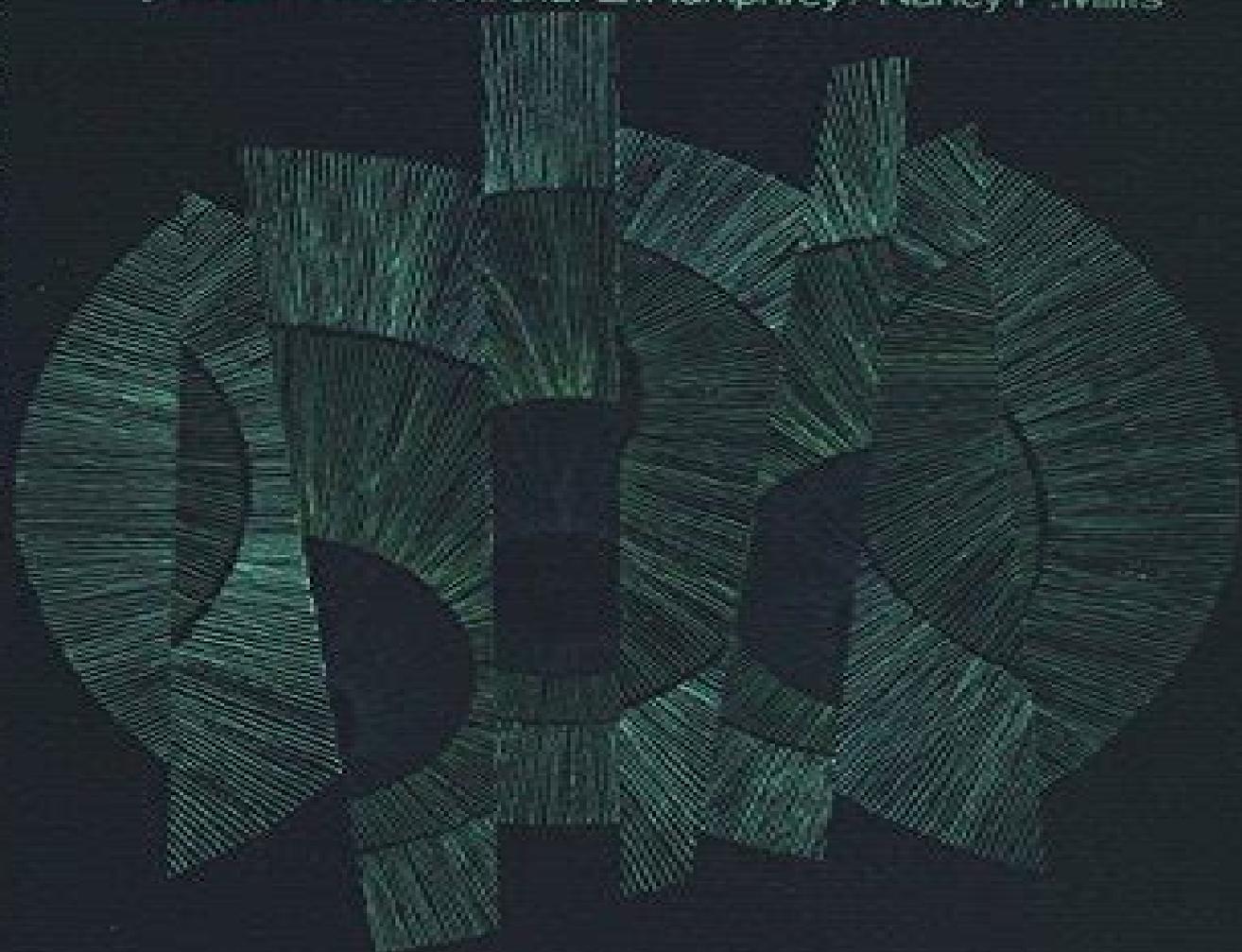


# BIOCHEMICAL ENGINEERING

by Shuichi Aiba / Arthur E. Humphrey / Nancy F. Millis



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# Biochemical Engineering Aiba Humphrey

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Berry**



## **Biochemical Engineering Aiba Humphrey:**

Biochemical Engineering Shuichi Aiba, Arthur Earl Humphrey, Nancy F. Millis, 1965      Biochemical Engineering. [By] Shuichi Aiba ... Arthur E. Humphrey ... Nancy F. Millis Shuichi AIBA, Arthur E. HUMPHREY, Nancy F. MILLIS, 1965

