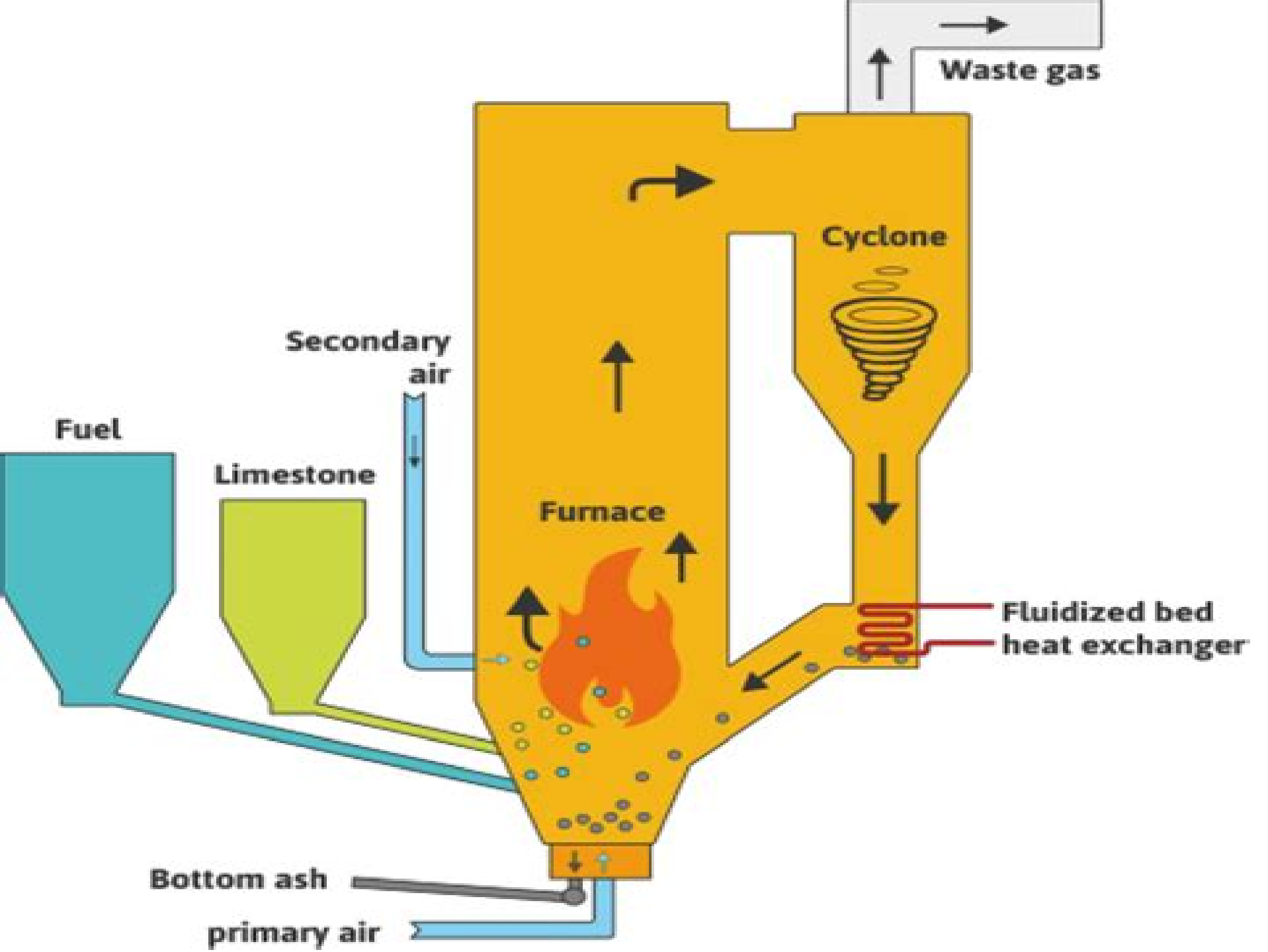




Sulphur Capture During Combustion Of Coal In Circulating Fluidized Bed Boilers

Prabir Basu, Jean François Large



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Circulating Fluidized Beds J.R. Grace, T.M. Knowlton, A.A. Avidan, 2012-12-06 Since the late 1970s there has been an explosion of industrial and academic interest in circulating fluidized beds. In part the attention has arisen due to the environmental advantages associated with CFB circulating fluidized bed combustion systems, the incorporation of riser reactors employing circulating fluidized bed technology in petroleum refineries for fluid catalytic cracking and to a lesser extent the successes of CFB technology for calcination reactions and Fischer Tropsch synthesis. In part it was also the case that too much attention had been devoted to bubbling fluidized beds and it was time to move on to more complex and more advantageous regimes of operation. Since 1980 a number of CFB processes have been commercialized. There have been five successful International Circulating Fluidized Bed Conferences beginning in 1985, the most recent taking place in Beijing in May 1996. In addition we have witnessed a host of other papers on CFB fundamentals and applications in journals and other archival publications. There have also been several review papers and books on specific CFB topics. However, there has been no comprehensive book reviewing the field and attempting to provide an overview of both fundamentals and applications. The purpose of this book is to fill this vacuum. **Pressurized Fluidized Bed Combustion** M. Alvarez Cuenca, E.J.

