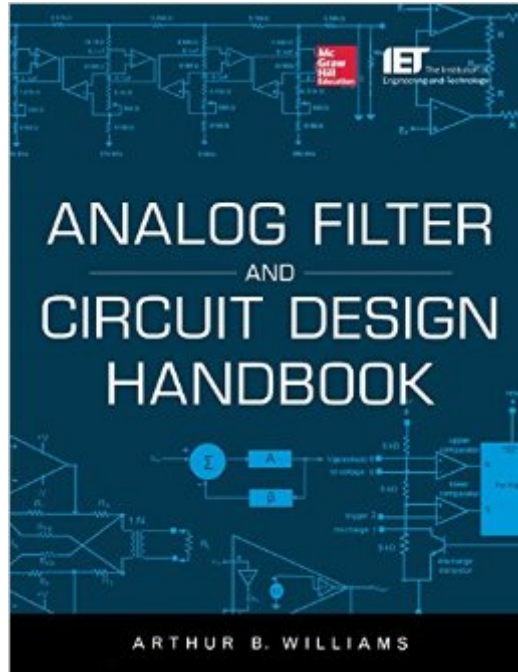


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# Analog Filter And Circuit Design Handbook



## Synopsis

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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## Customer Reviews

Wow, what a great book! Great coverage on modern network theory, filter designs, networks, LC and active filters, adjustable and amplitude equalizers, operational and linear amplifiers, nonlinear circuits, waveforms, large signal amplifiers, and much more. I'm impressed with the quality of writing and easy-to-understand illustrations and diagrams. The book covers both principles and practical design and is a superb book for anyone desiring to learn about analog filters and circuit design. As an author of 15 books myself, and university professor, I highly recommend this book. Nice work!

Dan Tomal, Ph.D. Wheaton, IL

This is a terrific book both for those new to filter design as well a great reference for experienced Engineers. I have never designed a real-world filter, but yet I feel I that I am able to after reading several chapters of this book. Mr. Williams' well written explanations of the theory and practical procedures take the black magic out of this field. On the other hand, the book spans classical RLC design through switch-capacitor and digital designs so that it is a great reference book for everyone

Mr. Williams has written another excellent book on the art of analog filter design. I would highly recommend this book to anyone who is interested in learning the basics and nuances of designing and analyzing analog filters.

Very good book. It's very well written and easy to understand.

The text is a good resource for filter design and supporting circuits, however some of the material is dated. There are a few small errors in formulas, so double check your work.

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