

Biomedical Devices

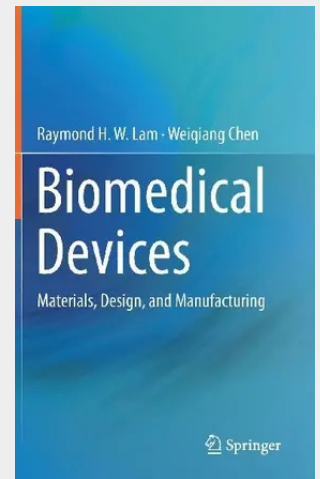
Materials, Design, and Manufacturing

This textbook provides essential knowledge for biomedical product development, including material properties, fabrication processes and design techniques for different applications, as well as process design and optimization. This book is multidisciplinary and readers can learn techniques to apply acquired knowledge for various applications of biomedical design. Further, this book encourages readers to discover and convert newly reported technologies into products and services for the future development of biomedical applications. This is an ideal book for upper-level undergraduate and graduate students, engineers, technologists, and researchers working in the area of biomedical engineering and manufacturing.

This book also:

- Provides a comprehensive set of fundamental knowledge for engineering students and entry level engineers to design biomedical devices
- Offers a unique approach to manufacturing of biomedical devices by integrating and formulating different considerations in process design tasks into optimization problems
- Provides a broad range of application examples to guide readers through the thinking process of designing and manufacturing biomedical devices, from basic understanding about the requirements and regulations to a set of manufacturing parameters

Provides a fundamental knowledge for engineering students and engineers to design biomedical devices
Offers a unique approach to the design and manufacturing of biomedical devices by integrating different considerations in process design tasks into optimization problems
Provides many exercises to guide readers through the process of designing and manufacturing biomedical devices, from basic understanding about the requirements and regulations to a set of manufacturing parameters



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