

Biomechanics of Artificial Organs and Prostheses (Advances in Bioengineering Research and Applications)

By Megh R Goyal

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Artificial organs are one of the world’s greatest advancements in medicine. This book covers cardiopulmonary bypass surgery; artificial hearts and pacemakers; stenting and ballooning; artificial lungs, kidneys, and knees, dental protheses; and more. It is a one-stop source of basic knowledge and techniques necessary to understand, design, develop, and evaluate artificial organs and prostheses. It covers the basic principles and applications, types and mechanics, and biomaterials. It is a must for physicians, scientists, and educators.

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Editorial Review

Review

"What a gem?with simple language and vivid illustrations! The photos and data deepened my understanding on biomechanics and biomaterials of artificial organs and prostheses and the way they apply to our daily life. Each chapter builds the understanding and shows the author’s mastery of the subject. Before I sat down to read this book, I was not sure how much I would understand the content, but now I firmly believe that this book is a must read for all with interest in bioengineering and for readers who want to make their health as their first priority."
?Professor Raj Bansal, Piscataway School District, Piscataway NJ; Private Consultant [English Language]

About the Author

Dr. Megh Raj Goyal obtained his BSc degree from Punjab Agricultural University, Ludhiana, India. He obtained his MS and PhD degrees from Ohio State University, USA. At present, he is a retired professor at the University of Puerto Rico. He is also Senior Acquisitions Editor for Apple Academic Press, Inc., in the areas of agricultural science and biomedical engineering, as well as Editor-in-Chief of the book series Advances in Bioengineering Research and Applications, published by AAP. He has published more than 200 technical articles in professional journals, a textbook on the elements of agroclimatology, conference proceedings on biomechanics, and two bibliographies on micro irrigation. He is also the author of the recent Apple Academic Press book *Management of Drip/Trickle or Micro Irrigation.* He is a professionally licensed engineer.

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Irma Lovern:

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