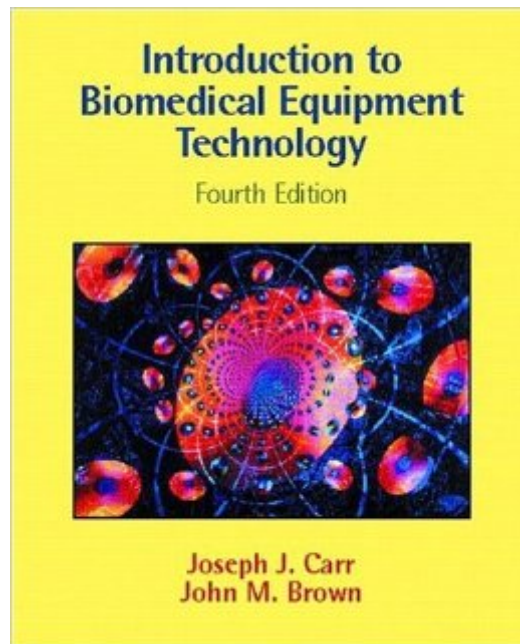


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# Introduction To Biomedical Equipment Technology (4th Edition)



## Synopsis

This industry standard on biomedical equipment is an important resource for providing a broad technological knowledge base, and deep coverage of critical points. It serves as a handy reference on unfamiliar topicsâ”organized so that users can easily look up topics of interest, study areas where they are weak or where they have not worked in some time. Chapter topics include an overview of the human body; an introduction to biomedical instrumentation and measurement; basic theories of measurement; signals and noise; electrodes, sensors, and transducers; bioelectric amplifiers; electrocardiograph equipment; respiratory therapy equipment; instrumentation for measuring brain parameters; care and feeding of battery operated equipment; computers in biomedical equipment; and quality assurance and continuous quality improvement. For working professionals in biomedical equipment, and for the engineers and technologists who design it.

## Book Information

Hardcover: 743 pages

Publisher: Pearson; 4 edition (June 9, 2000)

Language: English

ISBN-10: 0130104922

ISBN-13: 978-0130104922

Product Dimensions: 7.6 x 1.7 x 9.2 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 starsÂ” See all reviewsÂ” (20 customer reviews)

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## Customer Reviews

Good subject coverage, knowledgeable author, and plenty of uncluttered figures makes this book very worthwhile. The only thing missing from this excellent book is an update. Although this is the third edition (1998), almost all of the equipment photographs are from the early-to-mid 1970's. An extensive and broad Suggested Reading section follows most chapters but again far far too many references are to early 1970's books and manuals. An update could earn this book a 5+ rating.

While I consider this book one of the cornerstones of BMET education, a comprehensive update is

very overdue. In addition to this edition, I also possess the first edition of the Brown and Carr book, and while that edition is considerably smaller, most of the information, figures, and photographs are reproduced in the fourth edition. Granted, much of the information is still valid, but it does not truly represent the state of the field today. Their cause would be helped if they showed more accurate representations of what constitutes standard equipment of today. Additionally the authors spend a valuable amount of time explaining the theories behind measurement methods and electronic theories, the technology described is invariably that of the 1970s with little time or attention spent on what is in use now. An aspiring Biomedical Equipment Technician should read this book, but should bear in mind that it will only go so far in preparing them for the modern day BMET field. I would love to see Brown and Carr throw out all of the figures and photographs for the fifth edition, just to make them actually re-visit the state-of-the-art.

Book talks about human anatomy very briefly in chapter 1. I recommended taking a Anatomy & Physiology class at your local college if you did not receive a biomedical engineering degree. Chapter 2 talks about the heart and circulatory system very well. Chapter 4 talks about measurements such as direct vs. indirect measurements, null measurements, and factors that affect measurements such as error, accuracy, precision. It also discusses measurement errors. Chapter 6 is a good chapter about transducers. Chapter 8 talks about electrocardiography and is pretty good. Chapter 9 talks about pressure, invasive blood pressure measurements, non invasive blood pressure measurements, cardiac output and thermodilution. It also discusses very well defibrillators, atrial vs. ventricular fibrillation. It also talks about pacemakers and the heart lung machine. Chapter 10 talks about human respiration and its measurements. Chapter 11 talks about respiratory therapy equipment. Chapter 12 talks about the nervous system. Chapter 16 talks about medical lab equipment and to me the chapter is outdated as far as the equipment they discuss. Chapter 17 talks about ultrasound and is not that great. Appendix D in the book does a good job at discussing electrical safety such as micro vs. macro shock, leakage current, isolation transformers, line isolation monitors, and GFCI's. The chapters I didn't discuss chapters 3,5,7,13-15,18-27 were not very good or informative.

I received this book in its plastic shrink wrap covering, thus ensuring that it was not used. Although this book is listed as the US hardcover edition, that does not necessarily mean that the book is what I would call a premium edition. Although, the binding is glossy hardcover; the pages inside are a non glossy black and white, shades of grey, printing that does have a less than perfect copied

appearance with a few flaws in the printing. So if you are expecting a full color illustration with glossy pages as in traditional text books, this is not. In my guess why this book was selling for about 1/2 the price new as other new books. As far as content, I used this book for a semester of college class. We studied most of the chapters. Although, I thought that the chapters were well organized; much material was old and dated, though still valid. Many changes in technology and procedures have occurred since then and I believe that the book needs a thorough updating. In conclusion, the text book did its job, and was a requirement of the class.

This book is over 12 years out of date and has several obvious mistakes, can only wonder how many others there are. May be a useful book if you are going to be repairing equipment from the 80s and 90s, but not if its modern. I recommend something more current.

The content is out of date but the book is required for the class I am taking. The fundamentals are all there. Book arrived well packed in new condition, no complaints.

My son needed this for school. He's been on the President's List a couple times - it must be good read.

FAST SHIPPING, ITEM EXACTLY AS DESCRIBED, GREAT PRICE, EXCELLENT TRANSACTION, THANKS

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