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A staple in any chemical engineering curriculum New edition has a stronger emphasis on membrane separations, chromatography and other adsorptive processes, ion exchange Discusses many developing topics in more depth in mass transfer operations, especially in the biological engineering area Covers in more detail phase equilibrium since distillation calculations are completely dependent on this principle Integrates computational software and problems using Mathcad Features 25-30 problems per chapter

The ozonation of compounds in water is a complex process. The mechanisms are very complicated, the parameters are many, but the possibilities of developing cost-effective treatment schemes for drinking water and waste water are large. Most books available today concentrate on either drinking water or waste water treatment, seldom dealing with both or explaining the essential differences. And only rare exceptions deal with the how-to of ozone experiments. This practical guide fills the gap. It contains the cumulative knowledge on experimental design, execution, interpretation and application. Drawing on experience gained from hours spent on laboratory research with drinking and waste waters, literature study, intensive discussion with leading experts, perplexed reflection and deep thought, the book offers practical help to avoid common pitfalls and unnecessary work. This book is aimed at professionals in industry and research currently using ozonation who want to optimize their system, as well as students beginning work with ozonation. It contains just enough information for beginners to start with, but goes rapidly to the detailed information that advanced readers need.

This book presents an authoritative progress report that will remain germane to the topic and prove to be a substantial inspiration to further progress. It is valuable to academic and industrial practitioners of the art and science of chemical reaction and reactor engineering.

This is a review book for people planning to take the PE exam in Chemical Engineering. Prepared specifically for the exam used in all 50 states. It features 188 new PE problems with detailed step by step solutions. The book covers all topics on the exam, and includes easy to use tables, charts, and formulas. It is an ideal desk Companion to DAS's Chemical Engineer License Review. It includes sixteen chapters and a short PE sample exam as well as complete references and an index. Chapters include the following topical areas: material and energy balances; fluid dynamics; heat transfer; evaporation; distillation; absorption; leaching; liq-liq extraction; psychrometry and humidification, drying, filtration, thermodynamics, chemical kinetics, process control, mass transfer, and plant safety. The ideal study guide, this book brings all elements of professional problem solving together in one BIG BOOK. Ideal desk reference. Answers hundreds of the most frequently asked questions. The first truly practical, no-nonsense problems and solution book for the difficult PE exam. Full step-by-step solutions are included.

This book shows a typical selection of the types of adsorbents studied and used in wastewater treatment, with emphasis on industrial effluents. The types of materials considered range from conventional sorbents such as carbons and silicas, to non-conventional solids such as sawdust and chitosan. Sorbents for specific applications (e.g. colour removal, metal extraction, fluoride removal) and new polymeric-based sorbents (calixarenes, molecularly imprinted polymers, cyclodextrins) are discussed in detail. For people who are new to the field, two special overview chapters, dealing with the principles and properties of adsorption processes, are provided at the beginning of the book. Also, the book provides a detailed review of sorption features.

Many practical operations, such as environment depollution, blood dialysis or product purification, require matter transfer. With an emphasis on the aforementioned subjects, this book revisits the founding principles of materials transfer on the basis of Fick's first law, which constitutes the foundation of diffusional phenomena. Additionally, continuity equations translating the macroscopic balances of systems are established. These balances constitute Fick's second law, which can be applied to quantify the fluxes of matter transferred in each situation, provided physical data is available. To this end, Mass Transfers and Physical Data Estimation pays particular attention to methods of data estimation. Methods presented in this book are applied to several practical cases, such as diffusion in catalytic reactions or the reconstitution of cartilage in human bone joints.

Advances in Heat Transfer Unit Operations: Baking and Freezing in Bread Making explains the latest understanding of heat transfer phenomena involved in the baking and freezing of bread and describes the most recent advanced techniques used to produce higher quality bread with a longer shelf life. Heat transfer phenomena occur during key bread-making stages (cold storage, resting, and fermentation) in which temperature and amount of heat transfer must be carefully controlled. This book combines the engineering and technological aspects of heat transfer operations and discusses how these operations interact with the bread making process; the book also discusses how baking and freezing influence the product quality. Divided into fourteen chapters, the book covers the basics of heat and mass transfer, fluid dynamics, and surface phenomena in bread-making industrial operations, mathematical modelling in porous systems, the estimation of thermo-physical properties related to bread making, design of equipment, and industrial applications.

Whether in a solar thermal power plant or at the heart of a nuclear reactor, convection is an important mode of energy transfer. This mode is unique; it obeys specific rules and correlations that constitute one of the bases of equipment-sizing equations. In addition to standard aspects of convection, this book examines transfers at very high temperatures where, in order to ensure the efficient transfer of energy for industrial applications, it is becoming necessary to use particular heat carriers, such as molten salts, liquid metals or nanofluids. With modern technologies, these situations are becoming more frequent, requiring appropriate consideration in design calculations. Energy Transfers by Convection also studies the sizing of electronic heat sinks used to ensure the dissipation of heat and thus the optimal operation of circuit boards used in telecommunications, audio equipment, avionics and computers.

The use of biotechnology in chemical synthesis offers up numerous advantages to the engineer in the process industries, but it also presents a number of fundamental challenges and difficulties which impinge directly on separation process requirements. The use of biochemical separations has grown significantly during the past decade, and is especially used in process industries such as healthcare and food processing. However it is becoming increasingly more important in areas such as recycling and waste-water treatment and as industry shifts towards cleaner processes biochemical separations will continue to grow. The two main objectives of this book are to focus on the application of existing separation process techniques to the recovery and purification of biologically derived products and to examine the state of knowledge of new techniques which have future potential. Within these objectives the complexities and breadth of problems associated with biological separations are discussed, specific engineering techniques are featured and their adaptation to biochemical separations are highlighted.