

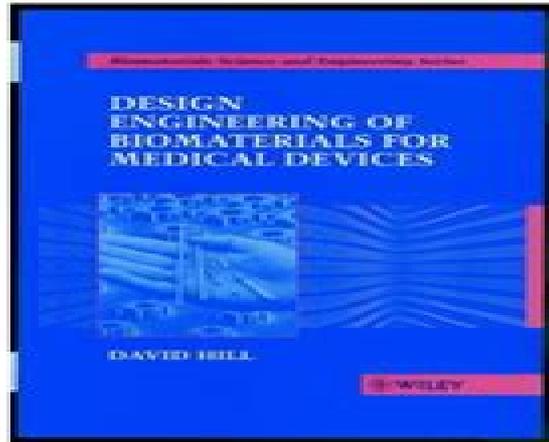
Design Engineering of Biomaterials for Medical Devices

David Hill

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July 1998



Description

The design of medical devices and related products is a crucial factor in their safe and effective utility. This book addresses the increasing emphasis on well designed and developed products. It reviews basic design principles and examines what the customer needs, the characteristics of materials that might meet those needs and the mathematical calculations for assessing the stresses that may be placed on the product.

Cutting through unnecessary technical data, this invaluable book presents comprehensive facts and figures relating to the many materials available for use in medical devices. Chapters in Part One address types of materials and also discuss biocompatibility, as well as batteries and fibre optics, while Part Two concentrates on design and manufacturing methods, including information on prototyping, sterilisation, standards and quality control. The penultimate part of the book speculates on future development trends in medical device engineering and considers the impact on the environment of medical device manufacture and disposal. Information on sourcing is provided in the final part. Design Engineering of Biomaterials for Medical Devices discusses the fundamentals and applied nature of:

- * Ferrous and non-ferrous metals
- * Polymers and PVC
- * Non metallic/non-polymer materials
- * Adhesives
- * Filters and membranes
- * Micro-engineering
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Design Engineering Of Biomaterials For Medical Devices

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