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Shigeo Katoh, Jun-ichi Horiuchi, and Fumitake Yoshida

## Biochemical Engineering

A Textbook for Engineers, Chemists and Biologists

Second, Completely Revised and Enlarged Edition

# **Biochemical Engineering Second Edition Chemical Industries**

Pandey G.N.

#### **Biochemical Engineering Second Edition Chemical Industries:**

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 Engineering, Second Edition Douglas S. Clark, Harvey W. Blanch, 1995-10-26 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 Shigeo** Katoh, Jun-ichi Horiuchi, Fumitake Yoshida, 2015-04-27 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 SYED TANVEER AHMED INAMDAR,2012-09-05 The book now in its Third Edition continues to offer the basic concepts and principles of biochemical engineering It covers the curriculum for a first course in Biochemical Engineering at the undergraduate level of Chemical Engineering discipline and also caters to the requirements of BTech Biotechnology and BSc Biotechnology offered by various universities The text first explains the basics of microbiology and biochemistry before moving on to explore the significance of enzymes their properties types kinetics industrial applications production and formulation and the methods of their immobilization It also deals with cell growth and its kinetic aspects and discusses various types of biological reactors with an emphasis on key engineering practices related to fermentation processes and products bioreactor design and operation It offers a complete description on downstream

processing and control of microorganisms Besides it also covers in the appendices some important topics such as process kinetics and reactor analysis bioenergetics and environmental microbiology to justify their relevance in biochemical engineering NEW TO THIS EDITION Offers a complete description with applications and configurations of membrane bioreactors Chapter 7 Presents a facelift of downstream processes in the topics viz disruption of cells supported with flow sheet freeze drying formulation etc along with a total revamping of the discussion on supercritical fluid extraction and induction of biofouling Chapter 9 Provides a new appendix Appendix D on Self Assessment Exercises which incorporates questions in the form of multiple choice true false and fill in the blanks in order to assess the level of understanding

Textbook of Chemical Technology Volume-II, 2nd Edition Pandey G.N., 2000-05 This book is a companion volume of A Textbook of Chemical Technology Volume I written by the same author The two books cover the complete syllabi of Chemical Engineering and Chemical Technology programmes leading to the B Tech degree The book explains the basic principles of chemical engineering and operating conditions of chemical plants in India It discusses all major organic chemical industries including petroleum technology petro chemicals polymer science pulp and paper technology It also deals with pesticides coal and coal chemicals and the pharmaceutical industry Keeping the importance of environmental protection and prevention and control of hazards in mind a few chapters on planned industrial development environmental impact assessment and prevention of hazards in chemical industries have also been included This book will also serve as a reference for practicing Biochemical Engineering and Biotechnology Ghasem Najafpour, 2015-02-24 Biochemical engineers and technologists Engineering and Biotechnology 2nd Edition outlines the principles of biochemical processes and explains their use in the manufacturing of every day products The author uses a direct approach that should be very useful for students in following the concepts and practical applications This book is unique in having many solved problems case studies examples and demonstrations of detailed experiments with simple design equations and required calculations Covers major concepts of biochemical engineering and biotechnology including applications in bioprocesses fermentation technologies enzymatic processes and membrane separations amongst others Accessible to chemical engineering students who need to both learn and apply biological knowledge in engineering principals Includes solved problems examples and demonstrations of detailed experiments with simple design equations and all required calculations Offers many graphs that present actual experimental data figures and tables along with explanations **Development of Sustainable Bioprocesses** Elmar Heinzle, Arno P. Biwer, Charles L. Cooney, 2007-01-11 Bioprocess technology involves the combination of living matter whole organism or enzymes with nutrients under laboratory conditions to make a desired product within the pharmaceutical food cosmetics biotechnology fine chemicals and bulk chemicals sectors Industry is under increasing pressure to develop new processes that are both environmentally friendly and cost effective and this can be achieved by taking a fresh look at process development namely by combining modern process modeling techniques with sustainability assessment methods Development of

Sustainable Bioprocesses Modeling and Assessment describes methodologies and supporting case studies for the evolution and implementation of sustainable bioprocesses Practical and industry focused the book begins with an introduction to the bioprocess industries and development procedures Bioprocesses and bioproducts are then introduced together with a description of the unit operations involved Modeling procedures a key feature of the book are covered in chapter 3 prior to an overview of the key sustainability assessment methods in use environmental economic and societal The second part of the book is devoted to case studies which cover the development of bioprocesses in the pharmaceutical food fine chemicals cosmetics and bulk chemicals industries Some selected case studies include citric acid biopolymers antibiotics biopharmaceuticals Supplementary material provides hands on materials so that the techniques can be put into practice These materials include a demo version of SuperPro Designer software used in process engineering and models of all featured case studies excel sheets of assessment methods Monte Carlo simulations and exercises Previously available on CD ROM the supplementary material can now be accessed via http booksupport wiley com by entering the author name book title or isbn and clicking on the desired entry This will then give a listing of all the content available for download Please read any text files before downloading material Industrial Biotechnology Debabrata Das, Soumya Pandit, 2021-05-06 Industrial Biotechnology offers a comprehensive overview of biochemical processes technologies and practical applications of industrial biotechnology The work comprises of chapters that discuss medium preparation inoculum preparation using industrial strain and upstream processing various fermentation processes and physico chemical separation processes for the purification of products and packaging Analyzes problems within biochemical processes Discusses stoichiometry of bioprocesses Covers upstream and downstream processing Offers a wealth of case studies of different biochemical production processes including those in development of food products vaccines and medicines single cell proteins amino acids cheese biodiesel biopesticides and more This book is aimed at advanced students industrial practitioners and researchers in biotechnology food engineering chemical engineering and environmental engineering **Crystallization of Organic Compounds** Hsien-Hsin Tung, Edward L. Paul, Michael Midler, James A. McCauley, 2023-07-25 Crystallization of Organic Compounds Practical resource covering applications of crystallization principles with methodologies case studies and numerous industrial examples for emphasis Based on the authors hands on experiences as process engineers through the use of case studies and examples of crystallization processes ranging from laboratory development through manufacturing scale up Crystallization of Organic Compounds guides readers through the practical applications of crystallization and emphasizes strategies that have proven to be successful enabling readers to avoid common pitfalls that can render standard procedures unsuccessful Most chapters feature multiple examples that guide readers step by step through the crystallization of active pharmaceutical ingredients APIs including an analysis of the major methods of carrying out crystallization operations their strengths and potential issues as well as numerous examples of crystallization processes from development through manufacturing scale Advancements in

the field of crystallization have been integrated throughout the book in the newly revised Second Edition to ensure the content adequately reflects current state of the art industrial know hows and practice The new edition also adds chapters addressing downstream operations after the crystallization including filtration washing and drying together with industrial use cases Crystallization of Organic Compounds includes detailed information on Solubility and solid behavior covering phase rule polymorph salt co crystal chiral resolution and in silico solubility prediction and kinetics covering seed supersaturation nucleation crystal growth and model based experimental design Critical issues in the crystallization practice covering oiling out seeding wet milling agglomeration aggregation mixing scale up and quality by design principles Cooling anti solvent evaporation and reactive crystallization process design covering batch and continuous operations with industrial examples Special applications covering crystallization with ultrasound reaction selectivity enhancement and computation fluid dynamics and solid dispersion With highly practical coverage of the subject Crystallization of Organic Compounds is an essential resource for engineers and chemists involved with the development scaling or operation of crystallization process in the pharmaceutical and fine chemical industries particularly those with degrees in chemical engineering and chemistry

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