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Centrifugal Separations in Biotechnology, Second Edition, is the only book on the market devoted to centrifugal separation in biotechnology. Key topics covered include a full introduction to centrifugation, sedimentation and separation; detailed coverage of centrifuge types, including batch and semi-batch centrifuges, disk-stack and tubular decanter centrifuges; methods for increasing solids

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concentration; laboratory and pilot testing of centrifuges; selection and sizing centrifuges; scale-up of equipment, performance prediction and analysis of test results using numerical simulation. Centrifugal Separations in Biotechnology, Second Edition, provides guidance on troubleshooting and optimizing centrifuges, and then goes on to explore the commercial applications of centrifuges in biotechnology. It gives detailed process information and data to assist in the development of particular processes from existing systems. It is of value to professionals in the chemical, bioprocess, and biotech sectors, and all those concerned with bioseparation, bioprocessing, unit-operations and process engineering. Provides a comprehensive guide to centrifuges, their optimal development, and their operation in the biotechnology industry Updated throughout based on developments in industrial applications and advances in our understanding of centrifugal separations in biotechnology Discusses applications for the separation of proteins, DNA, mitochondria, ribosomes, lysosomes and other cellular elements Includes new sections on use of optimal polymer dosage in waste treatment, new centrifuge designs for applications in algae processing, biopharma, and more

A timely, accessible survey of the multidisciplinary field of bioanalytical chemistry Provides an all in one approach for both beginners and experts, from a broad range of backgrounds, covering introductions, theory, advanced concepts and diverse applications for each method Each chapter progresses from basic concepts to

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applications involving real samples Includes three new chapters on Biomimetic Materials, Lab-on-Chip, and Analytical Methods Contains end-of-chapter problems and an appendix with selected answers

Advanced graduate-level text looks at symmetry, rotations, and angular momentum addition; occupation number representations; and scattering theory. Uses concepts to develop basic theories of chemical reaction rates. Problems and answers.

This book provides a self-contained presentation of optical methods used to measure the structure and dynamics of complex fluids subject to the influence of external fields. Such fields--hydrodynamic, electric, and magnetic--are commonly encountered in both academic and industrial research, and can produce profound changes in the microscale properties of liquids comprised of polymers, colloids, liquid crystals, or surfactants. Starting with the basic Maxwell field equations, this book discusses the polarization properties of light, including Jones and Mueller calculus, and then covers the transmission, reflection, and scattering of light in anisotropic materials. Spectroscopic interactions with oriented systems such as absorptive dichroism, small wide angle light scattering, and Raman scattering are discussed. Applications of these methods to a wide range of problems in complex

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fluid dynamics and structure are presented, along with selected case studies chosen to elucidate the range of techniques and materials that can be studied. As the only book of its kind to present a self-contained description of optical methods used for the full range of complex fluids, this work will be special interest to a wide range of readers, including chemical engineers, physical chemists, physicists, polymer and colloid scientists, along with graduate and post-graduate researchers.

This book provides a rigorous treatment of the fundamental concepts and techniques involved in process modeling and simulation. The book allows the reader to: (i) Get a solid grasp of “under-the-hood” mathematical results (ii) Develop models of sophisticated processes (iii) Transform models to different geometries and domains as appropriate (iv) Utilize various model simplification techniques (v) Learn simple and effective computational methods for model simulation (vi) Intensify the effectiveness of their research

Modeling and Simulation for Chemical Engineers: Theory and Practice begins with an introduction to the terminology of process modeling and simulation. Chapters 2 and 3 cover fundamental and constitutive relations, while Chapter 4 on model formulation builds on these relations. Chapters 5 and 6 introduce the advanced techniques of model transformation and simplification. Chapter 7 deals with model simulation, and the final chapter reviews important mathematical concepts. Presented in a methodical, systematic way, this book is suitable as a self-study guide or as a graduate reference, and includes examples, schematics and diagrams to enrich

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understanding. End of chapter problems with solutions and computer software available online at www.wiley.com/go/upreti/pms_for_chemical_engineers are designed to further stimulate readers to apply the newly learned concepts.

Chemical Engineering Volume 2 covers the properties of particulate systems, including the character of individual particles and their behaviour in fluids. Sedimentation of particles, both singly and at high concentrations, flow in packed and fluidised beds and filtration are then examined. The latter part of the book deals with separation processes, such as distillation and gas absorption, which illustrate applications of the fundamental principles of mass transfer introduced in Chemical Engineering Volume 1. In conclusion, several techniques of growing importance - adsorption, ion exchange, chromatographic and membrane separations, and process intensification - are described. A logical progression of chemical engineering concepts, volume 2 builds on fundamental principles contained in Chemical Engineering volume 1 and these volumes are fully cross-referenced. Reflects the growth in complexity and stature of chemical engineering over the last few years. Supported with further reading at the end of each chapter and graded problems at the end of the book.

Publisher Description

Chemical Engineering Process Simulation is ideal for students, early career

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researchers, and practitioners, as it guides you through chemical processes and unit operations using the main simulation softwares that are used in the industrial sector. This book will help you predict the characteristics of a process using mathematical models and computer-aided process simulation tools, as well as model and simulate process performance before detailed process design takes place. Content coverage includes steady and dynamic simulations, the similarities and differences between process simulators, an introduction to operating units, and convergence tips and tricks. You will also learn about the use of simulation for risk studies to enhance process resilience, fault finding in abnormal situations, and for training operators to control the process in difficult situations. This experienced author team combines industry knowledge with effective teaching methods to make an accessible and clear comprehensive guide to process simulation. Ideal for students, early career researchers, and practitioners, as it guides you through chemical processes and unit operations using the main simulation softwares that are used in the industrial sector. Covers the fundamentals of process simulation, theory, and advanced applications Includes case studies of various difficulty levels to practice and apply the developed skills Features step-by-step guides to using Aspen Plus and HYSYS for process simulations available on companion site Helps readers predict the characteristics of a process using mathematical models and computer-aided process simulation tools

Presents, for the first time in one volume, a concise treatment of labeling in the

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chemical industry. This handbook has been designed to provide an in-depth review of, and to act as a source for, the major elements of a hazardous label communication program to serve the needs of labor, industry, and the public.

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