



# Biomedical Instrumentation: Technology and Applications (Mechanical Engineering)

By R. Khandpur

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## **Editorial Review**

From the Back Cover

### **COMPREHENSIVE, DETAILED COVERAGE OF THE DESIGN, MAINTENANCE, AND OPERATION OF THE LATEST BIOMEDICAL DEVICES**

*Biomedical Instrumentation* rigorously and clearly explains the latest developments and basic engineering principles of the entire spectrum of biomedical devices -- ranging from their physiological basis to diagnostic and therapeutic devices in medical imaging systems.

Written by an author with nearly four decades of experience in R&D, technology development, and education and training, this heavily illustrated resource details the fundamental principles of operation and the performance parameters of a wide variety of instruments, including:

- Recording and monitoring instruments
- Measurement and analysis techniques
- Therapeutic equipment
- Digital radiographic equipment
- Nuclear medical imaging
- Lithotriptors
- Anesthesia machines
- Ventilators
- Radiotherapy equipment
- Automated drug delivery systems

### **A COMPLETE SINGLE SOURCE REFERENCE FOR TODAY'S LATEST BIOMEDICAL DEVICES**

\* Measuring \* Recording and Monitoring Instruments \* Fundamentals of Medical Instrumentation \* Bioelectric Signals and Electrodes \* Physiological Transducers \* Recording Systems \* Biomedical Recorders \* Patient Monitoring Systems \* Arrhythmia and Ambulatory Monitoring Instruments \* Biomedical Telemetry and Telemedicine \* Oximetry; Blood Flowmeters \* Cardiac Output Measurement \* Pulmonary Function Analyzers \* Clinical Laboratory Instruments \* Blood Gas Analyzers \* Blood Cell Counters \* Audiometers and Hearing Aids \* Patient Safety \* Modern Imaging Systems \* X-Ray Machines and Digital Radiography \* X-Ray Computed Tomography \* Nuclear Medical Imaging Systems \* Ultrasonic Imaging Systems \* Thermal Imaging Systems \* Therapeutic Equipment \* Cardiac Pacemakers \* Cardiac Defibrillators \* Instruments for Surgery \* Laser Applications in the Biomedical Field \* Physiotherapy and Electrotherapy Equipment \* Haemodialysis Machines \* Lithotriptors; Anesthesia Machines \* Ventilators \* Radiotherapy Equipment \* Automated Drug Delivery Systems.

#### **About the Author**

**R. S. KHANDPUR** is currently Director General, Pushpa Gujral Science City, Kapurthala, Punjab. Prior to this, he was Director General, Centre for Electronics Design and Technology of India (CEDTI), an autonomous Scientific Society of the Ministry of Communication and Information Technology, Government of India. He was the Founder/Director of CEDTI, Mohali, which is the first ISO-9002 certified organization of the Ministry of Information Technology.

Mr. Khandpur is the recipient of the 1989 Independence Day Award by the National Research and Development Corporation and IETE (Institute of Electronics and Telecommunication Engineers) for outstanding contributions toward the development of the electronics industry. He is Member, Board of Governors, Punjab Technical University; Director, Board of Directors, Electronics Corporation of Punjab; AICTE Distinguished Visiting Professor and Member, Vision Group on IT, established by the Punjab Government.

He has served as a scientist for 24 years in CSIO, Chandigarh, a constituent laboratory of the Council of Scientific and Industrial Research (CSIR), as Head of the Medical Instruments Division (1975-1989) and Head of Electronics Division (1986-1989). He was the Project Coordinator for India's first Medical Linear Accelerator Machine for cancer treatment, installed at PGI, Chandigarh, in 1989. Mr. Khandpur is a Member of the IEEE (Institute of Electronics and Electrical Engineers), USA; a fellow of IETE (Institute of Electronics and Telecommunication Engineers), and Member, Society for Engineering in Medicine and Biology, USA.

He has over 37 years of experience in R&D, technology development, technology transfer, education and training, consultancy, and management at national and international levels. Mr. Khandpur holds 6 patents of innovative designs, has authored 7 books, and has published over 60 research and review papers.

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