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Separation of Molecules, Macromolecules and Particles ...

Providing chemical engineering undergraduate and graduate students with a basic understanding of how separation of a mixture of molecules, macromolecules or particles is achieved, this textbook is a comprehensive introduction to the engineering science of separation.Students learn how to apply their knowledge to determine the separation achieved in a given device or processReal-world examples are taken from biotechnology, chemical, food, petrochemical, pharmaceutical and pollution control ...

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Separation of Molecules, Macromolecules and Particles ...

Separation of dietary macromolecules (i.e. proteins, dietary fibers) from micromolecules (i.e. antioxidants, sugars) •Referred ultrafiltration studies were conducted with membranes between 100 and 1 kDa. • Polysulphone membranes (20–25 kDa) were very efficient for several separations. •

Separation of functional macromolecules and micromolecules ...

Providing chemical engineering undergraduate and graduate students with a basic understanding of how separation of a mixture of molecules, macromolecules or particles is achieved, this textbook is a comprehensive introduction to the engineering science of separation.

Separation of Molecules, Macromolecules and Particles ...

Electrophoresis in biology uses porous gels as the media. The sample mixture is loaded into a gel, the electric field is applied, and the molecules migrate through the gel matrix. Thus, separation is based on both the molecular sieve effect and on the electrophoretic mobility of the molecules. This method determines the size of biomolecules.

Separation and Purification of Biomolecules - Biology ...

Providing chemical engineering undergraduate and graduate students with a basic understanding of how separation of a mixture of molecules, macromolecules or particles is achieved, this textbook is a comprehensive introduction to the engineering science of separation. • Students learn how to apply their knowledge to determine the separation achieved in a given device or process.

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Separation of molecules, macromolecules and particles ...

A modern separation process textbook written for advanced undergraduate and graduate level courses in chemical engineering.

Providing chemical engineering undergraduate and graduate students with a basic understanding of how separation of a mixture of molecules, macromolecules or particles is achieved, this textbook is a comprehensive introduction to the engineering science of separation. • Students learn how to apply their knowledge to determine the separation achieved in a given device or process • Real-world examples are taken from biotechnology, chemical, food, petrochemical, pharmaceutical and pollution control industries • Worked examples, elementary separator designs and chapter-end problems are provided, giving students a practical understanding of separation. The textbook systematically develops different separation processes by considering the forces causing the separation and how this separation is influenced by the patterns of bulk flow in the separation device. Readers will be able to take this knowledge and apply it to their own future studies and research in separation and purification. Online resources include solutions to the exercises and guidance for computer simulations.

Separation of molecules, macromolecules and particles ...

HPLC stands for high pressure (or performance) liquid chromatography, and is a standard biochemical technique for separating molecules. This volume covers the larger biomolecules—oligosaccharides, glycopeptides, oligonucleotides, polypeptides, and proteins—and includes the latest advances in microbore and packed capillary technology, and in the use of mass spectrometric detection.

This book is a record of a symposium, "Ultrafiltration Membranes and Applications," which was held at the 178th National Meeting of the American Chemical Society in Washington, D.C., September 11-13, 1979. In organztlng these sessions, I hoped to provide a comprehensive survey of the current state of ultrafiltration theory, the most recent advances in membrane technology, and a thorough treatment of existing applications and future directions for ultrafiltration. For me, the symposium was an outstanding success. It was a truly international forum with stimulating presentations and an enthusiastic audience. I hope that some of this spirit has spilled over into this volume, which is intended to reach a much wider audience. I am indebted to the Division of Colloid and Surface Chemistry of the American Chemical Society for their sponsorship. ANTHONY R. COOPER Palo Alto, California Jarch, 1980 vii CONTENTS PART I. FUNDMENTALS Fifteen Years of Ultrafiltration: Problems and Future Promises of an Adolescent Technology . . 1 Alan S. Michaels Production, Specification, and Some Transport Characteristics of Cellulose Acetate Ultrafil tration Membranes for Aqueous Feed Solutions 21 S. Sourirajan, Takeshi Matsura Fu-Hung Hsieh and Gary R. Gildert Chemical and Morphological Effects of Solute Diffusion Through Block Copolymer Membranes 45 Yatin B. Thakore, Dien-Feng Shieh and Donald J. Lyman Practical Aspects in the Development of a Polymer Matrix for Ultrafiltration. 57 Israel Cabasso Permeability Parameters of a Novel Polyamide Membrane. ... - ...