Anthony, 2012-12-06 Pressurized fluidized bed combustion (PFBC) is one of the newest of the coal based generation technologies available commercially. This authoritative volume contains an excellent balance of the theoretical and practical aspects of PFBC technology, including economics, the fundamental theory of plant design and sorbent characterization using the results obtained from a wide range of pilot scale and full scale demonstration units. *Fluidized Bed Combustion* Simeon Oka, 2003-09-16 A realization of recent clean energy initiatives, fluidized bed combustion (FBC) has quickly won industry preference due to its ability to burn materials as diverse as low grade coals, biomass and industrial and municipal waste. Fluidized Bed Combustion catalogs the fundamental physical and chemical processes required of bubbling fluidized beds before launching into application centered coverage of hot gas generator, incinerator and boiler concepts and design calculations for regime parameters and dimensions and all aspects of FBC operation. It enumerates the environmental consequences of fluidized bed processes and proposes measures to reduce the formation of harmful emissions. Pollutants from Combustion Christian Vovelle, 2013-11-11 This volume is based on the lectures presented at the NATO Advanced Study Institute (ASI) Pollutants Formation from Combustion: Formation Mechanisms and Impact on the Atmosphere, held in Maratea, Italy, from 13 to 26 September 1998. Preservation of the environment is of increasing concern in individual countries but also at continental or world scales. The structure of a NATO ASI, which involves lecturers and participants of different nationalities, was thought as especially well suited to address environmental issues. As combustion is known to substantially contribute to the damaging of the atmosphere, it was natural to concentrate the ASI program on reviewing the currently available knowledge of the formation mechanisms of the main pollutants liberated by combustion systems. In most

situations pollutants are present as trace components and their formation and removal is strongly conditioned by the chemical reactions initiated by fuel consumption Therefore specific lectures were aimed at defining precisely the general properties of combustion chemistry for gaseous liquid and solid fuels Physical factors can strongly affect the combustion chemistry and their influence was also considered An interesting peculiarity of this specific ASI was to complement the program with a substantial part concerned with the impact of the main combustion pollutants NO_x aromatics soot VOCs sulphur and chlorinated compounds on atmospheric chemistry

Circulating Fluidized Bed Technology Prabir

Basu, Jean François Large, 2013-10-22 Circulating Fluidized Bed Technology II is a result of a series of science related conferences in the 1980s The text contains various studies facts and discussions on fluidized beds The book begins by going through the rise and fall of circulating systems specifically fluid dynamics The chapter continues with a wider discussion of hydrodynamics which includes its scales particles and different math formulas In the several chapters that follow a thorough study of fluidized beds and its subtopics are presented which include particle behavior combustion heat transfer process reactors gas mixing parameters measurements and characteristics The variations of fluidized beds including the multisolid dual column and turbulent are also given The book serves as a very useful reference for undergraduates and postgraduates of physics chemistry and other related fields

Fluidized Bed Technologies for Near-Zero Emission Combustion and Gasification Fabrizio Scala, 2013-09-30

Fluidized bed FB combustion and gasification are advanced techniques for fuel flexible high efficiency and low emission conversion Fuels are combusted or gasified as a fluidized bed suspended by jets with sorbents that remove harmful emissions such as SO_x CO₂ capture can also be incorporated Fluidized bed technologies for near zero emission combustion and gasification provides an overview of established FB technologies while also detailing recent developments in the field Part one an introductory section reviews fluidization science and FB technologies and includes chapters on particle characterization and behaviour properties of stationary and circulating fluidized beds heat and mass transfer and attrition in FB combustion and gasification systems Part two expands on this introduction to explore the fundamentals of FB combustion and gasification including the conversion of solid liquid and gaseous fuels pollutant emission and reactor design and scale up Part three highlights recent advances in a variety of FB combustion and gasification technologies before part four moves on to focus on emerging CO₂ capture technologies Finally part five explores other applications of FB technology including FB petroleum refining and chemical production Fluidized bed technologies for near zero emission combustion and gasification is a technical resource for power plant operators industrial engineers working with fluidized bed combustion and gasification systems and researchers scientists and academics in the field Examines the fundamentals of fluidized bed FB technologies including the conversion of solid liquid and gaseous fuels Explores recent advances in a variety of technologies such as pressurized FB combustion and the measurement monitoring and control of FB combustion and gasification Discusses emerging technologies and examines applications of FB in other processes

Chemical Reactor Technology for Environmentally Safe Reactors and Products Hugo de Lasa, G. Dogammau, A.

