



Analog Filter and Circuit Design Handbook

Arthur Williams

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Cutting-edge techniques for designing analog filters and circuits

With an emphasis on using operational amplifiers as key building blocks, *Analog Filter and Circuit Design Handbook* shows how to create working circuits that perform a variety of analog functions. Numerous circuit examples provide mathematical functions on analog signals in both a linear and nonlinear manner. The highly efficient elliptic-function filter response is featured throughout the book. Audio applications, such as audio power amplifiers and cross-over networks, are discussed, and both voltage and current feedback amplifiers are covered. This practical guide also analyzes the impact of nonideal amplifiers and addresses waveform shaping and generation.

ANALOG FILTER AND CIRCUIT DESIGN HANDBOOK COVERS:

- Introduction to modern network theory
- Selecting the response characteristic
- Low-pass filter design
- High-pass filter design
- Bandpass filters
- Band reject filters
- Networks for the time domain
- Refinements in LC filter design and the use of resistive networks
- Component selection for LC and active filters
- Normalized filter design tables
- Switched capacitor filters
- Adjustable, fixed delay, and amplitude equalizers
- Voltage feedback operational amplifiers
- Linear amplifier applications
- Nonlinear circuits
- Waveform shaping
- Waveform generation
- Current feedback amplifiers
- Large signal amplifiers

INCLUDES FREE DOWNLOADS:

- Filter Solutions from Nuhertz Technologies
- ELI 1.0 Elliptic function filter design program
- Fltrform--an Excel spreadsheet with essential formulas

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