

ACADEMIC PRESS SERIES IN BIOMEDICAL ENGINEERING



Introduction to

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Introduction to Biomedical Engineering, John Denis Enderle, Joseph D. Bronzino, Academic Press, 2012, 0123749794, 9780123749796, 1253 pages. Introduction to Biomedical Engineering is a comprehensive survey text for biomedical engineering courses. It is the most widely adopted text across the BME course spectrum, valued by instructors and students alike for its authority, clarity and encyclopedic coverage in a single volume. Biomedical engineers need to understand the wide range of topics that are covered in this text, including basic mathematical modeling; anatomy and physiology; electrical engineering, signal processing and instrumentation; biomechanics; biomaterials science and tissue engineering; and medical and engineering ethics. Enderle and Bronzino tackle these core topics at a level appropriate for senior undergraduate students and graduate students who are majoring in BME, or studying it as a combined course with a related engineering, biology or life science, or medical/pre-medical course. * NEW: Each chapter in the 3rd Edition is revised and updated, with new chapters and materials on compartmental analysis, biochemical engineering, transport phenomena, physiological modeling and tissue engineering. Chapters on peripheral topics have been removed and made available online, including optics and computational cell biology. * NEW: many new worked examples within chapters * NEW: more end of chapter exercises, homework problems * NEW: PowerPoint slides available to adopting instructors * Readers benefit from the experience and expertise of two of the most internationally renowned BME educators * Instructors benefit from a comprehensive teaching package including a fully worked solutions manual * A complete introduction and survey of BME * NEW: new chapters on compartmental analysis, biochemical engineering, and biomedical transport phenomena * NEW: revised and updated chapters throughout the book feature current research and developments in, for example biomaterials, tissue engineering, biosensors, physiological modeling, and biosignal processing. * NEW: more worked examples and end of chapter exercises * NEW: PowerPoint lecture available to adopting instructors * As with prior editions, this third edition provides a historical look at the major developments across biomedical domains and covers the fundamental principles underlying biomedical engineering analysis, modeling, and design *bonus chapters on the web include: Rehabilitation Engineering and Assistive Technology, Genomics and Bioinformatics, and Computational Cell Biology and Complexity. .

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Principles of Biomedical Engineering , Sundararajan V. Madhally, 2010, Technology & Engineering, 481 pages. Describing the role of engineering in medicine today, this comprehensive volume covers a wide range of the most important topics in this burgeoning field. Supported with over

Introduction to Biomedical Engineering: Biomechanics and Bioelectricity, Part 1 Biomechanics and Bioelectricity, Douglas A. Christensen, 2009, Science, 102 pages. Intended as an introduction to the field of biomedical engineering, this book covers the topics of biomechanics (Part I) and bioelectricity (Part II). Each chapter emphasizes a

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Introduction to Biomedical Engineering , Charles Lessard, Fidel Fernandez, Jun 25, 2009, , 128 pages. .

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