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Separations Chemistry Oxford University Press on Demand Engineering Principles of Unit Operations in Food Processing, volume 1 in the Woodhead Publishing Series, In Unit Operations and Processing Equipment in the Food Industry series, presents basic principles of food engineering with an emphasis on unit operations, such as heat transfer, mass transfer and fluid mechanics. Brings new opportunities in the optimization of food processing operations Thoroughly explores applications of food engineering to food processes Focuses on unit operations from an engineering viewpoint
ISC Biology Book I for Class XI Woodhead Publishing

Natural Product Extraction presents an updated review of the more environmentally benign techniques available for the extraction of natural products.

Recent Progress in Separation of Macromolecules and Particulates Lulu.com

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. Key Features
* Liquid chromatography * Electrophoresis * Mass spectrometry

High Resolution Separation and Analysis of Biological Macromolecules, Part B: Applications John Wiley & Sons
Chemical biology utilizes chemical principles to modulate systems to either investigate the underlying biology or create new function. Over recent years, chemical biology has received particular attention of many scientists in the life sciences from botany to medicine. This book contains an overview focusing on the research area of protein purification, enzymology, vitamins, antioxidants, biotransformation, gene delivery, signaling, regulation and organization. Particular emphasis is devoted to both theoretical and experimental aspects. The textbook is written by international scientists with expertise in synthetic chemistry, protein biochemistry, enzymology, molecular biology, drug discovery and genetics many of which are active chemical, biochemical and biomedical research. The textbook is expected to enhance the knowledge of scientists in the complexities of chemical and biological approaches and stimulate both professionals and students to dedicate part of their future research in understanding relevant mechanisms and applications of chemical biology.

Microcellular Materials from Rodlike Macromolecules in Solution Elsevier
This international collection of chapters comprehensively covers different aspects of procedures for speciation analysis at all levels starting from sample collection and storage, through sample preparation approaches to render the species chromatographable, principles of separation techniques used in speciation analysis, to the element specific detection. International renowned editors and contributors Includes coverage of electrochemical methods, biosensors for metal ions, radioisotope techniques and direct

solid speciation techniques Provides information on quality assurance and risk assessment, and speciation-relevant legislation Each chapter is a stand-alone reference covering a given facet of elemental speciation analysis written by an expert in a given field with the volume as a whole providing an excellent introductory text and reference handbook.

Separation Process Principles BoD – Books on Demand

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.

Methods of Protein Separation Academic Press

Basic Separation Techniques In Biochemistry Provides Information On The Basic Separation Techniques Most Commonly Employed In Biochemical Research. The Basic Principles And Applications Of The Routine Methods For The Fractionation Of Subcellular Macromolecules Have Been Discussed In Simple And Comprehensive Manner. The Methodology Of Each Technique Is Presented In A Precise And Concise Way For Meaningful Understanding To A Beginner Student. The Book Is In Eight Chapters, Each With Statement Of Objectives. The Book Will Prove Of Value To Undergraduate Students Of Biochemistry, Chemistry And Biology As Supplementary Reading Text To More Advanced Texts In Laboratory Techniques.

High Resolution Separation and Analysis of Biological Macromolecules CRC Press

Foods are ingested and become part of our body. This book describes the science and procedure behind the materials in foods that impart their desirable properties. The book can serve as a text in a course in food materials science at the senior or graduate level or as a supplemental text in an advanced food technology course. It can also serve as a reference book for professionals in the food industry.

Microcompartmentation and Phase Separation in Cytoplasm John Wiley & Sons

High performance liquid chromatography (HPLC) has long been recognized as one of the most useful and versatile analytical techniques. It has now progressed from being a highly expensive method of analysis to a routine technique with wide applications. Consequently there is a requirement in many chemistry and chemistry-related courses for students to acquire a detailed understanding of the principles and practice of HPLC. Written in a manner suitable for undergraduate students studying analytical chemistry and learning about chromatographic analytical techniques applied to pharmaceutical analysis, biochemistry and related disciplines, **High-performance Liquid Chromatography: Fundamental Principles and Practice** introduces the fundamentals of HPLC. Loosely structured in three parts, the text begins with a thorough introduction of the subject and then progresses through the essential knowledge of the instrumentation needed for HPLC. The final part covers with the applications of HPLC in real-world situations.

Developed by a team of international experts from a wide cross-section of disciplines, the text is relevant to a wide range of courses.

High Performance Liquid Chromatography New Age International

Separation of Functional Molecules in Food by Membrane Technology deals with an issue that is becoming a new research trend in the field of food and bioproducts processing. The book fills in the gap of transfer knowledge between academia and industry by highlighting membrane techniques and applications for the separation of food components in bioresources, discussing separation mechanisms, balancing advantages and disadvantages, and providing relevant applications. Edited by Charis Galanakis, the book is divided in 13 chapters written

by experts from the meat science, food technology and engineering industries. Covers the 13 most relevant topics of functional macro and micro molecules separation using membrane technology in the food industry Brings the most recent advances in the field of membrane processing Presents the sustainability principles of the food industry and the modern bioeconomy frame of our times

Process Chemistry of Petroleum Macromolecules Cambridge University Press

Integrating coverage of polymers and biological macromolecules into a single text, **Physical Chemistry of Macromolecules** is carefully structured to provide a clear and consistent resource for beginners and professionals alike. The basic knowledge of both biophysical and physical polymer chemistry is covered, along with important terms, basic structural properties and relationships. This book includes end of chapter problems and references, and also: Enables users to improve basic knowledge of biophysical chemistry and physical polymer chemistry. Explores fully the principles of macromolecular chemistry, methods for determining molecular weight and configuration of molecules, the structure of macromolecules, and their separations.

