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Laboratory scale O gasification experiments on Moscow brown coal that had been preheated to 150, 250, 350, and 550°. FOSSIL FUELS; IN-SITU METHOD; GASIFICATION; USSR; BROWN COAL; COAL GASIFICATION; OXYGEN; COMBUSTION HEAT; COAL GAS
- 04762 UNDERGROUND GASIFICATION OF FUELS. EFFECT OF THE CONCENTRATION OF OXYGEN IN THE BLAST ON THE RATE OF MOTION OF THE GASIFICATION ZONE IN UNDERGROUND GASIFICATION. Pitin, R.N.; Cheredkova, K.I. Tr. Inst. Goryuch. Iskop., Akad. Nauk SSSR; 13: 61-70(1960).
Rise in concentration of O in blast increases rate of motion in gasification zone. FOSSIL FUELS; IN-SITU METHOD; GASIFICATION; USSR; OXYGEN; MOTION; ZONES
- 04763 UNDERGROUND GASIFICATION OF FUELS. MOTION OF THE GASIFICATION ZONE AS A FUNCTION OF FUEL MOISTURE IN UNDERGROUND GASIFICATION. Pitin, R.N.; Cheredkova, K.I. Tr. Inst. Goryuch. Iskop., Akad. Nauk SSSR; 13: 71-4(1960).
Decrease in moisture content from 30 to 9% caused rate of advance of gasification zone of 15-fold. FOSSIL FUELS; IN-SITU METHOD; GASIFICATION; USSR; ZONES; MOTION; MOISTURE; BROWN COAL; COAL GASIFICATION
- 04764 UNDERGROUND GASIFICATION OF FUELS. UNDERGROUND GASIFICATION OF COAL UNDER HIGH PRESSURE. Al'tshuler, V.S.; Lavrov, N.V.; Pitin, R.N.; Farberov, I.L.; Shafir, G.S. Tr. Inst. Goryuch. Iskop., Akad. Nauk SSSR; 13: 75-82(1960).
Pressures ranged from 1-50 atm; for optimum results, pressure should not exceed 20 atm. FOSSIL FUELS; IN-SITU METHOD; GASIFICATION; USSR; PRESSURE DEPENDENCE; COAL GASIFICATION
- 04765 UNDERGROUND GASIFICATION OF FUELS. UNDERGROUND GASIFICATION OF LISICHANSK COAL. Golger, S.P.; Derman, B.M.; Lavrov, N.V.; Farberov, I.L.; Federov, N.A. Tr. Inst. Goryuch. Iskop., Akad. Nauk SSSR; 13: 83-6(1960).
Use of O-enriched steam-air blast (66-74% O) resulted in gas containing 15% N, 40% CO₂, and 45% CO + H. FOSSIL FUELS; IN-SITU METHOD; GASIFICATION; USSR; DIAGRAMS; OXYGEN; STEAM; AIR; COAL GAS; PRODUCTION; COAL GASIFICATION
- 04766 UNDERGROUND GASIFICATION OF FUELS. EFFECT OF SOME TECHNOLOGICAL PARAMETERS OF THE UNDERGROUND GASIFICATION OF COAL ON THE AMOUNT OF GAS LEAKAGE. Pitin, R.N.; Miringof, N.S.; Levnevskii, V.S. Tr. Inst. Goryuch. Iskop., Akad. Nauk SSSR; 13: 103-14(1960).
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- 04767 UNDERGROUND GASIFICATION OF FUELS. DECREASING THE LEAKAGE OF BLAST AND GAS IN THE UNDERGROUND GASIFICATION OF MOSCOW BROWN COAL. Pitin, R.N. Tr. Inst. Goryuch. Iskop., Akad. Nauk SSSR; 13: 115-24(1960).
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- to drive off most of O compounds as CO₂ and H₂O; purpose was to develop methods for preparing low-rank coals for use in making liquid chemicals and gases of high calorific value. COAL; FLUIDIZED BED; USSR; COAL RANK; LIQUID PRODUCTS; GASEOUS PRODUCTS; COAL GAS; PRODUCTION; COMBUSTION HEAT
- 04769 UNDERGROUND GASIFICATION OF FUELS. DISTRIBUTION OF THE BLAST IN UNDERGROUND GASIFICATION OF FUELS. Pitin, R.N.; Ponnik, Y.A. Tr. Inst. Goryuch. Iskop., Akad. Nauk SSSR; 13: 131-43(1960).
