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~~Introduction: Fluidization Engineering~~

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Description. Fluidization Engineering, Second Edition, expands on its original scope to encompass these new areas and introduces reactor models specifically for these contacting regimes. Completely revised and updated, it is essentially a new book. Its aim is to distill from the thousands of studies those particular developments that are pertinent for the engineer concerned with predictive methods, for the designer, and for the user and potential user of fluidized beds.

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Adapted from Kunii & Levenspiel, Fluidized Engineering (Huntington, NY: Robert E. Krieger Publishing Co., 1977). There is a drag exerted on the solid particles by the flowing gas, and at low gas velocities the pressure drop resulting from this drag will follow the Ergun equation, Equation (4-22), just as for any other type of packed bed. When the gas

Figure R12.3-1 From Kunii and Levenspiel Fluidization ...

When he returned to IIT he and Daizo Kunii co-authored Fluidization Engineering in 1969. After a second sabbatical in England in 1968-69, the family moved to Corvallis where Tavy taught at OSU and published Chemical Reactor Omnibook (mostly hand written) in 1979 and Engineering Flow and Heat Exchange in 1984.

Fluidization Engineering, Second Edition, expands on its original scope to encompass these new areas and introduces reactor models specifically for these contacting regimes. Completely revised and updated, it is essentially a new book. Its aim is to distill from the thousands of studies those particular developments that are pertinent for the engineer concerned with predictive methods, for the designer, and for the user and potential user of fluidized beds. Covers the recent advances in the field of fluidization. Presents the studies of developments necessary to the engineers, designers, and users of fluidized beds.

Focuses on the major research developments which are pertinent to engineers concerned with predictive methods and design of fluidization beds.

The threat of natural resource depletion due to high energy demands has become a key concern in both the developed and developing worlds. To alleviate these concerns, researchers around the world are exploring sustainable methods for generating energy. Innovative Solutions in Fluid-Particle Systems and Renewable Energy Management presents phenomenological, experimental, and theoretical research, as well as market criteria and business models concerning the development of small- and large-scale chemical and energy plants. Associating academic and industrial experiences, this book highlights current topics in sustainable energy management and development with an emphasis on obtaining liquid, gaseous, and solid fuels using residues and energetic biomasses. Academicians, researchers, and technology developers will find this book useful in

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furthering their own knowledge and research in this field. A pivotal publication in the field of engineering, this title covers a range of topics including, among others, cellulosic feedstock, agricultural biomass, fluid dynamics, gasification processes, energy extraction from raw materials, and environmental sustainability.

Wastes: Solutions, Treatments and Opportunities II contains selected papers presented at the 4th edition of the International Conference Wastes: Solutions, Treatments and Opportunities, that took place 25-26 September 2017 at the Faculty of Engineering of the University of Porto, Porto, Portugal. The Wastes conference, which takes place biennially, is a prime forum for academics and industry representatives from the waste management and recycling sectors around the world to share their experience and knowledge with all in attendance. The published papers focus on a wide range of topics, including: Wastes as construction materials, Wastes as fuels, Waste treatment technologies, MSW management, Recycling of wastes and materials recovery, Wastes from new materials (nanomaterials, electronics, composites, etc.), Environmental, economic and social aspects in waste management and Circular economy.

First published in 1998. Routledge is an imprint of Taylor & Francis, an informa company.

This book illustrates how models of chemical reactors are built up in a systematic manner, step by step. The authors also outline how the numerical solution algorithms for reactor models are selected, as well as how computer codes are written for numerical performance, with a focus on MATLAB and Fortran. Examples solved in MATLAB and simulations performed in Fortran are included for demonstration purposes.

'Adsorption Calculations and Modelling' provides readers with practical, useful information about how to make adsorption calculations and formulate models describing adsorption processes. Unlike most books on this subject, this book treats both gas phase adsorption and liquid phase adsorption with equal emphasis, and supplies a rigorous treatment of multi-component adsorption. It also covers adsorption applications in environmental applications including the use of impregnated adsorbents for protection against toxic gases and carbon adsorption in water and wastewater treatment. Explores the most up-to-date information on multicomponent adsorption Details adsorption applications in environmental application Explains the fundamentals of adsorption calculation in a simple, straightforward manner.

This textbook is designed to provide the theory, methods of measurement, and principal applications of the expanding field of interfacial hydrodynamics. It is intended to serve the research needs of both academic and industrial scientists, including chemical or mechanical engineers, material and surface scientists, physical chemists, chemical and biophysicists, rheologists, physiochemical hydrodynamicists, and applied mathematicians (especially those with interests in viscous fluid mechanics and continuum mechanics). As a textbook it provides materials for a one- or two-semester graduate-level course in interfacial transport processes. It may also be noted that, while separate practical and theoretical subdivisions of material have been

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introduced, a kind of cross-emphasis is often stressed: (i) to the academic scientist, or the importance of understanding major applications of interfacial transport; and (ii) to the industrial scientist, of the importance of understanding the underlying theory.

Supercritical Fluid Extraction is a technique in which CO₂ is used under extremely high pressure to separate solution (e.g., removing caffeine from coffee). Separations is basic to all process industries and supercritical fluid extraction is a specific type which is receiving a high level of attention. The book will combine basic fundamentals with industrial applications. The second edition has been expanded and updated and includes new chapters on chromatography and food processing. "...this is an excellent book which is both instructive and amusing to read. Its true value is neatly summarised in one of the closing sentences: 'We have supplied you with the guidelines and criteria which you can now apply when considering supercritical fluids for your own needs.'" - Chemistry in Britain, February 1995

This unique book, the first published on the subject, provides an introduction to the theory of macrotransport processes, a comprehensive effective-medium theory of transport phenomena in heterogeneous systems. The text begins with a relatively simple approach to the basic theory before turning to a more formal theoretical treatment which is extended in scope in each successive chapter. Many detailed examples, as well as questions appearing at the end of each chapter, are included to demonstrate the practical implementation of the theory. Macrotransport Processes is aimed at an audience already familiar with conventional theories of transport phenomena. This audience especially includes graduate students in chemical, mechanical, and civil engineering departments, as well as applied mathematicians, biomechanicists, and soil physics, particularly those with interests in problems of flow and dispersion in porous media.

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