHKLYAR, S.Ya., tekhn.red.; KOROVENKOVA, Z.A., tekhn.red.

[Utilization of coal in the chemical industry] Ispol'zovanie uglia v khimicheskoi promyshlennosti. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1959. 33 p. (MIRA 13:1)
(Coal) (Chemical industries)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755830001-1

KARAVAYEV, N.M., otv.red.; TITOV, N.G., doktor khimicheskikh nauk, otv.red.; BANKVITSER, A.L., red.izd-va; KUZ'MIN, I.F., tekhn.red.

[Genesis of solid fuels] Genezis tverdykh goriuchikh iskopaemykh. Moskva, 1959. 358 p. (MIRA 12:6)

1. Akademiya nauk SSSR. Institut goryuchikh iskopayemykh.
2. Chlen-korrespondent AN SSSR; Institut goryuchikh iskopayemykh AN SSSR (for Karavayev).
(Coal geology) (Peat) (Oil shales)

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11(7) PHASE I BOOK EXPLOITATION SOV/2996

Akademiya nauk SSSR. Institut goryuchikh iskopayemykh

Genezis tverdykh goryuchikh iskopayemykh (Genesis Of Solid Fuels) Moscow, AN SSSR, 1959. 358 p. Errata slip inserted. 2,000 copies printed.

Sponsoring Agency: Vsesoyuznoye khimicheskoye obshchestvo im. D. I. Mendeleyeva. Moskovskoye otdeleniye.

Resp. Eds.: N. M. Karavayev, Corresponding Member, USSR Academy of Sciences, and N. G. Titov, Doctor of Chemical Sciences; Ed. of Publishing House: A. L. Pankratov; Tech. Ed.: I. F. Kuz'min.

PURPOSE: This collection of articles is intended for geochemists, geologists, and other specialists interested in the genesis of solid mineral fuels.

COVERAGE: The collection of papers on the genesis of solid mineral fuels has been prepared for presentation at the 2nd All-Union Conference on this subject. The formation of humic acids and peat from the decomposition of microorganisms and plants is discussed in connection with studies on the origin of hard coal and brown coal and on the role of certain mineral components in the coal-forming process. The chemical composition of peat and the organic mass of coal [illegible] analyzed and shown in a number of tables. Estonian "Kukkersite" oil shales are analyzed as are the brown coals of the Dnepropetrovsk basin. Metamorphism and carbonization of coal found in different parts of the Urals and the Ukrainian SSR are also discussed. The transformation of parent matter into combustible minerals is analyzed. References accompany individual articles.

Rammelmyr, Kh. T. Genesis of Estonian Kukkersite Oil Shale 69

Fomina, A. S. On the Question of the Origin of Baltic Kukkersite Oil Shale 77

Karavayev, N. M., and I. A. Vikman. Lignite and Initial Stages of Coal Formation 92

Syshchyov, V. T. Origin of Brown Coal Found in the Dnepropetrovsk Basin of the Ukrainian SSR 106

Chernousov, Ya. M. Irregular Carbonization of Mesozoic Coal Found on the Eastern Flank of the Central and Northern Urals 121

Bogolyubova, L. I. Petrographic and Chemical Characteristics of Some Types of Coal From Volchanskoye and Bogoslovskoye Deposits 137

Kiryukhin, V. V. Conditions of Formation of Slightly Carbonized Coal From Southern Ural Brown Coal Basin 143

Kuznetsov, V. A. Metamorphism of Brown Coal From Bogoslovskoye and Veselovskoye Deposits of the Eastern Flank of the Northern Urals 160

Bluderov, A. I. Geologic Conditions of Transformation of Coal Substance in the Southeastern Part of the Russian Platform 166

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Zabrynnyy, D. T. Evolution of Humic Coal During Metamorphism 189

Shternberg, L. Ye. Changes in Microscopic Characteristics of Clarain Coal of the Donbass During Metamorphism 198

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Gebler, I. V. Organic Sulfur in Coal 241

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Farov, N. I. Characteristics of the Process of Transformation of Parent Matter Into Present Combustible Minerals and the Connection of These Characteristics With the Principal Properties of Combustible Minerals 268

Ammosov, I. I. Genetic Features of the Coal Substance as Ascertained by Petrographic Findings 295

