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Water is a vital element for life. Each recognised form of life on earth, from the smallest microbes to the largest mammals, rely on water. But the amount of fresh water on the earth is limited. Due to industrialisation, urbanisation, and rapid growth of population; even this small amount of fresh water is compromised. Various types of inorganic (toxic and heavy metals) and organic pollutants (dyes, pesticides and pharmacological) are continuously polluting the ecosystem. The development of new efficient technologies are always in demand for the removal of these pollutants. There are several chemical and physical methods available, but among those methods, ion exchange, adsorption and solvent extraction are known to be the most simple and cost effective methods for the removal of these pollutants. This comprehensive book covers 14 review chapters on todays rapidly growing areas of ion exchange, adsorption and solvent extraction and provides an important resource for scientists, and researchers in the fields of Environmental Science, Chemistry, Nanotechnology, Material Science and Engineering.

The Second Edition features new problems that engage readers in contemporary reactor design Highly praised by instructors, students, and chemical engineers, Introduction to Chemical Engineering Kinetics & Reactor Design has been extensively revised and updated in this Second Edition. The text continues to offer a solid background in chemical reaction kinetics as well as in material and energy balances, preparing readers with the foundation necessary for success in the design of chemical reactors. Moreover, it reflects not only the basic engineering science, but also the mathematical tools used by today's engineers to solve problems associated with the design of chemical reactors. Introduction to Chemical Engineering Kinetics & Reactor Design enables readers to progressively build their knowledge and skills by applying the laws of conservation of mass and energy to increasingly more difficult challenges in reactor design. The first one-third of the text emphasizes general principles of chemical reaction kinetics, setting the stage for the subsequent treatment of reactors intended to carry out homogeneous reactions, heterogeneous catalytic reactions, and biochemical transformations. Topics include: Thermodynamics of chemical reactions Determination of reaction rate expressions Elements of heterogeneous catalysis Basic concepts in reactor design and ideal reactor models Temperature and energy effects in chemical reactors Basic and applied aspects of biochemical transformations and bioreactors About 70% of the problems in this Second Edition are new. These problems, frequently based on articles culled from the research literature, help readers develop a solid understanding of the material. Many of these new problems also offer readers opportunities to use current software applications such as Mathcad and MATLAB®. By enabling readers to progressively build and apply their knowledge, the Second Edition of Introduction to Chemical Engineering Kinetics & Reactor Design remains a premier text for students in chemical engineering and a valuable resource for practicing engineers.

New and Future Developments in Catalysis is a package of seven books that compile the latest ideas concerning alternate and renewable energy sources and the role that catalysis plays in converting new renewable feedstock into biofuels and biochemicals. Both homogeneous and heterogeneous catalysts and catalytic processes will be discussed in a unified and comprehensive approach. There will be extensive cross-referencing within all volumes. The use of solar energy during various catalytic chemical processes for the production of an array of chemical products is the theme of this volume. Photocatalysis is a topic of increasing importance due to its essential role in many of today's environmental and energy source problems. The use of solar energy for catalytic reactions results in a carbon dioxide-neutral process. All photocatalytic processes and the future developments in this area are discussed, including an economic analysis of the various processes. Offers in-depth coverage of all catalytic topics of current interest and outlines future challenges and research areas A clear and visual description of all parameters and conditions, enabling the reader to draw conclusions for a particular case Outlines the catalytic processes applicable to energy generation and design of green processes

Looks at the analysis of polymers, covering techniques, basic principles, instruments, and how to obtain data.

Interest in ozonation for drinking water and wastewater treatment has soared in recent years due to ozone's potency as a disinfectant, and the increasing need to control disinfection byproducts that arise from the chlorination of water and wastewater. Ozone Reaction Kinetics for Water and Wastewater Systems is a comprehensive reference that

This book details the design for creation of metal nanomaterials with optimal functionality for specific applications. The authors describe how to make desired metal nanomaterials in a wet lab. They include an overview of applications metal nanomaterials can be implemented in and address the fundamentals in the controlled synthesis of metal nanostructures.

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