

Harrison Bioseparations Science And Engineering

Wallace Woon-Fong Leung

Bioseparations Science and Engineering Roger G. Harrison,Paul W. Todd,Scott R. Rudge,Demetri P. Petrides,2015-01-27 An updated edition of a comprehensive and authoritative chemical engineering textbook on bioseparations science, updated to include new information on topics like moment analysis, chromatography, and evaporation.

Bioseparations Science and Engineering Trevor G Day,Roger G. Harrison,Paul Todd,Scott R. Rudge,Technical Leader Scott R Rudge,Paul W. Todd,Demetri Petrides,2003 Other unique features include basic information about bioproducts and engineering analysis and a chapter with bioseparations laboratory exercises. Bioseparations Science and Engineering is ideal for students and professionals alike.--BOOK JACKET.

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moment analysis, computer simulation, membrane chromatography, and evaporation, among others, as well as revised problem sets. Unique features include basic information about bioproducts and engineering analysis and a chapter with bioseparations laboratory exercises. Bioseparations Science and Engineering is ideal for students and professionals working in or studying bioseparations, and is the premier text in the field.

From Biotechnology To Bioindustry Seung Wook Kim, Kyung Yeon Kim, 2019-05-23 이 책은 생물공학의 원리, 공정, 제품 개발 및 생산에 관한 내용을 다룬다. 생물공학의 기초 이론, 공정 기술, 제품 개발, 생산 공정, 품질 관리, 안전 관리, 환경 관리, 사회적 책임 등에 대해 상세히 설명하고 있다. 생물공학의 다양한 분야에 대한 이해를 돕고, 생물공학의 발전에 기여할 수 있는 인재 양성에 도움을 준다. 생물공학의 기초 이론, 공정 기술, 제품 개발, 생산 공정, 품질 관리, 안전 관리, 환경 관리, 사회적 책임 등에 대해 상세히 설명하고 있다. 생물공학의 다양한 분야에 대한 이해를 돕고, 생물공학의 발전에 기여할 수 있는 인재 양성에 도움을 준다.

Principles of Bioseparations Engineering Raja Ghosh, 2006 Raja Ghosh discusses the underlying principles of bioseparations engineering written from the perspective of an undergraduate course.

Biologically Inspired Textiles A Abbott, M Ellison, 2008-09-30 Biomimetic materials are those inspired from nature and implemented into new fibre and fabric technologies. Biologically inspired textiles explores the current state of the art in this research arena and examines how biomimetics are increasingly applied to new textile technologies. Part one discusses the principles, production and properties of biomimetics. Chapters include recombinant DNA technologies and their application for protein production, spinning of fibres from protein solutions and structure/function relationships in spider silk. The second part of the book provides a review of the application of biomimetics to a range of textile applications, including the design of clothing and self cleaning textiles. Written by a distinguished team of international authors, Biologically inspired textiles is a valuable reference for textile technologists, fibre scientists, textile manufacturers and others in academia. - Discusses the principles, production and properties of biomimetics - Reviews the application of biomimetics to a range of textile disciplines - Chapters explore recombinant DNA technologies, spinning of fibres and structure/function relationships in spider silk

Valorization of Biomass to Value-Added Commodities Michael O. Daramola, Augustine O. Ayeni, 2020-04-21 This book presents the most up-to-date technologies for the transformation of biomass into valuable fuels, chemicals, materials, and products. It provides comprehensive coverage of the characterization and fractionation of various types of biomass and details the many challenges that are currently encountered during this process. Divided into two sections, this book discusses timely topics such as the characterization of biomass feedstock, pretreatment and fractionation of biomass, and describes the process for conversion of biomass to value-added commodities. The authors bring biomass transformational strategies that are yet to be explored to the forefront, making this innovative book useful for graduate students and researchers in academia, government, and industry.

Separation of Molecules, Macromolecules and Particles Kamalesh Sirkar, 2014-01-16 A modern separation process textbook written for advanced undergraduate and graduate level courses in chemical engineering.

Biopharmaceutical Manufacturing Gary Gilleskie, Charles Rutter, Becky McCuen, 2021-09-07 Biopharmaceuticals, medicines made by or from living organisms (including cells from living organisms), are extremely effective in treating a broad range of diseases. Their importance to human health has grown significantly over the years as more biopharmaceutical products have entered the market, and now the biggest selling drugs in the world are biopharmaceuticals. *Biopharmaceutical Manufacturing: Principles, Processes and Practices* provides concise, comprehensive, and up-to-date coverage of biopharmaceutical manufacturing. Written in a clear and informal style, the content has been influenced by the authors' substantial industry experience and teaching expertise. That expertise enables the authors to address the many questions posed over the years both by university students and professionals with experience in the field. Consequently, the book will appeal both to undergraduate or graduate students using it as a textbook and specialized industry practitioners seeking to understand the big picture of biopharmaceutical manufacturing. This book:

American Book Publishing Record, 2003

Surface-Functionalized Ceramics Laura Treccani, Fabian Meder, 2022-12-14 Surface-Functionalized Ceramics Focused coverage of making and using functional ceramic materials for a wide variety of scientific and technical applications *Surface-Functionalized Ceramics* provides a comprehensive overview of surface functionalization approaches for ceramic materials, including alumina, zirconia, titania, and silica, and their uses as sensors, chemical, and biological probes, chromatographic supports for (bio)molecule purification and analysis, and adsorbents for toxic substances and pollutants. Overall, the text provides a broad picture of the enormous possibilities offered by surface functionalization and addresses the current challenges regarding surface analysis, characterization, and stability. As a well-rounded resource, the text points out opportunities of surface-functionalized ceramics, their issues such as achieving surface stability and complex analysis, and how to counter them. Edited by two experts in the field of advanced materials surfaces, *Surface-Functionalized Ceramics* covers topics such as: Processing methods for advanced ceramics, surface modification of ceramic materials, and methods for electrokinetic surface characteristics Surface imaging and chemical surface analysis using atomic force microscopy Surface chemical analysis and ceramic-enhanced analytics Biological and living matter-surface interactions including protein adsorption mechanisms as well as bacteria behavior in terms of biofilm formation and prevention for antibacterial applications Mesoporous silica and organosilica biosensors for water quality and environmental monitoring, plus ceramic-based adsorbents in bioproduct recovery and purification For professionals, researchers, and academics in the fields of materials science, biotechnology, biotechnological industry, environmental sciences, and ceramics industry, *Surface-Functionalized Ceramics* is a one-stop reference on the subject that provides different approaches to obtain surfaces of

ceramic materials that perform desired functions.

The New Walford Guide to Reference Resources Ray Lester, 2005 The New Walford highlights the best resources to use when undertaking a search for accurate and relevant information, saving you precious time and effort. For those looking for a selective and evaluative reference resource that really delivers on its promise, look no further. In addition to print sources, The New Walford naturally covers an extensive range of e-reference sources such as digital databanks, digital reference services, electronic journal collections, meta-search engines, networked information services, open archives, resource discovery services and websites of premier organizations in both the public and private sectors. But rather than supplying a list of all available known resources as a web search engine might, The New Walford subject specialists have carefully selected and evaluated available resources to provide a definitive list of the most appropriate and useful. With an emphasis on quality and sustainability, the subject specialists have been careful to assess the differing ways that information is framed and communicated in different subject areas. As a result the resource evaluations in each subject area are prefaced by an introductory overview of the structure of the relevant literature. This ensures that The New Walford is clear, easy-to-use and intuitive. - Publisher.

The Chemical Engineer ,2003

Centrifugal Separations in Biotechnology Wallace Woon-Fong Leung, 2007-08-16 This book is the first devoted to centrifugal separation in biotechnology. 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. 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 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. A comprehensive guide to centrifuges, their optimal development and operation in the biotechnology industry Applications for the separation of proteins, DNA, mitochondria, ribosomes, lysosomes and other cellular elements Provides detailed process information and data to assist in the development of particular processes from existing systems Explores the commercial applications of centrifuges in biotechnology Guidance on troubleshooting and optimizing centrifuges

Bioseparations Engineering Michael R. Ladisch, 2001-03-27 Bioseparations engineering is the multidisciplinary application of fundamental engineering and biological principles to the design of absorbents, systems, and processes for the separation of biological molecules.

Perry's Chemical Engineers' Handbook, Eighth Edition Don W. Green, Robert H. Perry, 2007-11-13 Get Cutting-Edge Coverage of All Chemical Engineering Topics—from Fundamentals to the Latest Computer Applications. First published in

1934, Perry's Chemical Engineers' Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data. Now updated to reflect the latest technology and processes of the new millennium, the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering—from fundamental principles to chemical processes and equipment to new computer applications. Filled with over 700 detailed illustrations, the Eighth Edition of Perry's Chemical Engineering Handbook features: Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition: the latest advances in distillation, liquid-liquid extraction, reactor modeling, biological processes, biochemical and membrane separation processes, and chemical plant safety practices with accident case histories Inside This Updated Chemical Engineering Guide Conversion Factors and Mathematical Symbols • Physical and Chemical Data • Mathematics • Thermodynamics • Heat and Mass Transfer • Fluid and Particle Dynamics Reaction Kinetics • Process Control • Process Economics • Transport and Storage of Fluids • Heat Transfer Equipment • Psychrometry, Evaporative Cooling, and Solids Drying • Distillation • Gas Absorption and Gas-Liquid System Design • Liquid-Liquid Extraction Operations and Equipment • Adsorption and Ion Exchange • Gas-Solid Operations and Equipment • Liquid-Solid Operations and Equipment • Solid-Solid Operations and Equipment • Size Reduction and Size Enlargement • Handling of Bulk Solids and Packaging of Solids and Liquids • Alternative Separation Processes • And Many Other Topics!

Electrostatic Contributions in Binary Protein Ultrafiltration Yiheng Wang, 2008

Handbook of Pharmaceutical Biotechnology Shayne C. Gad, 2007-06-11 Describes the use of biotechnology to develop pharmaceuticals. This book gives the professional a basic tool to facilitate the development of biotech medicines by bringing together a general overview of biotechnology used in the drug development process, along with a compendium of regulations and validation methods.

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