Many techniques of molecular biology involve the transport of macromolecules in solution and are described in the four chapters of this volume. The rates at which macromolecules move in solution are determined by their sizes and shapes (Chapter 1). Molecules can be induced to sediment by applying a centrifugal force, and the rates at which they do so also provide information about their sizes and shapes (Chapter 2). Proteins and nucleic acids usually have overall net electrical charges, due to ionized groups, so they can be induced to migrate in an electrical field; such electrophoretic techniques are central to molecular biology (Chapter 3). The large sizes of macromolecules can make it impossible for them to enter pores of molecular sieves, which can provide information about their sizes and also permit their separation from molecules of other sizes (Chapter 4).

Theoretical and technical bases of electrophoretic methods; Principles of electrophoresis; Moving boundary electrophoresis; Electrophoresis of proteins; Electrophoresis behavior of proteins; Separation of proteins according to their molecular size: estimation of molecular weights; Two-dimensional electrophoretic techniques; Staining of proteins; Detection of proteins; Electrophoretic separation of certain groups of proteins; Electrophoresis of nucleic acids and nucleoproteins; Estimation of the molecular weight of polynucleotides; Electrophoretic separation of glycosaminoglycans.

This book on hollow fiber contactors presents an up-to-date compilation of the latest developments and milestones in this membrane technology. Hollow Fiber Membrane Contactors: Module Fabrication, Design and Operation, and Potential Applications provides a comprehensive discussion of hollow fiber membrane applications (including a few case studies) in biotechnology, chemical, food, and nuclear engineering. The chapters in this book have been classified using the following, based on different ways of contacting fluids with each other: Gas-liquid contacting; Liquid-liquid contacting; Supported liquid membrane; Supported gas membrane; Fluid-fluid contacting. Other features include: Discusses using non-dispersive solvent extraction, hollow fiber strip dispersion, hollow fiber supported liquid membranes and role of process intensification in integrated use of these processes Provides technical and economic perspectives with several case studies related to specific scenarios Demonstrates module fabrication, design, operation and maintenance of hollow fiber contactors for different applications and performance Presents discussion on newer concepts like membrane emulsification, membrane nanoprecipitation, membrane crystallization and membrane condenser Special focus on emerging areas such as the use of hollow fiber contactor in back end of nuclear fuel cycle, membrane distillation, dehumidification of air and gas absorption and stripping Discusses theoretical analysis including computational modeling of different hollow fiber membrane processes, and presents emphasis on newly developed area of hollow fiber membrane based analytical techniques Presents discussion on upcoming area dealing with hollow fiber contactors-based technology in fermentation and enzymatic transformation and in chiral separations This book is equally suited for newcomers to the field, as well as for engineers and scientists that have basic knowledge in this field but are interested in obtaining more information about specific future applications.

The critically acclaimed laboratory standard for more than forty years, Methods in Enzymology is one of the most highly respected publications in the field of biochemistry. Since 1955, each volume has been eagerly awaited, frequently consulted, and praised by researchers and reviewers alike. More than 260 volumes have been published (all of them still in print) and much of the material is relevant even today--truly an essential publication for researchers in all fields of life sciences. Liquid chromatography Electrophoresis Mass spectrometry

Reports up-to-date research developments on purifying and isolating large organic molecules. The text provides information on high-performance liquid chromatography and capillary electrophoresis (CE) as tools for analyzing biomacromolecules and developing new biochemical and medicinal compounds. It applies biochemical separation technology to the study of macromolecules such as proteins, polysaccharides, nucleic acids and more.

Separation of molecules, macromolecules and particles ...

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