

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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