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- 04770 UNDERGROUND GASIFICATION OF FUELS. METHOD FOR STUDYING GAS PRESSURES IN UNDERGROUND GAS GENERATORS BY USE OF RADIOISOTOPES. Petrenko, I.G.; Belyanova, E.M. Tr. Inst. Goryuch. Iskop., Akad. Nauk SSSR; 13: 144-52(1960).
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- 04771 UNDERGROUND GASIFICATION OF FUELS. CONTROL OF THE UNDERGROUND GASIFICATION OF COAL. Kirpichenko, I.P. Tr. Inst. Goryuch. Iskop., Akad. Nauk SSSR; 13: 153-7(1960).
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- 04772 UNDERGROUND GASIFICATION OF FUELS. PRODUCTS OBTAINED IN THE CONTINUOUS HEATING OF COAL WITH AN ELECTRIC CURRENT. Miroedova, E.V.; Farberov, I.L. Tr. Inst. Goryuch. Iskop., Akad. Nauk SSSR; 13: 158-63(1960).
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- 04774 GASIFICATION OF COAL FINES BY FLUIDIZATION. Jequier, J.; Longchambon, L.; van de Putte, G. Chim. Ind. (Paris); 83: 541-8(1960).
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Process inhibited owing to poor aerodynamics of fuel bed when coal fines fraction of 0-5 mm exceeds 5%. SOLIDS; GASIFICATION; FOSSIL FUELS; COAL GASIFICATION; COAL FINES; EQUIPMENT
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- 05019 SYNTHESIS GAS. Boyarkin, M.I.; Kaftanov, S.V.; Klyushnev, A.F.; Fedoseev, S.D. (to D. I. Mendeleev, Chemical-Technological Institute, Moscow). USSR Patent 186,608. 3 Oct 1966.
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- effectiveness of process and lower energy consumption. SYNTHESIS GAS; PRODUCTION; COAL GASIFICATION; BROWN COAL; STEAM; AIR; OXYGEN
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- 05136 MULTIPURPOSE RESEARCH PILOT PLANT FACILITY FEATURING BCR TWO-STAGE SUPER-PRESSURE GASIFICATION. PAPER NO. 3. Glenn, R.A. (Bituminous Coal Res., Inc., Monroeville, PA). American Chemical Society, Division of Fuel Chemistry. 160. ACS National Meeting, Chicago, IL, Sep 14-18, 1970. Washington, DC; American Chemical Society, Division of Fuel Chemistry (1970).
From 160. ACS National Meeting; Chicago, IL (14 Sep-18 Sep 1970).
Design studies only. COAL GASIFICATION; FLUIDIZED BED; CHARS; COAL; PRODUCTION; HIGH BTU GAS; SYNTHESIS GAS; CARBON MONOXIDE; PILOT PLANTS; DESIGN; RESEARCH PROGRAMS; HIGH PRESSURE
- 05137 DESIGN OF LIGNITE GASIFICATION PILOT PLANT. PAPER NO. 2. Brant, V.L. (Stearns-Roger Corp., Denver, CO); Marwig, U.D.; Phinney, J.A. (Consolidation Coal Co., Res. Div., Library, PA). American Chemical Society, Division of Fuel Chemistry. 160. ACS National Meeting, Chicago, IL, Sep 14-18, 1970. Washington, DC; American Chemical Society, Division of Fuel Chemistry (1970).
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Usin CO₂ acceptor process. COAL GASIFICATION; LIGNITE; CARBON DIOXIDE ACCEPTOR PROCESS; DOLOMITE; LIMESTONE; DESULFURIZATION; REMOVAL; HYDROGEN SULFIDES; FLUIDIZED BED; PILOT PLANTS
- 05138 STATUS OF THE HYGAS PILOT PLANT FOR