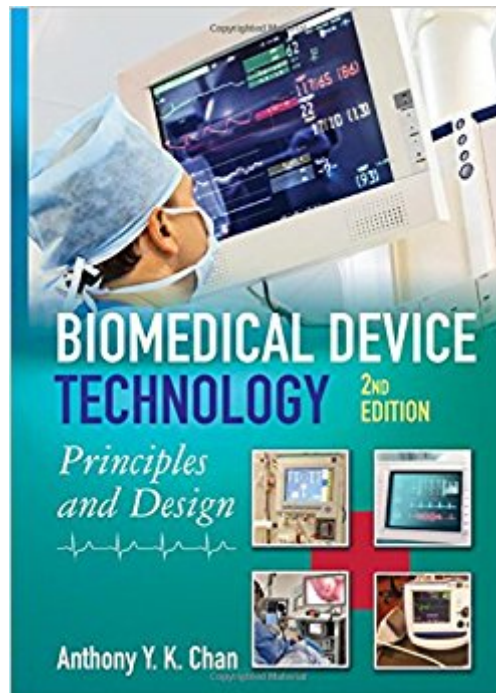




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# Biomedical Device Technology: Principles And Design



## Synopsis

This book provides a comprehensive approach to studying the principles and design of biomedical devices as well as their applications in medicine. It is written for engineers and technologists who are interested in understanding the principles, design and applications of medical device technology. The book is also intended to be used as a textbook or reference for biomedical device technology courses in universities and colleges. It focuses on the functions and principles of medical devices (which are the invariant components) and uses specific designs and constructions to illustrate the concepts where appropriate. This book selectively covers diagnostic and therapeutic devices that are either commonly used or that their principles and design represent typical applications of the technology. In this second edition, almost every chapter has been revised--some with minor updates and some with significant changes and additions. For those who would like to know more, a collection of relevant published papers and book references is added at the end of each chapter. Based on feedback, a section on 'Common Problems and Hazards' has been included for each medical device. In addition, more information is provided on the indications of use and clinical applications. Two new areas of medical device technology have been added in the two new chapters on 'Cardiopulmonary Bypass Units' and 'Audiology Equipment.'

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Now in a thoroughly updated second edition, *Biomedical Device Technology: Principles and Design* provides a comprehensive approach to studying the principles and design of biomedical devices as

well as their applications in medicine. It is written specifically for engineers and technologists who are interested in understanding the principles, design and applications of medical device technology. Biomedical Device Technology: Principles and Design is also intended to be used as a textbook or reference for biomedical device technology courses in universities and colleges. It focuses on the functions and principles of medical devices (which are the invariant components) and uses specific designs and constructions to illustrate the concepts where appropriate. Biomedical Device Technology: Principles and Design selectively covers diagnostic and therapeutic devices that are either commonly used or that their principles and design represent typical applications of the technology. In this second edition, almost every chapter has been revised -- some with minor updates and some with significant changes and additions. A collection of relevant published papers and book references is added at the end of each chapter. Based on feedback, a section on 'Common Problems and Hazards' has been included for each medical device. In addition, more information is provided on the indications of use and clinical applications. Two new areas of medical device technology have been added in the two new chapters on 'Cardiopulmonary Bypass Units' and 'Audiology Equipment'. Biomedical Device Technology: Principles and Design is strongly recommended for medical school curriculums and academic library Medical Technology instructional reference collections and supplemental studies reading lists. --James A. Cox/Library Bookwatch: June 2016

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