Zabrodin, V. I. Chemical Nature of the Basic Organic Mass of Hard and Brown Coal and Changes During Metamorphism 309

Kukharenko, T. A. Changes in the Structure and Properties of Humic Acids During the Coal-forming Process 319

Titov, N. G. Role of Mineral Elements in the Coal-forming Process 338

Kamzalskiy, V. S., A. L. Rubinshteyn, and A. K. Yurovskiy. Genesis of Organic Sulfurous Compounds Contained in Coal 344

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YUROVSKIY, Abram Zinov'yevich; TITOV, N.G., doktor khim.nauk, zaslu-
zhennyy deyatel' nauki i tekhniki RSFSR, otv.red.; NIKOLAYEVA,
I.N., red.izd-va; POLEHOVA, T.P., tekhn.red.

[Sulfur in coal] Sera kamennykh uglei. Moskva, Izd-vo Akad.nauk
SSSR, 1960. 294 p.
(Coal) (Sulfur) (MIRA 13:5)

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TAYTS, Yefim Moiseyevich; TITOV, Nikolay Georgiyevich; SHISHAKOV, Nikolay Vasil'yevich; KARPOVICH, V.L., otv. red.; KACHALKINA, Z.I., red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Methods of analyzing and testing coal for use as raw material in industry] Metody analiza i ispytaniia uglei kak syr'ia dlia promyshlennogo ispol'zovaniia. Izd.2., perer. i dop. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 314 p. (MIRA 15:2)

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(Gas industry--Equipment and supplies)
(Coal--Analysis)

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TITOV, N.G.

M.V.Lomonosov and the science of fuel. Vop.ist.est.i tekh. no.12:129-131 '62. (MIRA 15:4)
(Lomonosov, Mikhail Vasil'evich, 1711-1765) (Coal geology)

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TITOV, Nikolay Grigor'yevich, polkovnik; SHARPILO, P.N., polkovnik, red.; KUZ'MIN, I.F., tekhn. red.

[Achievement after achievement; notes of a commander on socialist competititon] Za rubezhom - rubezh; zametki komandira o sotsialisticheskom sorevnovanii. Moskva, Voen.izd-vo M-va oborony SSSR, 1961. 91 p. (MIRA 14:12)

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FREYDZON, Isaak Rubinovich. Prinimali uchastiye: ARKHANGEL'SKIY, Ye.A.; ERENEV, V.F.; FATEYEV, A.V., doktor tekhn. nauk, retsenzent; TITOV, N.I., nauchn. red.; NIKITINA, M.I., red.

[Mathematical modeling of the automatic control systems of ships] Matematicheskoe modelirovanie sudovykh sistem avtomaticheskogo upravleniia. Leningrad, Sudostroenie, 1964. 423 p. (MIRA 18:2)

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TITOV, N.K.

I. Kh. Neviazhskii; on the occasion of the 60th anniversary of his birth. Radiotekh. i elektron. 3 no.4:582-584 Ap '58. (Neviazhskii, Isaak Kharitonovich, 1898-)

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TITOV, N. X. and VEYNBERG, A. Y.

"Pertaining to the Stabilization of Heterodyne Frequency in an Uninterrupted [illegible]," [illegible]

[illegible]

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USSR/Electronics-Interference

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Card 1/1 Pub. 90-2/11

Author : Popov, A. N., and Titov, N. K., Active Members, VNORiE

Title : Expansion in a Fourier Series of the Envelope of the Sum of Two Amplitude-Modulated Oscillations

Periodical : Radiotekhnika, 10, 22-27, Aug 1955

Abstract : A method is described for expansion of the sum of two AM oscillations (suitable for any amplitude or modulation index of either oscillation) in a Fourier series. Necessary formulas for calculation are derived. It is demonstrated that demodulation of a weak by a strong signal is not related to the detection process. For practical purposes the obtained formulas make it possible to compute the amplitude of all combination oscillations occurring when there is mutual interference between two broadcast radio stations, no matter what their modulation indexes. G. D. Solov'yeva made computations for the curves reproduced. Graph. Four references: 1 USSR (1935)

Institution : All-Union Scientific and Technical Society of Radio Engineering and Electric Communications imeni A. S. Popov (VNORiE)

Submitted : June 30, 1955

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