



# Biomedical Engineering Fundamentals (The Biomedical Engineering Handbook, Fourth Edition) (Volume 1)

By Joseph D. Bronzino, Donald R. Peterson

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Biomedical Engineering Fundamentals, the first volume of the handbook, presents material from respected scientists with diverse backgrounds in physiological systems, biomechanics, biomaterials, bioelectric phenomena, and neuroengineering.

More than three dozen specific topics are examined, including cardiac biomechanics, the mechanics of blood vessels, cochlear mechanics, biodegradable biomaterials, soft tissue replacements, cellular biomechanics, neural engineering, electrical stimulation for paraplegia, and visual prostheses. The material is presented in a systematic manner and has been updated to reflect the latest applications and research findings.

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#### About the Author

**Joseph D. Bronzino** is the founder and president of the Biomedical Engineering Alliance and Consortium (BEACON) in Hartford, Connecticut. He earned a PhD in electrical engineering from Worcester Polytechnic Institute in Massachusetts. Dr. Bronzino has received the Millennium Award from IEEE/EMBS and the Goddard Award from Worcester Polytechnic Institute for Professional Achievement. He is the author of more than 200 articles and 11 books.

Donald R. Peterson is a professor of engineering and dean of the College of Science, Technology, Engineering, Mathematics, and Nursing at Texas A&M University–Texarkana. He earned a PhD in biomedical engineering from Worcester Polytechnic Institute in Massachusetts. Dr. Peterson's recent research focuses on measuring and modeling human, organ, and/or cell performance, including exposures to various physical stimuli and the subsequent biological responses. Dr. Peterson has published more than 50 journal articles and 12 reference books.

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