



Physical Instrumentation in Medicine and Biology

D. J. Dewhurst

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Physical Instrumentation in Medicine and Biology provides a course of study and practical assignments encompassing the basic principles of medical and biological instrumentation and common features of design and construction.

The book first offers information on construction design and current, voltage, and resistance. Discussions focus on instrument design, soldering, resistors, noise in resistors, combinations of resistors, and batteries. The publication then ponders on meters, potentiometer and Wheatstone bridge, and alternating currents.

The manuscript takes a look at capacitance, inductance, and transistor amplifier. Topics include condensers as used in electronic equipment, charge and discharge of condenser-resistor combination, measurement of capacitance, calculation of impedances in series, saturation, transistor output characteristic, stability, and selection of transistor types. The publication then examines valve amplifier, power supplies, regulated power supplies, and cathode ray tube. The transfer characteristics of triode, pentodes, valve amplifier, types of rectifier circuit, and filtering are discussed.

The book is a valuable reference for readers interested in physical instrumentation in medicine and biology.

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