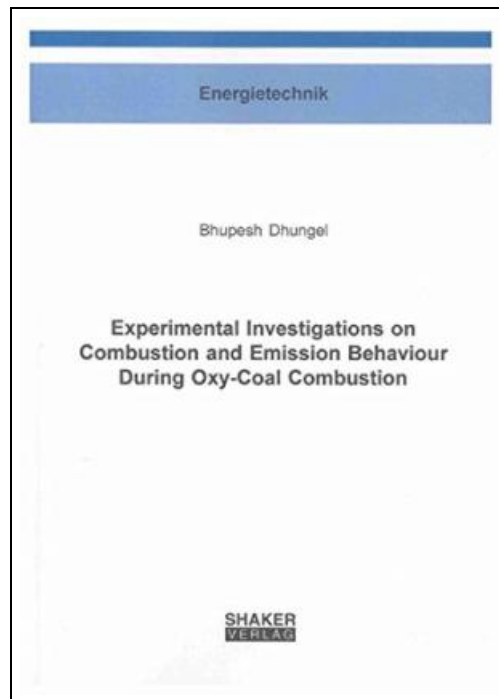


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Shaker Verlag Dez 2010, 2010. Taschenbuch. Condition: Neu. Neuware - As the most abundant non-renewable energy source available, coal has traditionally played a major role in ensuring the security of energy, and will continue to play a key role in the world energy mix. The burning of coal has however always been a subject of environmental concern. In recent years, the emission of green house gases and global climate change has emerged as the largest environmental challenge. As coal fired power plants are categorised among the least carbon efficient energy producer in terms of CO₂ emission per unit of electricity generated, an immediate technological response is anticipated. Although, improving the efficiency of coal fired plants can decrease CO₂ emissions to some extent, fossil fuel based carbon capture and storage technologies will have to bear the significant share in power generation, if reduction or even stabilisation of CO₂ emission is to be envisaged. One promising technology with a potential for near complete capture of CO₂ is the oxy-coal combustion process with flue gas recirculation. This technology is however still at an early stage of development, and until now there are no full-scale commercial plants based on this technology. The combustion of coal in this process takes place with almost pure oxygen and recycled flue gas resulting in a flue gas stream of almost pure CO₂, ready for geosequestration. The flue gas is recycled back into the furnace to control the temperature and maintain the heat flux profiles within the furnace. Research efforts are in progress for a better understanding of the oxy-coal combustion process. However, many issues still need to be addressed in order to obtain improved fundamental understandings. The primary objective of this study is therefore, a comprehensive and well-planned experimental investigation to further understand the emission and combustion behaviour during O₂/CO₂ combustion using a series of fuels, and is sub-divided into: I. Determination of combustion...

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