



Electronics in Medicine and Biomedical Instrumentation

Nandini K. Jog

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Medical electronics is using vast and varied applications in numerous spheres of human endeavour—ranging from communication, biomedical engineering to re-creational activities. This book in its second edition continues to give a detailed insight into the basics of human physiology. It also educates the readers about the role of electronics in medicine and the various state-of-the-art equipments being used in hospitals around the world.

The text presents the reader with a deep understanding of the human body, the functions of its various organs, and then moves on to the biomedical instruments used to decipher with greater precision the signals in relation to the body's state of well-being. The book incorporates the latest research and developments in the field of biomedical instrumentation. Numerous diagrams and photographs of medical instruments make the book visually appealing and interesting.

Primarily intended as a text for the students of Electronics and Instrumentation Engineering and Biomedical Engineering, the book would also be of immense interest to medical practitioners.

NEW TO THIS EDITION

- Magnetoencephalography (MEG) and features of Mediscope software used for medical imaging
- Topics on optical fiber transducers, and fiber optic microphones used in MRI scanning
- Discusses in detail the medical instruments like colorimeter, spectro-photometer and flame photometry and auto analyzers for the study of toxic levels in the body
- Includes a detailed description of pacemakers and defibrillators, and tests like Phonocardiography, Vector Cardiography, Nuclear stress test, MRI stress test
- Addition of the procedure of dialysis, hemodialysis and peritoneal dialysis

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