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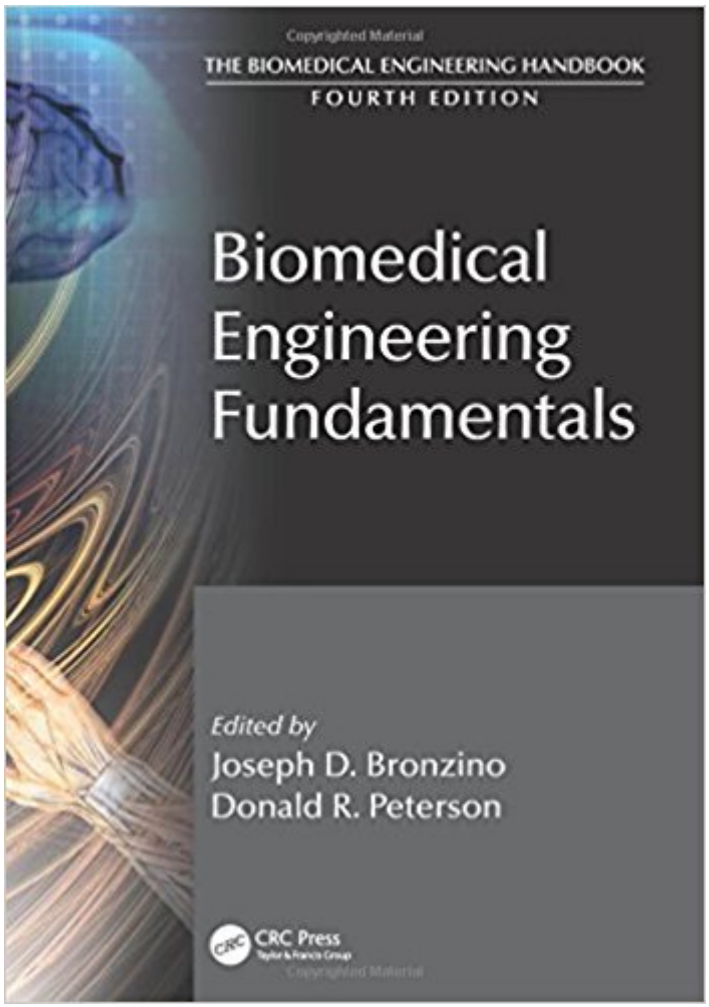

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Synopsis

Known as the bible of biomedical engineering, The Biomedical Engineering Handbook, Fourth Edition, sets the standard against which all other references of this nature are measured. As such, it has served as a major resource for both skilled professionals and novices to biomedical engineering. 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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Customer Reviews

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

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