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Dr. Michael L. Shuler is

Samuel B. Eckert Professor of Engineering at Cornell University. He directed the School of Chemical Engineering (1998-2002) and was founding James and Marsha McCormick Chair for Biomedical Engineering (2004-2014).

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Bioprocess engineering : basic concepts. Responsibility Michael L. Shuler, Fikret Kargi. Imprint Englewood Cliffs, N.J. : Prentice Hall, c1992. Physical description 479 p. Series Prentice Hall international series in the physical and chemical engineering series. Available online

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Bioprocess Engineering: Kinetics, Sustainability, and Reactor Design, Second Edition, provides a comprehensive resource on bioprocess kinetics, bioprocess systems, sustainability, and reaction engineering. Author Dr. Shijie Liu

reviews the relevant fundamentals of chemical kinetics, batch and continuous reactors, biochemistry, microbiology, molecular biology, reaction engineering, and bioprocess systems engineering, also introducing key principles that enable bioprocess engineers to engage ...

Bioprocess Engineering - 2nd Edition

Engineering, but also includes material suited for upper level engineering students. 5) Shuler and Kargi Shuler is a chemical engineer and Kargi is an environmental engineer. These authors state that their aim is to introduce

concepts of bioprocessing to chemical engineering students and practitioners.

A Review Of Texts For Biological Engineering Courses

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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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commodities, and medical applications.

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 realise 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 groupled 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.

This book is the culmination of three decades of accumulated experience in teaching biotechnology professionals. It distills

the fundamental principles and essential knowledge of cell culture processes from across many different disciplines and presents them in a series of easy-to-follow, comprehensive chapters. Practicality, including technological advances and best practices, is emphasized. This second edition consists

of major updates to all relevant topics contained within this work. The previous edition has been successfully used in training courses on cell culture bioprocessing over the past seven years. The format of the book is well-suited to fast-paced learning, such as is found in the intensive short course,

since the key take-home messages are prominently highlighted in panels. The book is also well-suited to act as a reference guide for experienced industrial practitioners of mammalian cell cultivation for the production of biologics.

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.

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