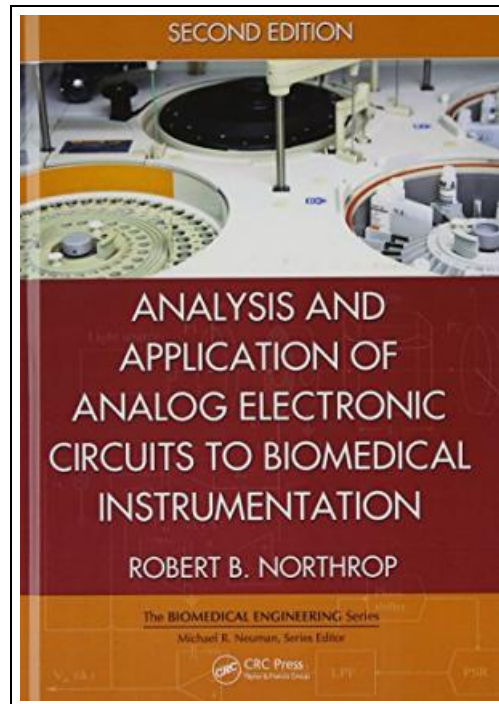


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ANALYSIS AND APPLICATION OF ANALOG ELECTRONIC CIRCUITS TO BIOMEDICAL INSTRUMENTATION, SECOND EDITION (HARDBACK)



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Taylor Francis Inc, United States, 2012. Hardback. Condition: New. 2nd New edition. Language: English . Brand New Book. Analysis and Application of Analog Electronic Circuits to Biomedical Instrumentation, Second Edition helps biomedical engineers understand the basic analog electronic circuits used for signal conditioning in biomedical instruments. It explains the function and design of signal conditioning systems using analog ICs- the circuits that enable ECG, EEG, EMG, ERG, tomographic images, biochemical spectrograms, and other crucial medical applications. This book demonstrates how op amps are the keystone of modern analog signal conditioning system design and illustrates how they can be used to build instrumentation amplifiers, active filters, and many other biomedical instrumentation systems and subsystems. It introduces the mathematical tools used to describe noise and its propagation through linear systems, and it looks at how signal-to-noise ratios can be improved by signal averaging and linear filtering. Features Analyzes the properties of photonic sensors and emitters and the circuits that power themDetails the design of instrumentation amplifiers and medical isolation amplifiersConsiders the modulation and demodulation of biomedical signalsExamines analog power amplifiers, including power op amps and class D (switched) PAsDescribes wireless patient monitoring, including Wi-Fi and Bluetooth communication protocolsExplores RFID, GPS, and ultrasonic tags and the design of fractal antennasAddresses special analog electronic circuits and systems such as phase-sensitive rectifiers, phase detectors, and IC thermometers By explaining the building blocks of biomedical systems, the author illustrates the importance of signal conditioning systems in the devices that gather and monitor patients critical medical information. Fully revised and updated, this second edition includes new chapters, a glossary, and end-of-chapter problems. What s New in This Edition Updated and revised material throughout the bookA chapter on the applications, circuits, and characteristics of power amplifiersA chapter on wireless patient monitoring using UHF telemetry A chapter on RFID tags,...



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