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A comprehensive presentation of essential topics for biological engineers, focusing on the development and application of dynamic models of biomolecular and cellular phenomena. This book describes the fundamental molecular and cellular events responsible for biological function, develops models to study biomolecular and cellular phenomena, and shows, with examples, how models are applied in the design and interpretation of experiments on biological systems. Integrating molecular cell biology with quantitative engineering analysis and design, it is the first textbook to offer a comprehensive presentation of these essential topics for chemical and biological engineering. The book systematically develops the concepts necessary to understand and study complex biological phenomena, moving from the simplest elements at the smallest scale and progressively adding complexity at the cellular organizational level, focusing on experimental testing of mechanistic hypotheses. After introducing the motivations for formulation of mathematical rate process models in biology, the text goes on to cover such topics as noncovalent binding interactions; quantitative descriptions of the transient, steady state, and equilibrium interactions of proteins and their ligands; enzyme kinetics; gene expression and protein trafficking; network dynamics; quantitative descriptions of growth dynamics; coupled transport and reaction; and discrete stochastic processes. The textbook is intended for advanced undergraduate and graduate courses in chemical engineering and bioengineering, and has been developed by the authors for classes they teach at MIT and the University of Minnesota.

Links basic science and engineering principles to show how engineers create new methods of diagnosis and therapy for human disease.

Bioengineering is a broad-based engineering discipline that applies engineering principles and design to challenges in human health and medicine, dealing with bio-molecular and molecular processes, product design, sustainability and analysis of biological systems. Applications that benefit from bioengineering include medical devices, diagnostic equipment and biocompatible materials, among others. Computer Modeling in Bioengineering offers a comprehensive reference for a large number of bioengineering topics, presenting important computer modeling problems and solutions for research and medical practice. Starting with basic theory and fundamentals, the book progresses to more advanced methods and applications, allowing the reader to become familiar with different topics to the desired extent. It includes unique and original topics alongside classical computational modeling methods, and each application is structured to explain the physiological background, phenomena that are to be modeled, the computational methods used in the model, and solutions of typical cases. The accompanying software contains over 80 examples, enabling the reader to study a topic using the theory and examples, then run the software to solve the same, or similar examples, varying the model parameters within a given range in order to investigate the problem at greater depth. Tutorials also guide the user in further exploring the modeled problem; these features promote easier learning and will help lecturers with presentations. Computer Modeling in Bioengineering includes computational methods for modelling bones, tissues, muscles, cardiovascular components, cartilage, cells and cancer nanotechnology as well as many other applications. It bridges the gap between engineering, biology and medicine, and will appeal not only to bioengineering students, lecturers and researchers, but also medical students and clinical researchers.

A thorough introduction to the basics of bioengineering, with a focus on applications in the emerging "white" biotechnology industry. As such, this latest volume in the "Advanced Biotechnology" series covers the principles for the design and analysis of industrial

bioprocesses as well as the design of bioremediation systems, and several biomedical applications. No fewer than seven chapters introduce stoichiometry, kinetics, thermodynamics and the design of ideal and real bioreactors, illustrated by more than 50 practical examples. Further chapters deal with the tools that enable an understanding of the behavior of cell cultures and enzymatically catalyzed reactions, while others discuss the analysis of cultures at the level of the cell, as well as structural frameworks for the successful scale-up of bioreactions. In addition, a short survey of downstream processing options and the control of bioreactions is given. With contributions from leading experts in industry and academia, this is a comprehensive source of information peer-reviewed by experts in the field.

Bioengineering is the application of engineering principles to address challenges in the fields of biology and medicine encompassing the principles of engineering design to the full spectrum of living systems. In surgery, recent advances in minimal invasive surgery and robotics are the culmination of the work that both engineers and surgeons have achieved in the medical field through an exciting and challenging interface. This interface rests on the medical curiosity and engineering solutions that lead eventually to collaboration and development of new ideas and technologies. Most recently, innovation by surgeons has become a fundamental contribution to medical research in the surgical field, and it is through effective communication between surgeons and biomedical engineers and promoting collaborative initiatives that translational research is possible. Bioengineering for Surgery explores this interface between surgeons and engineers and how it leads to innovation processes, providing clinical results, fundraising and prestige for the academic institution. This book is designed to teach students how engineers can fit in with their intended environment and what type of materials and design considerations must be taken into account in regards to medical ideas. Introduces engineers to basic medical knowledge Provides surgeons and medical professionals with basic engineering principles that are necessary to meet the surgeons' needs

Bioengineering Approaches to Cancer Diagnosis and Treatment is written for an audience of senior undergraduate students and graduate students in mechanical, electrical and biomedical engineering fields and other professionals in medicine. It is ideally structured for teaching and for those who are working in cancer bioengineering or interdisciplinary projects. The book's authors bring a unique perspective from their expertise in immunology, nanobiomaterials and heat transfer. Topical coverage includes an introduction to the fundamentals of bioengineering and engineering approaches for cancer diagnosis, cancer treatment via case studies, and sections on imaging, immunotherapy, cell therapy, drug delivery, ultrasound and microfluidics in cancer treatment. Provides fully supported case studies relating to cancer diagnosis and therapy Pairs the basic fundamentals of engineering and biomedical engineering and applies them to the diagnosis of cancer

An interdisciplinary exploration of whether modern genetics and bioengineering are leading us to a posthuman future.

Current Developments in Biotechnology and Bioengineering: Bioprocesses, Bioreactors and Controls provides extensive coverage of new developments, state-of-the-art technologies, and potential future trends, reviewing industrial biotechnology and bioengineering practices that facilitate and enhance the transition of processes from lab to plant scale, which is becoming increasingly important as such transitions continue to grow in frequency. Focusing on industrial bioprocesses, bioreactors for bioprocesses, and controls for

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bioprocesses, this title reviews industrial practice to identify bottlenecks and propose solutions, highlighting that the optimal control of a bioprocess involves not only maximization of product yield, but also taking into account parameters such as quality assurance and environmental aspects. Describes industrial bioprocesses based on the reaction media Lists the type of bioreactors used for a specific bioprocess/application Outlines the principles of control systems in various bioprocesses

Current Developments in Biotechnology and Bioengineering: Advanced Membrane Separation Processes for Sustainable Water and Wastewater Management - Aerobic Membrane Bioreactor Processes and Technologies consolidates up-to-date research developments in AeMBR systems for wastewater treatments in terms of membrane materials and decorations, reactor designs and fouling mechanisms. It includes discussions on developments in AeMBR research on energy efficiency and fouling control strategies, gaps, future research and application perspectives. This book is a potential resource for membrane separation and AeMBR practitioners, engineers, scientists, educators and students, and public to understand the latest developments and future prospects in membrane technology. Provides the latest comprehensive review in various important aspects of AeMBR Consolidates scattered AeMBR information into a single easily assessable resource Provides state-of-the-art technology development of membrane separation, AeMBR reactor designs, membrane development, advantages and challenges in operational implementation and their appropriate control strategies Presents a comprehensive review on Quorum Quenching (QQ) fouling control strategy, QQ benefits and drawbacks Provides an excellent resource on the latest techniques in characterizing and understanding fouling mechanisms

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