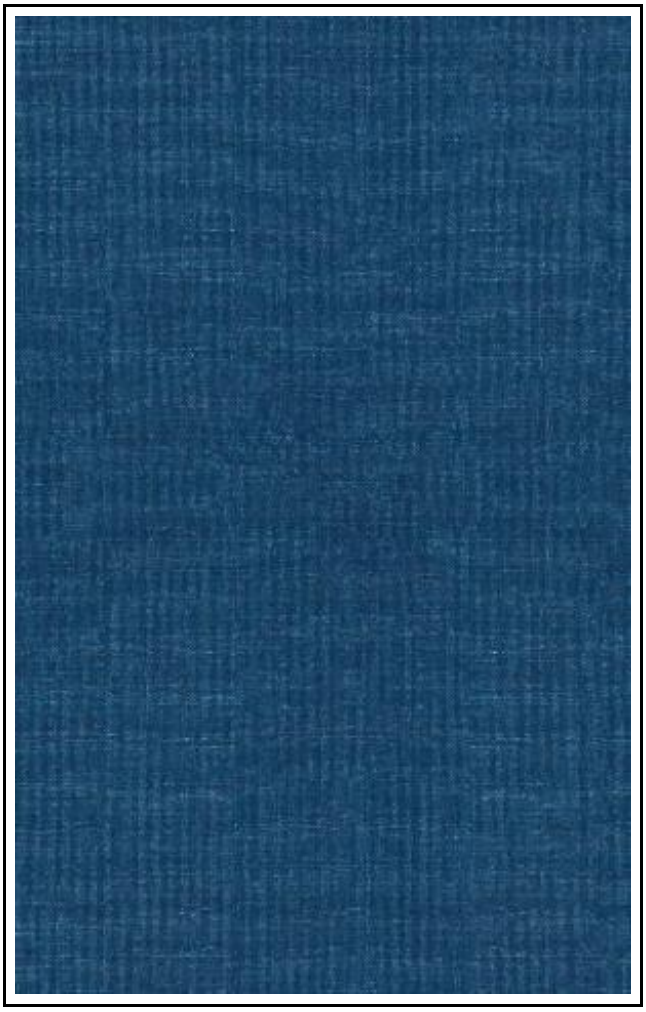
Biomedical Instruments: Theory and Design (Hardback)



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(Bell Pacocha)

BIOMEDICAL INSTRUMENTS: THEORY AND DESIGN (HARDBACK)

Elsevier Science Publishing Co Inc, United States, 1992. Hardback. Book Condition: New. 2nd Revised edition. 240 x 154 mm. Language: English . Brand New Book. This sourcebook offers all the information you need to understand and design biomedical instruments. Biomedical Instruments contains extensive analysis of signal processing electronic design for medical instruments, in-depth descriptions of design methods for medical transducers, and an introduction to medical imaging and tomographic algorithms. Transducers covered include variable R, L, and C, piezoelectric, electrodynamic and magnetostrictive, force balance, and fiber optic. Operational amplifiers, analog filters, biotelemetry, discriminators, phase-locked loops, and microprocessors are covered in a comprehensive section on circuitry. Exercises and problems accompany each chapter of the text. The book aims at presenting a physical explanation for the behavior of various transducer, developing the mathematical theory applicable to these transducers, and discussing the practical design of biomedical instruments. Our hope is that the book will serve as a text for biomedical engineering students who will be engaged in the design of instruments, as a reference book for medical instrument designers, and as a source of ideas for the large numbers of biomedical research workers who, at one time or another, must build a gadget to implement their research. Numerous examples of medical instrument design are presented in order to clarify the mathematical analyses. This book brings the volume up-to-date with new material on microprocessor applications, fiber optic instruments, and modern imaging systems. It explains behavior of transducers and develops mathematical theory for transducers. It discusses the design of biomedical instruments and serves as a text for biomedical engineers or a reference for medical instrument designers. It also provides suitable homework problems at the end of each chapter.

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