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Bioprocess Engineering, Second Edition is a comprehensive update of the world's leading introductory textbook on biochemical and bioprocess engineering. Drs. Drs. Michael L. Shuler and Fikret Kargi review the relevant fundamentals of biochemistry, microbiology, and molecular biology, introducing key principles that enable bioprocess engineers to achieve consistent control over biological activity.*

Bioprocess Engineering: Basic Concepts: Shuler, Michael L ...

NEW - Concepts of validation and Good Manufacturing Practice (GMP) are introduced. Helps students to better understand regulatory constraints on bioprocess development. Ex.____ NEW - Updated coverage of concepts. Shows students the connection between traditional ideas and emerging areas--such as tissue engineering and gene therapy.

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Fikret Kargi is Professor in the Department of Environmental Engineering at Dokuz Eylul University. His interests include bioprocess engineering, environmental biotechnology, wastewater treatment, biotechnology-bioengineering, and waste bioprocessing. He holds a Ph.D. in Chemical/Biochemical Engineering from Cornell.

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He directed the School of Chemical Engineering (1998-2002) and was founding James and Marsha McCormick Chair for Biomedical Engineering (2004-2014). He also directs the Center on the Microenvironment and Metastasis (CMM), funded by the National Cancer Institute as a Physical Sciences - Oncology Center.

Shuler, Kargi & DeLisa, Bioprocess Engineering: Basic ...

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Michael Shuler and Fikret Kargi, Bioprocess Engineering: Basic Concepts (2e), Prentice Hall, Englewood Cliffs, NJ, 2002. ... Michael L Shuler and Fikret Kargi, Bioprocess Engineering: Basic Concepts, Prentice-Hall of India Pvt Ltd, 2008. 8 SEMESTER I CORE COURSE V - LAB IN BIOPROCESS I

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Textbook for junior and senior level majors in chemical engineering covering the field of biochemical engineering.

For Senior-level and graduate courses in Biochemical Engineering, and for programs in Agricultural and Biological Engineering or Bioengineering. This concise yet comprehensive text introduces the essential concepts of bioprocessing--internal structure and functions of different types of microorganisms, major metabolic pathways, enzymes, microbial genetics, kinetics and stoichiometry of growth and product information--to traditional chemical engineers and those in related disciplines. It explores the engineering principles necessary for bioprocess synthesis and design, and illustrates the application of these principles to modern biotechnology for production of pharmaceuticals and biologics, solution of environmental problems, production of commodities, and medical applications.

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The emergence and refinement of techniques in molecular biology has changed our perceptions of medicine, agriculture and environmental management. Scientific breakthroughs in gene expression, protein engineering and cell fusion are being translated by a strengthening biotechnology industry into revolutionary new products and services. Many a student has been enticed by the promise of biotechnology and the excitement of being near the cutting edge of scientific advancement. However, graduates trained in molecular biology and cell manipulation soon realize that these techniques are only part of the picture. Reaping the full benefits of biotechnology requires manufacturing capability involving the large-scale processing of biological material. Increasingly, biotechnologists are being employed by companies to work in co-operation with chemical engineers to achieve pragmatic commercial goals. For many years aspects of biochemistry and molecular genetics have been included in chemical engineering curricula, yet there has been little attempt until recently to teach aspects of engineering applicable to process design to biotechnologists. This textbook is the first to present the principles of bioprocess engineering in a way that is accessible to biological scientists. Other texts on bioprocess engineering currently available assume that the reader already has engineering training. On the other hand, chemical engineering textbooks do not consider examples from bioprocessing, and are written almost exclusively with the petroleum and chemical industries in mind. This publication explains process analysis from an engineering point of view, but refers exclusively to the treatment of biological systems. Over 170 problems and worked examples encompass a wide range of applications, including recombinant cells, plant and animal cell cultures, immobilised catalysts as well as traditional fermentation systems. * * First book to present the principles of bioprocess engineering in a way that is accessible to biological scientists * Explains process analysis from an engineering point of view, but uses worked examples relating to biological systems * Comprehensive, single-authored * 170 problems and worked examples encompass a wide range of applications, involving recombinant plant and animal cell cultures, immobilized catalysts, and traditional fermentation systems * 13 chapters, organized according to engineering sub-disciplines, are grouped in four sections - Introduction, Material and Energy Balances, Physical Processes, and Reactions and Reactors * Each chapter includes a set of problems and exercises for the student, key references, and a list of suggestions for further reading * Includes useful appendices, detailing conversion factors, physical and chemical property data, steam tables, mathematical rules, and a list of symbols used * Suitable for course adoption - follows closely curricula used on most bioprocessing and process biotechnology courses at senior undergraduate and graduate levels.

Bioprocess Engineering involves the design and development of equipment and processes for the manufacturing of products such as food, feed, pharmaceuticals, nutraceuticals, chemicals, and polymers and paper from biological materials. It also deals with studying various biotechnological processes. "Bioprocess Kinetics and Systems Engineering" first of its kind contains systematic and comprehensive content on bioprocess kinetics, bioprocess systems, sustainability and reaction engineering. Dr. Shijie Liu reviews the relevant fundamentals of chemical kinetics-including batch and continuous reactors, biochemistry, microbiology, molecular biology, reaction engineering, and bioprocess systems engineering- introducing key principles that enable bioprocess engineers to engage in the analysis, optimization, design and consistent control over biological and chemical transformations. The quantitative treatment of bioprocesses is the central theme of this book, while more advanced techniques and applications are covered with some depth. Many theoretical derivations and simplifications are used to demonstrate how empirical kinetic models are applicable to complicated bioprocess systems. Contains extensive illustrative drawings which make the understanding of the subject easy Contains worked examples of the various process parameters, their significance and their specific practical use Provides the theory of bioprocess kinetics from simple concepts to complex metabolic pathways Incorporates sustainability concepts into the various bioprocesses

Plant Biotechnology presents a balanced, objective exploration of the technology behind genetic manipulation, and its application to the growth and cultivation of plants. The book describes the techniques underpinning genetic manipulation and makes extensive use of case studies to illustrate how this influential tool is used in practice.

The ability of the United States to sustain a dominant global position in biotechnology lies in maintaining its primacy in basic life-science research and developing a strong resource base for bioprocess engineering and bioproduct manufacturing. This book examines the status of bioprocessing and biotechnology in the United States; current bioprocess technology, products, and opportunities; and challenges of the future and what must be done to meet those challenges. It gives recommendations for action to provide suitable incentives to establish a national program in bioprocess-engineering research, development, education, and technology transfer.