



# 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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