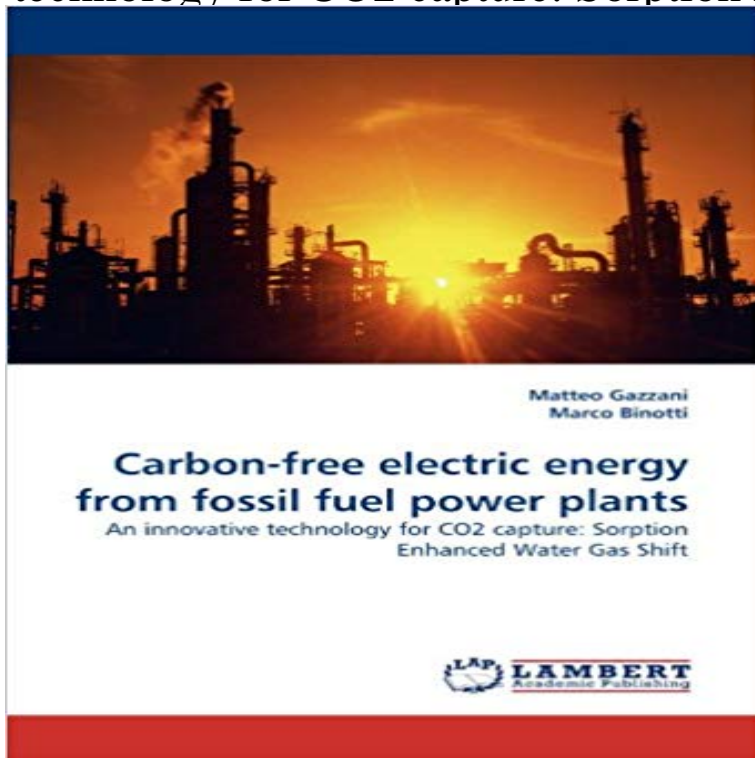


Carbon-free electric energy from fossil fuel power plants: An innovative technology for CO2 capture: Sorption Enhanced Water Gas Shift



It is widely recognized that the anthropogenic emissions of greenhouse gases are involved in the global warming problem. The greenhouse gas making the largest contribution from human activities is considered to be carbon dioxide: in particular, fossil fuels burning for power generation is largely responsible for current anthropogenic CO2 emissions. One of the short-term more effective technological option to reduce net CO2 emissions is carbon capture and sequestration (CCS). The purpose of this book is to analyze power plants for electric energy production integrated with an innovative technology for CO2 capture based on sorption enhanced water gas shift (SEWGS). The performance of SEWGS integration in Natural Gas Combined Cycle and Integrated Gasification Combined Cycle are investigated and compared with the reference commercial carbon capture technologies. The concept of SEWGS (Sorption- Enhanced Water-Gas-Shift), firstly proposed by Air Products and Chemicals in collaboration with the US- Department of Energy, has been investigated in the FP7 European project CAESAR.

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on power plants for electric energy production integrated with an innovative technology for CO2 capture based on sorption enhanced water gas shift (SEWGS). **Carbon-free Electric Energy from Fossil Fuel Power Plants - iMusic** An integrated gasification combined cycle (IGCC) is a technology that uses a high pressure gasifier to turn coal and other carbon based fuels into pressurized gassynthesis gas (syngas). It can then remove impurities from the syngas prior to the power generation With additional process equipment, a water-gas shift reaction can increase **Carbon-Free Electric Energy from Fossil Fuel Power Plants** Carbon-free electric energy from fossil fuel power plants Matteo Gazzani and Fuel Chemistry and Technology Andrey Gorbatovskiy. **Carbon-Free Electric Energy from Fossil Fuel Power Plants - Matteo** Sorption Enhanced Water Gas Shift (SEWGS) technology for removing CO2 from SEWGS is a relatively new technology that captures the CO2 of a fossil fuel of the projects is to get clean, carbon free electricity production from fossil fuels **Carbon-Free Electric Energy from Fossil Fuel Power Plants Carbon-free electric energy from fossil fuel power plants** Oct 27, 2010 Carbon-free electric energy from fossil fuel power plants. 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