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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

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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.

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bridges the gap between bioengineering and cancer biology. It focuses on a 'bottom up' understanding of the links between molecules, cells, tissues, organs, organisms, and health and functions—all within a bioengineering context. Chapters cover the main methods, technologies and devices that could help diagnose cancer sooner (e.g., ultrasensitive imaging and sensing technologies) and helpful treatments (e.g., new, more targeted therapies). The book takes an interdisciplinary approach that is ideal for those who need the latest information on design techniques and devices that help treat cancer using new, more targeted therapies. By covering the many different ways engineers can deliver innovative solutions to

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tackle cancer, this book is a valuable read for researchers who have an ambition to make an impact on people's life in either an academic or industrial setting. Connects bioengineering and cancer biology, providing information on sensors, imaging, therapies and in-vitro models Presents the most comprehensive coverage in the field of cancer engineering to date Provides an academic introduction to (molecular) bioengineering for students, regardless of scientific background (math's, physics, chemistry, biology) Highlights the unmet medical needs for bioengineers and the main technological breakthroughs to cancer biologists

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Introduction to Engineering Design is a practical, straightforward workbook designed to systematize the often messy process of designing solutions to open-ended problems. From learning about the problem to prototyping a solution, this workbook guides developing engineers and designers through the iterative steps of the engineering design process. Created in a freshman engineering design course over ten years, this workbook has been refined to clearly guide students and teams to success. Together with a series of instructional videos and short project examples, the workbook has space for teams to execute the engineering design process on a challenge of their choice. Designed for university

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students as well as motivated learners, the workbook supports creative students as they tackle important problems. Introduction to Engineering Design is designed for educators looking to use project-based engineering design in their classroom.

MATLAB Programming for Biomedical Engineers and Scientists provides an easy-to-learn introduction to the fundamentals of computer programming in MATLAB. This book explains the principles of good programming practice, while demonstrating how to write efficient and robust code that analyzes and visualizes biomedical data. Aimed at the biomedical engineer, biomedical scientist, and medical

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researcher with little or no computer programming experience, it is an excellent resource for learning the principles and practice of computer programming using MATLAB. This book enables the reader to:

- Analyze problems and apply structured design methods to produce elegant, efficient and well-structured program designs
- Implement a structured program design in MATLAB, making good use of incremental development approaches
- Write code that makes good use of MATLAB programming features, including control structures, functions and advanced data types
- Write MATLAB code to read in medical data from files and write data to files
- Write MATLAB code that is efficient and robust to errors in input data

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Write MATLAB code to analyze and visualize medical data, including imaging data For a firsthand interview with the authors, please visit <http://scitechconnect.elsevier.com/matlab-programming-biomedical-engineers-scientists/> To access student materials, please visit <https://www.elsevier.com/books-and-journals/book-companion/9780128122037> To register and access instructor materials, please visit <http://textbooks.elsevier.com/web/Manuals.aspx?isbn=9780128122037> Many real world biomedical problems and data show the practical application of programming concepts Two whole chapters dedicated to the practicalities of designing and implementing more complex programs An accompanying website containing freely available

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data and source code for the practical code examples, activities, and exercises in the book For instructors, there are extra teaching materials including a complete set of slides, notes for a course based on the book, and course work suggestions

The Clear, Well-Organized Introduction to Thermodynamics Theory and Calculations for All Chemical Engineering Undergraduate Students This text is designed to make thermodynamics far easier for undergraduate chemical engineering students to learn, and to help them perform thermodynamic calculations with confidence. Drawing on his award-winning courses at Penn State, Dr. Themis Matsoukas

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focuses on “why” as well as “how.” He offers extensive imagery to help students conceptualize the equations, illuminating thermodynamics with more than 100 figures, as well as 190 examples from within and beyond chemical engineering. Part I clearly introduces the laws of thermodynamics with applications to pure fluids. Part II extends thermodynamics to mixtures, emphasizing phase and chemical equilibrium. Throughout, Matsoukas focuses on topics that link tightly to other key areas of undergraduate chemical engineering, including separations, reactions, and capstone design. More than 300 end-of-chapter problems range from basic calculations to realistic environmental applications;

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these can be solved with any leading mathematical software. Coverage includes

- Pure fluids, PVT behavior, and basic calculations of enthalpy and entropy
- Fundamental relationships and the calculation of properties from equations of state
- Thermodynamic analysis of chemical processes
- Phase diagrams of binary and simple ternary systems
- Thermodynamics of mixtures using equations of state
- Ideal and nonideal solutions
- Partial miscibility, solubility of gases and solids, osmotic processes
- Reaction equilibrium with applications to single and multiphase reactions

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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

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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

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

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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

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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

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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.

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