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Título: Introduction To Biomedical Engineering Technology

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Precio: \$1217.00

Editorial:

Año: 2007

Tema:

Edición: 1^a

Sinopsis

ISBN: 9780849385339

Medical devices are often complex and while there are differences in design, the principles of operation and more importantly the physiological and anatomical characteristics on which they operate are universal. Introduction to Biomedical Engineering Technology explains the uses and applications of medical technology and the principles of medical equipment management in order to familiarize students with their prospective work environment.

The book describes the technological devices, various hardware, tools, and test equipment used in today's healthcare arena. Photographs of representative equipment, the technical and physiological anatomical basis or their function, and where they are commonly found in hospitals are detailed for many biomedical devices, ranging from defibrillators to electrosurgery units. The text includes appendices that supply practical information, such as normal medical values, regulations concerning medical devices, and information on different educational tracks.

Introduction to Biomedical Engineering Technology supplies an essential overview of clinical equipment and the devices that are used directly with patients in the course of their care for diagnostic or treatment purposes. The author's practical approach and organization, detailing specific functions of everyday use, prepares students for situations they will encounter on the job.