

Biomedical Engineering: Bridging Medicine and Technology (Cambridge Texts in Biomedical Engineering)

By W. Mark Saltzman

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The second edition of this popular introductory undergraduate textbook uses examples, applications, and profiles of biomedical engineers to show students the relevance of the theory and how it can be used to solve real problems in human medicine. The essential molecular biology, cellular biology, and human physiology background is included for students to understand the context in which biomedical engineers work. Updates throughout highlight important advances made over recent years, including iPS cells, microRNA, nanomedicine, imaging technology, biosensors, and drug delivery systems, giving students a modern description of the various subfields of biomedical engineering. Over two hundred quantitative and qualitative exercises, many new to this edition, help consolidate learning, whilst a solutions manual, password-protected for instructors, is available online. Finally, students can enjoy an expanded set of leader profiles in biomedical engineering within the book, showcasing the broad range of career paths open to students who make biomedical engineering their calling.

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Editorial Review

Review
"This book sets a gold standard for textbooks in biomedical engineering. It is beautifully and clearly written, and explains all aspects, old and very new, of biomedical engineering in ways that are both exciting to the reader as well as easy to understand."
Robert Langer, Massachusetts Institute of Technology

"This textbook is a wonderful summary of the field of biomedical engineering - a must-have for any faculty member teaching an introductory BME course. As usual, Professor Saltzman has provided rich context and broad examples; he does an excellent job of weaving in valuable scenarios that are realistic, yet interesting - a great tool for engaging students. There are many creative and useful features to the text: the figures and illustrations provide much value to understanding the material, the problem sets offer both conceptual and quantitative review of the material, and the 'Key Concepts and Definitions' and 'Useful Links' sections at the end of each chapter are very practical for a student new to the field of BME. Of particular note, the 'Profiles in BME' vignettes for each chapter add a personal touch and serve to connect students to role models who are real people (with real stories) making an impact on the world."
Christine E. Schmidt, University of Florida

"This is an excellent book that covers the fundamentals of a broad array of specific fields within biomedical engineering. This textbook will certainly be adopted by many introductory biomedical engineering courses due to its meaningful organization, clear writing, illuminative figures, and variety of problems for students to work through. Its breadth and scope will stimulate all readers. Once again, Mark Saltzman has accomplished a major achievement by providing such a comprehensive text for students and educators alike."
Melissa Krebs, Colorado School of Mines

"This is a truly exceptional textbook. It is completely up-to-date and comprehensive, yet it is so readable that you can dip in at any page and find something that grabs you. It is designed for undergraduate students, and is a tremendous resource for course development - but equally, it is one of those essential bookshelf books, the one you will turn to when you need 'to brush up on your biology', or 'get your head straight on the engineering stuff'. A must for anyone interested in the very far-reaching field of biomedical engineering."
Quentin Pankhurst, University College London

About the Author
W. Mark Saltzman is the Goizueta Professor of Chemical and Biomedical Engineering at Yale University, and was the founding Chair of the Yale Department of Biomedical Engineering. He has taught numerous courses on topics in biomedical engineering over the last three decades, and has been widely recognised for his excellence in research and teaching. He is a Fellow of the American Institute for Medical and Biological Engineering and a Fellow of the Biomedical Engineering Society. He is also the recipient of the 2014 Mines Medal and has been elected to the Institute of Medicine.

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