



Analysis and Application of Analog Electronic Circuits to Biomedical Instrumentation (Biomedical Engineering)

Robert B. Northrop

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This book introduces the basic mathematical tools used to describe noise and its propagation through linear systems and provides a basic description of the improvement of signal-to-noise ratio by signal averaging and linear filtering. The text also demonstrates how op amps are the keystone of modern analog signal conditioning systems design, and illustrates their use in isolation and instrumentation amplifiers, active filters, and numerous biomedical instrumentation systems and subsystems. It examines the properties of the ideal op amp and applies this model to the analysis of various circuits. It explores models and architectures of the ...building blocks... of the signal conditioning systems used to monitor and measure medical data.

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