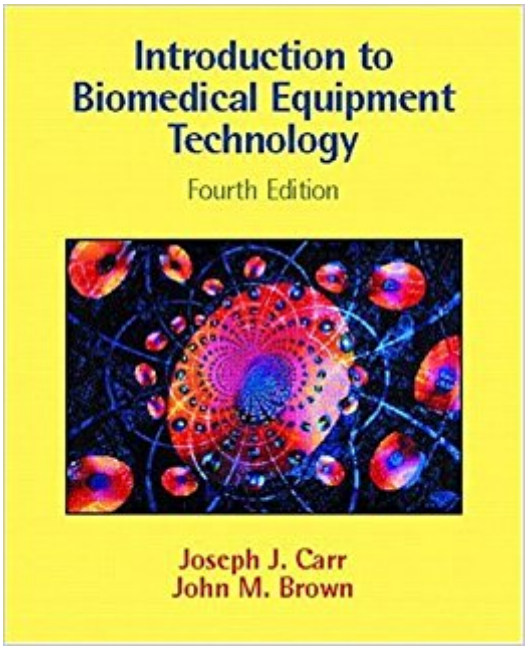
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Introduction To Biomedical Equipment Technology (4th Edition)



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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

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Customer Reviews

Since the publication of Carr and Brown’s biomedical equipment text more than ten years ago, it has become the industry standard. Now, this completely revised second edition promises to set the pace for modern biomedical equipment technology. --This text refers to an out of print or unavailable edition of this title.

Introduction to Biomedical Equipment Technology is recognized as the premier book used to train biomedical equipment professionals, and serves as an excellent reference for these professionals in

the field. It is also a valuable reference work for engineers and technologists who design biomedical equipment. Significant changes to this edition are: A new chapter on quality Improvement is included. New sections on hemodialysis machines, the Y2K problem, and new computer devices in medicine are provided. Key features have been incorporated to address current issues and important technological advances.

Book talks about human anatomy very breifly 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 measurments, and factors that affect measurments such as error, accuracy, precision. It also discusses measurement errors. Chapter 6 is a good chapter about trasducers. 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. Chapeter 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 x-formers, 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.

Don't buy this book. It's the wrong book. The picture is misleading. Check the isbn number before purchasing. Takes a long time to get and it comes open in the plastic on purpose so that you can't return it. This is the 2nd time I've had this happen. I've had to order this book 3 times now!

I received this book in its plastic shrink wrap covering, thus ensuring that is was not used. Although this book is listed as the US hardcover edition, that does not necessary 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 traaditional text books, this is not. I is 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 occured since then and I believe that the book needs a through updating. In conclussion, the text book did its job, and was a requirement of the class.

Fast Shipping and Great Price

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

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.

Good the book

Thanks

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