CRC Press

Solid/ fluid separation is a major element in the processes performed in many industries, such as pharmaceutical, food, beverage, water, pulp and paper. Several books now exist on the more esoteric aspects of the techniques, but accounts of the fundamental principles involved are few. In this book, two well-known chemical engineers review the scientific and engineering bases for solid/ fluid separation processes in an approachable style. Coverage is comprehensive, with emphasis being given to fluid dynamics, gravity, centrifugal and membrane separations, filter cake formation, deliquoring and washing. An extensive bibliography allows the reader to pursue topics in greater depth. This book forms part of a five-volume set on all aspects of filtration and separation processes. Another volume currently available from the set is: Wakeman & Tarleton: **Solid/ Fluid Separation Processes: Equipment Scale-up for Liquid Filtration**. ISBN 1856174204 * Comprehensive coverage of the scientific and engineering bases for solid/fluid separation processes * Emphasis given to fluid dynamics, gravity, centrifugal and membrane separations,

filter cake formation, deliquoring and washing * Includes an extensive bibliography

The Black Box of Biology Springer Science & Business Media

This book discusses in a systematic manner the role of separation in HPLC, the types and characteristics of stationary phases and of mobile phases used in this technique, as well as other factors influencing the separation. The selection process of stationary and mobile phase for a specific separation is described as related to the physico-chemical characteristics of the molecules to be separated and of their matrix. All these subjects are discussed from the point of view of the new developments in HPLC. The book also includes a part presenting the practice of modern HPLC as necessary for applications, particularly related to the analysis of pharmaceutical and biological samples, food and beverages, environmental samples, etc. Gives a clear presentation of notions and concepts Discusses key parameters in HPLC separation Includes modern developments in HPLC Describes interrelation between various HPLC features (solvent pressure, separation, detection) Includes a large number of references.

Analytical and Preparative Separation Methods of Biomacromolecules Separation of Molecules, Macromolecules and Particles

"This book is about Recent Progress in Separation of Macromolecules and Particulates"--

Macromolecules in Solution Royal Society of Chemistry

Over the past few years, increasing attention has been paid to the search for bioactive compounds from natural sources. The success of plant-derived products such as paclitaxel (Taxol) in tumor therapy or artemisinin in the treatment of malaria has provided the impetus for the introduction of numerous research programmes, especially in Industry. A great deal of effort is being expended in the generation of novel lead molecules of vegetable, marine and microbial origin by the use of high throughput screening protocols. When interesting hits are found, it is essential to have methods available for the rapid isolation of target compounds. For this reason, both industry and academia need efficient preparative chromatographic

separation techniques and experience into-date reference for basic biochemistry, their application. Purified natural products are required for complete spectroscopic identification and full characterization of new compounds, for biological testing and for the supply of pharmaceuticals, standards, and starting materials for synthetic work. Obtaining pure products from an extract can be a very long, tedious and expensive undertaking, involving many steps. Sometimes only minute amounts of the desired compounds are at hand and these entities may be labile. Thus it is an advantage to have access to as many different methods as possible in order to aid the isolation process. Although a certain amount of trial and error may be involved, nowadays there is the possibility of devising suitable rapid separation schemes by a judicious choice of the different techniques available.

Essentials of Chemical Biology John Wiley & Sons

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.

Handbook of Elemental Speciation

Springer Science & Business Media
Modern Liquid Chromatography of Macromolecules

Separation of Functional Molecules in Food by Membrane Technology Academic Press

Although there is a shortage of light petroleum, there is plenty of heavy petroleum rich in macromolecules available, creating an increasing interest for processes that can convert heavy oils to light oils. Process Chemistry of Petroleum Macromolecules provides the scientific basis for such processes, presenting methods to determine improvement potential. Topics include characterization, thermal kinetics, phase behavior, and separation. Revealing that the science of petroleum macromolecules is simpler and more exciting than imagined, it also discusses macromolecules that self-associate, liquid crystalline phases, reactions triggered by phase separation, and both dispersed and dissolved solutes.

Solid/ Liquid Separation Elsevier
Biochemistry: The Chemical Reactions of Living Cells is a well-integrated, up-

associated chemistry, and underlying biological phenomena. Biochemistry is a comprehensive account of the chemical basis of life, describing the amazingly complex structures of the compounds that make up cells, the forces that hold them together, and the chemical reactions that allow for recognition, signaling, and movement. This book contains information on the human body, its genome, and the action of muscles, eyes, and the brain. It also features: thousands of literature references that provide introduction to current research as well as historical background; twice the number of chapters of the first edition; and each chapter contains boxes of information on topics of general interest. -- Publisher description.

Electrophoresis in the Separation of Biological Macromolecules Elsevier

Separation Process Principles with Applications Using Process Simulator, 4th Edition is the most comprehensive and up-to-date treatment of the major separation operations in the chemical industry. The 4th edition focuses on using process simulators to design separation processes and prepares readers for professional practice. Completely rewritten to enhance clarity, this fourth edition provides engineers with a strong understanding of the field. With the help of an additional co-author, the text presents new information on bioseparations throughout the chapters. A new chapter on mechanical separations covers settling, filtration and centrifugation including mechanical separations in biotechnology and cell lysis. Boxes help highlight fundamental equations. Numerous new examples and exercises are integrated throughout as well.