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Fluidization Engineering SECOND EDITION Daizo Kunii Fukui Institute of Technology Fukui City, Japan Octave Levenspiel Chemical Engineering Department Oregon State University Corvallis, Oregon Butterworth-Heinemann Boston London Singapore Sydney Toronto Wellington. Contents

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Fluidization engineering. By Kaizo Kunii and Octave Levenspiel, Butterworth-Heinemann Publisher, 491 pp., 2nd. Ed., \$145 (hard cover), 1991

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9.2 Ordinary fluidization 9.3 Some fundamental problems in fluidization engineering 9.4 Basic relationships in two-phase flow Definition of averages Averaged continuity equations Averaged magnetostatic relationships Averaged momentum balances Constitutive relations 9.5 Summary of the averaged equations 9.6 Magnetized fluidized solids

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Fluidization Engineering Kunii Levenspiel

Fluidization (or fluidisation) is a process similar to liquefaction whereby a granular material is converted from a static solid -like state to a dynamic fluid -like state. This process occurs when a fluid (liquid or gas) is passed up through the granular material.

Updated Edition Includes a New Chapter and Enhanced Study Material The second edition of Environmental Microbiology for Engineers explores the role that microorganisms play in the engineered protection and enhancement of an environment. Offering a perfect balance of microbiological knowledge and environmental biotechnology principles, it provides a practical understanding of microorganisms and their functions in the environment and in the environmental engineering systems. The book also presents a quantitative description of applied microbiological processes and their engineering design. This updated edition adds a new chapter on construction biotechnology, and offers new end-of-chapter exam questions with solutions to aid readers with performing the design calculations needed and to enhance understanding of the material. The book covers essential topics that include: Diversity and functions of microorganisms in environmental engineering systems Environmental bioengineering processes Applied microbial genetics and molecular biology Microbiology of water and wastewater treatment Biotreatment of solid waste and soil bioremediation Microbial monitoring of environmental engineering systems Biocorrosion and biodeterioration of materials Biocementation and bioclogging of soil Biopollution of indoor environment Biofouling of facilities, and more Environmental Microbiology for Engineers provides a practical understanding of microorganisms in the civil engineering process and their functions in the environmental engineering systems, and is designed for practicing environmental engineers working in the areas of wastewater, solid waste treatment, soil remediation and ground improvement.

Advances in chemical engineering are focused on intensification of reactions, unit operations and mechanical operations. Intensification facilitates reduction in cost, size and increase in conversion, separation and selectivity. In case of distillation, reactive distillation can reduce energy cost and increase product quality considerably compared to conventional reactor- separator method. Similar advantages can be considered for reaction adsorption and other reactive separations. Use of non-renewable energy sources can reduce burden on conventional feed stocks and reduce carbon foot prints. Nano materials are gaining importance due to their unique properties. Application of nanomaterial for process intensification is being explored in mass transfer, heat transfer and reaction engineering. The composition of flue gases depends on raw material and process. It is important to have adequate knowledge of these aspects while selecting treatment methods. Various chemical conversion methods are effective for the treatment of flue gases. The recovery of components from flue gases involves adsorption, absorption, stripping, and desorption methods. This book contains one chapter on food adulteration also. Food adulteration is very increasing and dangerous phenomenon. It is being practiced from ancient times. Adulteration for maximizing profit is very commonly practiced unethical practice. There is need for increasing moral and ethical values. There is need for people friendly methods for analysing or at least identification of adulterations. Also use of branded items can minimize harms due to adulteration. The chapters in this book are focused on non-renewable energy (chapters 1, 5, 9), water treatment and recycle (chapters 4, 10, 11, 12), use of advanced materials for catalysts (chapters 2, 3, 13), flue gas heat recovery (14), Intensification of unit operations (5, 6, 7, 8) and adulteration in food products.

The United States and China are the top two energy consumers in the world. As a consequence, they are also the top two emitters of numerous air pollutants which have local, regional, and global impacts. Urbanization has led to serious air pollution problems in U.S. and Chinese cities; although U.S. cities continues to face challenges, the lessons they have learned in managing energy use and air quality are relevant to the Chinese experience. This report summarizes current trends, profiles two U.S. and two Chinese cities, and recommends key actions to enable each country to continue to improve urban air quality.

This book discusses the basic formulations of fluid mechanics and their computer modelling, as well as the relationship between experimental and analytical results. Containing papers from the Ninth International Conference on Advances in Fluid Mechanics, this book discusses the basic formulations of fluid mechanics and their computer modelling, as well as the relationship between experimental and analytical results. Scientists, engineers, and other professionals interested in the latest developments in theoretical and computational fluid mechanics will find the book a useful addition to the literature. The book covers a wide range of topics, with emphasis on new applications and research currently in progress, including: Computational Methods in Fluid Mechanics, Environmental Fluid Mechanics; Experimental Versus Simulation Methods; Multiphase Flow; Hydraulics and Hydrodynamics; Heat and Mass Transfer; Industrial Applications; Wave Studies; Biofluids; Fluid Structure Interaction.

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Adopting a unique approach, this novel textbook integrates science and business for an inside view on the biotech industry. Peering behind the scenes, it provides a thorough analysis of the foundations of the present day industry for students and professionals alike: its history, its tools and processes, its markets and products. The authors, themselves close witnesses of the emergence of modern biotechnology from its very beginnings in the 1980s, clearly separate facts from fiction, looking behind the exaggerated claims made by start-up companies trying to attract investors. Essential reading for every student and junior researcher looking for a career in the biotech sector.

Multi-Functionality of Polymer Composites: Challenges and New Solutions brings together contributions from experts in the field of multifunctionality, presenting state-of-the-art discussion of this exciting and rapidly developing field, thus key enabling technologies for future applications. The text will enable engineers and materials scientists to achieve multifunctionality in their own products using different types of polymer matrices and various nano- and micro-sized fillers and reinforcements, including, but not limited to, carbon nanotubes and graphene. In addition, technologies for the integration of active materials such as shape memory alloys are discussed. The latest developments in a wide range of applications, including automotive/aerospace, electronics, construction, medical engineering, and future trends are discussed, making this book an essential reference for any researcher or engineer hoping to stay ahead of the curve in this high-potential area. Provides information on composites and their inherent engineering advantages over traditional materials. Presents state-of-the-art information on this exciting and rapidly developing field, enabling engineers and materials scientists to achieve multi-functionality in their own products. Includes the latest developments in a wide range of applications, including automotive/aerospace, electronics, construction, and medical engineering. An essential reference for any researcher or engineer hoping to stay ahead of the curve in this high-potential area.

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