

# **BIOSEPARATIONS SCIENCE AND ENGINEERING**

Second Edition

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# Bioseparations Science And Engineering

**Michael R. Ladisch**



## **Bioseparations Science And Engineering :**

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complexities and breadth of problems associated with biological separations are discussed specific engineering techniques are featured and their adaptation to biochemical separations are highlighted

*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

*Bioseparation Engineering* I. Endo,T. Nagamune,S. Katoh,T. Yonemoto,2000-03-17 The bioseparation engineering of today includes downstream process engineering such as waste water material and gas treatment Taking this tendency into account bioseparation engineers gathered in Japan as a special research group under the main theme of Recovery and Recycle of Resources to Protect the Global Environment The scope of this book is based on the conference and deals not only with recent advances in bioseparation engineering in a narrow sence but also the environmental engineering which includes waste water treatment and bioremediation The contributors of this book cover many disciplines such as chemical engineering analytical chemistry biochemistry and microbiology Bioseparation Engineering will stimulate young engineers and scientists who will develop bioseparation engineering further in the 21st century and contribute to a world wide attention to the global environment

*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

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**Bioseparation Engineering** Ajay Kumar, Abhishek Awasthi, 2009 Bioseparation Engineering is meant for undergraduate and the postgraduate student community pursuing careers in Life Sciences. It concentrates on the more recent methods and techniques for separating components and products of the biotechnology industry. Each chapter deals with a specific type or area of application and includes information on the basic principles, industrial equipment available, commercial applications, and an overview of current research and development. The main objective of the book is to provide in-depth knowledge of the subject in an interesting and paramount simple way. *Chemical Engineering Education*, 2004

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