
GAS-SOLID TRANSPORT

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Gas-solid Transport George E. Klinzing, 1981 *Phenomenology of Vertical Gas Solid Transport* Stephen T. Tuba, 1983
Particle-particle Interaction in Lean-phase Gas-solid Transport Joseph Henry Cutchin, 1983 **Gas-Solid Transport in a 0.0508 M Pipe at Various Inclinations with and Without Electrostatics** Craig A. Myler, ARMY MILITARY PERSONNEL CENTER ALEXANDRIA VA., 1985 The transport of solid particles by air through a 0.0508 m pipe was studied in vertical horizontal and 45 deg orientations Through control of the air humidity the effects of electrostatic charging was observed Pressure drop and particle velocities were measured Particles used included 79 micrometer 125 micrometer and 450 micrometer glass beads and 128 micrometer Plexiglas beads Analysis of particle velocity pressure drop fluctuation electrostatic pressure drop choking and saltation was performed Visual observations of the flow patterns and behavior were made A linear stability analysis for the three orientations was performed Modelling of Particle Agglomeration in Gas-solid Transport Sridhar Desikan, 1993 Study of the transport of particles via gas and development of a model to illustrate particle agglomeration to allow further consideration of the interaction of particles being transported and the medium used to transport them Stability Analysis of Gas-solid Transport with Electrostatics Abdolreza Zaltash, 1985 *Gas-solid Transport and Reaction Via Intervened Evaporating Sprays* Pengfei He, 2014 Fluid catalytic cracking FCC is a major process used for converting heavy oils to transportation fuels and light olefins The gas solid transport with reaction via intervened evaporating sprays in the FCC riser is specially important but complicated with coupled mechanisms of chemical reaction and heat momentum and mass transfer among multiple phases liquid solid and gas in the restriction of wall boundary Recent developments in FCC process models have progressed along two lines One aims to develop composition based kinetic models derived from molecular characterization of petroleum fractions while overlooking the hydrodynamic effect on local catalyst to oil ratio CTO The other aims to develop computational fluid dynamics CFD based models which cost too much on emphasizing flow dynamics yet not suitable for real time on site monitor control optimization in industry This work shows the efforts in developing an FCC model that strikes a right balance between the kinetics and CFD dominated approaches Specifically the feed injection zone with multiple evaporating sprays penetrating throughout the hot gas solid flow ambient and overlapping among each other is integrally modeled with coupling of FCC kinetic reactions by geometrically cascading sub models of single across spray and gas solid transport An innovative experimental method is proposed to obtain the statistical characteristics of solids wetting and solid droplet collision probability distributions from spray impingement onto free fall particles This feed zone modeling quantifying liquid feed trajectory droplet vaporization gas solid transport and vapor cracking is capable to provide hydrodynamic and pre cracking inlet conditions for downstream gas solid transport in the remaining part of riser A two zone analytic model for FCC riser consisting of an entrance zone and a fully developed riser zone is thus developed Using a four lump cracking kinetic model this work shows that for the first time the commercial data

of Derouin et al 1997 14 can be explained and predicted The success of the prediction reflects an inherent two zone character of the FCC riser Inside the entrance zone cracking intensity is high and changes rapidly resulting in a sharp rise in VGO conversion Outside the entrance zone cracking intensity is low and becomes slowly varying giving rise to a sluggish increase in conversion The results show that the two zone theory is a simple practical way of capturing the essence of physicochemical phenomena underpinning the FCC process Further exploitation of this approach is to quantify solid back flow in gas solid transportation due to wall restriction The continuous modeling which takes into account mechanistic of radial heterogeneity by considering radial mass and momentum balances between the collision induced diffusion and the turbulent convection of solids is proposed Results are partially validated against published experiment data for radial and axial distributions of both solids and gas characteristic properties Back flow ratio can be thus predicted quantitatively for further optimization of riser reactor

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 regime S 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

Pneumatic Conveying of Solids R. D. Marcus, 2012-12-06 When the four of us decided to collaborate to write this book on pneumatic conveying there were two aspects which were of some concern Firstly how could four people who live on four different continents write a book on a fairly complex subject with such wide lines of communications Secondly there was the problem that two of the authors are chemical engineers It has been noted that the majority of chemical engineers who work in the field of pneumatic conveying research have spent most of their time considering flow in vertical pipes As such there was some concern that the book might be biased towards vertical pneumatic conveying and that the horizontal aspects which are clearly the most difficult would be somewhat neglected We hope that you as the reader are going to be satisfied with the fact that you have a truly international dissertation on pneumatic conveying and also that there is an even spread between the theoretical and practical aspects of pneumatic conveying technology

Particle Transport and Heat Transfer in Gas-solid Suspension Flow Under the Influence

of an Electric Field Min Kun,1965 **Plasma Spraying: Theory And Applications** R Suryanarayanan,1993-06-09 The recent advances in plasma spraying are discussed in this book which divides into two sections theory and application The book presents sophisticated experimental techniques diagnostics theoretical models and computer simulations which not only improve the understanding and uses of the spraying process but also help to increase the reliability factor of the manufacturing components Applications that are metallurgical aeronautical automobile chemical etc are also shown More importantly applications that include silicon for solar cells magnets and superconductors are also discussed for the first time Advanced graduate students in materials science and engineering research scientists engineers and industries involved in plasma spray applications will benefit from this book

The Transportation of Gases, Liquids and Solids by Means of Steam, Compressed Air and Pressure Water Oskar Nagel,1909 **Chemical Process Equipment** James R. Couper,W. Roy Penney,2012-09-19 First published Chemical process equipment Stanley M Walas 1988 Experimental Gas-solid Vertical Transport Kuo Ming Luo,19?? **Proceedings of the Technical Program** ,1981 Energy Research Abstracts ,1985

Gas-Solid Reactions Julian Szekely,2012-12-02 Gas Solid Reactions describes gas solid reaction systems focusing on the four phenomena external mass transfer pore diffusion adsorption desorption and chemical reaction This book consists of eight chapters After the introduction provided in Chapter 1 the basic components of gas solid reactions are reviewed in Chapter 2 Chapter 3 describes the reactions of individual nonporous solid particles while Chapter 4 elaborates the reaction of single porous particles Solid solid reactions proceeding through gaseous intermediates are considered in Chapter 5 Chapter 6 deals with the experimental approaches to the study of gas solid reaction systems How information on single particle behavior may be used for the design of multiparticle large scale assemblies and packed and fluidized bed reaction systems is deliberated in Chapter 7 The last chapter covers the specific gas solid reaction systems including some statistical indices indicating the economic importance of the systems and processes it s based on This publication is recommended for practicing engineers engaged in process research development and design in the many fields where gas solid reactions are important

Gas-Solid Operations and Equipment Don W. Green,Robert H. Perry,2007-10-26 Get Cutting Edge Coverage of All Chemical Engineering Topics from Fundamentals to the Latest Computer Applications First published in 1934 Perry s Chemical Engineers Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data Now updated to reflect the latest technology and processes of the new millennium the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications Filled with over 700 detailed illustrations the Eighth Edition of Perry s Chemical Engineering Handbook features Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety

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The Enigmatic Realm of **Gas Solid Transport**: Unleashing the Language is Inner Magic

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