**Biochemical Engineering, Second Edition** Douglas S. Clark, Harvey W. Blanch, 1997-02-14 This work provides comprehensive coverage of modern biochemical engineering detailing the basic concepts underlying the behaviour of bioprocesses as well as advances in bioprocess and biochemical engineering science It includes discussions of topics such as enzyme kinetics and biocatalysis microbial growth and product formation bioreactor design transport in bioreactors bioproduct recovery and bioprocess economics and design A solutions manual is available to instructors only      Biochemical Engineering 33 ,2004      Biochemical Engineering S. AIBA, University of Tokyo Press, 1986-10-01      *Biochemical Engineering* Shigeo Kato, Jun-ichi Horiuchi, Fumitake Yoshida, 2015-02-02 Completely revised updated and enlarged this second edition now contains a subchapter on biorecognition assays plus a chapter on bioprocess control added by the new co author Jun ichi Horiuchi who is one of the leading experts in the field The central theme of the textbook remains the application of chemical engineering principles to biological processes in general demonstrating how a chemical engineer would address and solve problems To create a logical and clear structure the book is divided into three parts The first deals with the basic concepts and principles of chemical engineering and can be read by those students with no prior knowledge of chemical engineering The second part focuses on process aspects such as heat and mass transfer bioreactors and separation methods Finally the third section describes practical aspects including medical device production downstream operations and fermenter engineering More than 40 exemplary solved exercises facilitate understanding of the complex engineering background while self study is supported by the inclusion of over 80 exercises at the end of each chapter which are supplemented by the corresponding solutions An excellent comprehensive introduction to the principles of biochemical engineering      **Biochemical engineering** Suichi Aiba, 1973      Horizons of Biochemical Engineering Shuichi Aiba, 1988 This book provides an up to date comprehensive overview of the field of biochemical engineering It is edited by the distinguished co author of the classic textbook *Biochemical Engineering* which first established this area of interdisciplinary research and pioneered its extensive applications in fields such as microbiology pharmaceuticals chemicals engineering and food processing The contributors to this volume are leading researchers from around the world writing on subjects that include physiology kinetics DNA technology metabolites measurement and control and environmental protection While some of the chapters reflect on past achievements in biochemical engineering most report on contemporary research and plans for future progress      **Desk Encyclopedia of Microbiology** Moselio Schaechter, 2003-12-11 The Desk Encyclopedia of Microbiology aims to provide an affordable and ready access to a large variety of microbiological topics within one set of covers This handy desk top reference brings together an outstanding collection of work by the top scientists in the field

Covering topics ranging from the basic science of microbiology to the current hot topics in the field Provides a broad easily accessible perspective on a wide range of microbiological topics A synthesis of the broadest topics from the comprehensive and multi volumed Encyclopedia of Microbiology Second Edition Helpful resource in preparing for lectures writing reports or drafting grant applications **Modern Biotechnology** Nathan S. Mosier, Michael R. Ladisch, 2011-09-20 A unique resource for the next generation of biotech innovators Enabling everything from the deciphering of the human genome to environmentally friendly biofuels to lifesaving new pharmaceuticals biotechnology has blossomed as an area of discovery and opportunity Modern Biotechnology provides a much needed introduction connecting the latest innovations in this area to key engineering fundamentals With an unmatched level of coverage this unique resource prepares a wide range of readers for the practical application of biotechnology in biopharmaceuticals biofuels and other bioproducts Organized into fourteen sections reflecting a typical semester course Modern Biotechnology covers such key topics as Metabolic engineering Enzymes and enzyme kinetics Biocatalysts and other new bioproducts Cell fusion Genetic engineering DNA RNA and genes Genomes and genomics Production of biopharmaceuticals Fermentation modeling and process analysis Taking a practical applications based approach the text presents discussions of important fundamentals in biology biochemistry and engineering with relevant case studies showing technology applications and manufacturing scale up Written for today s wider more interdisciplinary readership Modern Biotechnology offers a solid intellectual foundation for students and professionals entering the modern biotechnology industry *Encyclopedia of Microbiology*, 2009-01-14 Available as an exclusive product with a limited print run Encyclopedia of Microbiology 3e is a comprehensive survey of microbiology edited by world class researchers Each article is written by an expert in that specific domain and includes a glossary list of abbreviations defining statement introduction further reading and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields 16 separate areas of microbiology covered for breadth and depth of content Extensive use of figures tables and color illustrations and photographs Language is accessible for undergraduates depth appropriate for scientists Links to original journal articles via Crossref 30% NEW articles and 4 color throughout NEW **Optimization of Processes for Single-cell Protein Manufacture** Peter Wai-Man Chang, 1970 **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

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**Recovery Processes for Biological Materials** John F. Kennedy, Joaquim S. Cabral, 1993-07-20 This is a collection of papers looking at recovery processes for biological materials Topics covered include stability and stabilization of proteins during extraction separation and purification cell wall disruption membrane separation processes and liquid liquid extraction

*Microbial Fundamentals* Hans-Jürgen Rehm, Gerald Reed, 1981 Biotechnology, Biotechnology - A Comprehensive Treatise Hans-Jürgen Rehm, 1981-12-22 Proceedings of the First Intersectional Congress of IAMS: Microbial products; freezing and freeze-drying International Association of Microbiological Societies, 1975 **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

*Oxygen Transfer Relationships in a Poultry Waste Mixed Liquor* Dale Robert Baker, 1973 The Filamentous Fungi: Fungal technology John Edward Smith, David Richard Berry, 1983

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