



# Introduction to Biomedical Engineering, Second Edition

By John D. Enderle, Joseph D. Bronzino, Susan M. Blanchard

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*Introduction to Biomedical Engineering, Second Edition* provides a historical perspective of the major developments in the biomedical field. Also contained within are the fundamental principles underlying biomedical engineering design, analysis, and modeling procedures. The numerous examples, drill problems and exercises are used to reinforce concepts and develop problem-solving skills making this book an invaluable tool for all biomedical students and engineers.

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- \* 60% update from first edition to reflect the developing field of biomedical engineering
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"...this is certainly the most comprehensive textbook of its kind, and is recommended not only for undergraduate BME students but also for BME engineers in the industry or at the graduate level in academia, as a reference book for a quick dive into new topics, or for an up-to-date survey of recent developments in this field." Amit Gefen, *BioMedical Engineering*

"Provides the most thorough review of concepts from biomaterials and tissue engineering to bioinstrumentation and medical imaging." Armando Perraioli, Italy, in the IEEE Engineering in Medicine and Biology Magazine

### **About the Author**

John Enderle is among the best known biomedical engineers in the world. He is Editor-in-Chief of the IEEE EMB Magazine (Engineering in Medicine and Biology Society, the key electrical systems-oriented BME society). An electrical engineer by training, he is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), a past-president of the IEEE Engineering in Medicine and Biology Society, and a Fellow of the American Institute for Medical and Biological Engineering (AIMBE). He is also an ABET program evaluator for bioengineering programs and a member of the American Society for Engineering Education.

Joseph Bronzino is one of the most renowned biomedical engineers in the world. He is a former president of the IEEE Engineering in Medicine and Biology, and well-known educator. He is editor-in-chief of the **Biomedical Engineering Handbook** from CRC Press, and is currently editor of the **Academic Press Series in Biomedical Engineering**. He is the Vernon Roosa Professor of Applied Science at Trinity College in Hartford, Connecticut.

Susan Blanchard is among the best known biomedical engineers in the world. She is the outgoing president of the IEEE Engineering in Medicine and Biology society.

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