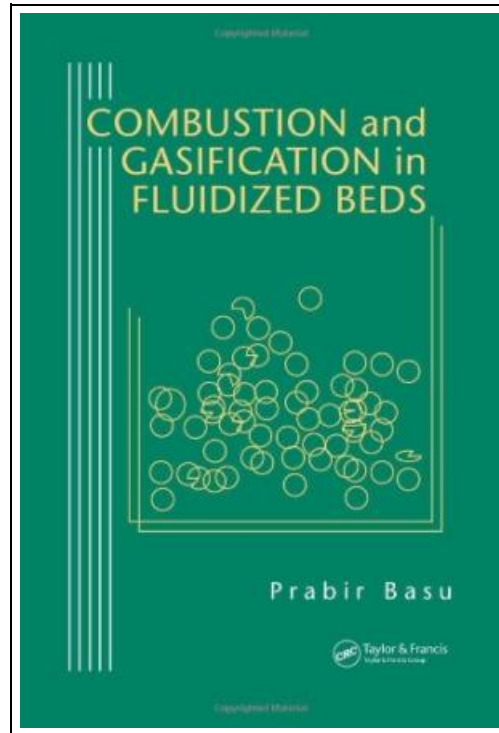


## Combustion and Gasification in Fluidized Beds



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## COMBUSTION AND GASIFICATION IN FLUIDIZED BEDS



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CRC/CBS Publishers & Distributors, 2006. Hardcover. Book Condition: New. Besides being one of the best Clean Coal Technologies, fluidized beds are also proving to be the most practical option for biomass conversion. Although the technology is well established, the field lacks a comprehensive guide to the design and operating principles of fluidized bed boilers and gasifiers. With more than 30 years of research and industrial experience, Prabir Basu answers this pressing need with *Combustion and Gasification in Fluidized Beds*. This book is a versatile resource that explains how fluidized bed equipment works and how to use the basic principles of thermodynamics and fluid mechanics in design while providing insight into planning new projects, troubleshooting existing equipment, and appreciating the capabilities and limitations of the process. From hydrodynamics to construction and maintenance, the author covers all of the essential information needed to understand, design, operate, and maintain a complete fluidized bed system. It is a must for clean coal technology as well as for biomass power generation. Beginning with a general introduction to fossil or biofuel conversion choices, the book surveys hydrodynamics, fundamentals of gasification, combustion of solid fuels, pollution aspects including climate change mitigation, heat transfer in fluidized beds, the design and operation of bubbling and circulating fluidized bed boilers, and various supporting components such as distributor grates, feeding systems, and gas-solid separators. INTRODUCTION Background Fluidized Bed Equipment Features of Fluidized Beds Fluidized Bed and Other Clean Coal Options HYDRODYNAMICS Regimes of Fluidization Fast Fluidized Bed Hydrodynamic Regimes in a CFB Hydrodynamic Structure of Fast Beds Gas-Solid Mixing Scale-Up FLUIDIZED BED GASIFICATION Types of Gasifiers Theory Effect of Operating Parameters on Gasification Effect of Feed Properties on Gasification Fluidized Bed Gasification Examples of Some Fluidized Bed Gasifiers Gas Cleaning Design Methods Modeling of Fluidized Bed Gasification Appendix 3A: Estimating Equilibrium...



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