Ravella, 2012-12-06 Chemical reactor engineering as a discipline has a central role to play in helping with the development of adequate strategies and technologies that can deal effectively with the concerns of today's society which are increasingly becoming attuned to the environment. The current challenge is how to adapt present processes and products to meet more rigorous environmental standards. *Chemical Reactor Technology for Environmentally Safe Reactors and Products* addresses these issues in three parts: I Fuels of the Future and Changing Fuel Needs; II Alternative Sources; III Emission Control. Chemical Reactor Safety and Engineering Attention is also paid throughout the text to the fundamental technological aspects of reactor engineering and to possible strategies for bridging knowledge gaps. *Coal Processing and Utilization* D.V. Subba

Rao, T. Gouricharan, 2016-05-05 This book is a direct outgrowth of classes that the authors gave over a period of three decades to a university audience taking a Mineral Beneficiation course as a major that included coal processing and utilization. It is designed to be used as a student's or layman's first introduction to coal processing and utilization, motivating the concepts. **Oxy-Fuel Combustion for Power Generation and Carbon Dioxide (CO₂) Capture** L. Zheng, 2011-02-26

Oxy-fuel combustion is currently considered to be one of the major technologies for carbon dioxide (CO₂) capture in power plants. The advantages of using oxygen (O₂) instead of air for combustion include a CO₂-enriched flue gas that is ready for sequestration following purification and low NO_x emissions. This simple and elegant technology has attracted considerable attention since the late 1990s, rapidly developing from pilot-scale testing to industrial demonstration. Challenges remain as O₂ supply and CO₂ capture create significant energy penalties that must be reduced through overall system optimisation and the development of new processes. *Oxy-fuel combustion for power generation and carbon dioxide (CO₂) capture* comprehensively reviews the fundamental principles and development of oxy-fuel combustion in fossil-fuel-fired utility boilers. Following a foreword by Professor J. N. M. B. R., the book opens with an overview of oxy-fuel combustion technology and its role in a carbon-constrained environment. Part one introduces oxy-fuel combustion further with a chapter comparing the economics of oxy-fuel vs. post-pre-combustion CO₂ capture, followed by chapters on plant operation, industrial-scale demonstrations, and circulating fluidized-bed combustion. Part two critically reviews oxy-fuel combustion fundamentals such as ignition and flame stability, burner design, emissions, and heat transfer characteristics, concluding with chapters on O₂ production and CO₂ compression and purification technologies. Finally, part three explores advanced concepts and developments such as near-zero flue gas recycle and high-pressure systems, as well as chemical looping combustion and utilisation of gaseous fuel. With its distinguished editor and internationally renowned contributors, *Oxy-fuel combustion for power generation and carbon dioxide (CO₂) capture* provides a rich resource for power plant designers, operators, and engineers, as well as academics and researchers in the field. *Comprehensively reviews the fundamental principles and development of oxy-fuel combustion in fossil-fuel-fired utility boilers. Provides an overview of oxy-fuel combustion technology.*

and its role in a carbon constrained environment Introduces oxy fuel combustion comparing the economics of oxy fuel vs post pre combustion CO₂ capture **Impact of Mineral Impurities in Solid Fuel Combustion** R. Gupta, T. Wall, L. Baxter, 2007-05-08 This book contains papers presented at the Engineering Foundation Conference on mineral matter in fuels held on November 27 1997 in Kona Hawaii The conference is one of a continuing series that was initiated by the CEGB Marwood Engineering Laboratories in 1963 The conference was to be eventually organised by the Engineering Foundation as the need for multi disciplinary work related to controlling ash effects in combustors became apparent The conference covers both the science and the applications The papers also present case histories particularly for current fuel technologies developments in advanced technologies for power generation and mathematical modelling of these processes Developments since 1963 have been slow but steady due to the complexity of the chemical and physical processes involved However the research presented here displays great improvement in our understanding of the mechanisms by which mineral matter will influence fuel use Steve Benson from EERC presented a review and current status of issues related to ash deposition in coal combustion and gasification The application of new analytical tools which have been detailed in the previous conferences is presented These include CCSEM as well as new techniques for characterising sintering of ash such as TMA image analysis X ray diffraction crystallography and thermal analysis The new analytical techniques were extended to encompass widely differing fuels such as biomass Ole H Larsen from ELSAM Denmark presented a review of these advanced techniques

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