



Passive, Active, and Digital Filters, Second Edition (The Circuits and Filters Handbook, 3rd Edition)

By Wai-Kai Chen

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Upon its initial publication, *The Circuits and Filters Handbook* broke new ground. It quickly became the resource for comprehensive coverage of issues and practical information that can be put to immediate use. Not content to rest on his laurels, in addition to updating the second edition, editor Wai-Kai Chen divided it into tightly-focused texts that made the information easily accessible and digestible. These texts have been revised, updated, and expanded so that they continue to provide solid coverage of standard practices and enlightened perspectives on new and emerging techniques.

Passive, Active, and Digital Filters provides an introduction to the characteristics of analog filters and a review of the design process and the tasks that need to be undertaken to translate a set of filter specifications into a working prototype. Highlights include discussions of the passive cascade synthesis and the synthesis of LCM and RC one-port networks; a summary of two-port synthesis by ladder development; a comparison of the cascade approach, the multiple-loop feedback topology, and ladder simulations; an examination of four types of finite wordlength effects; and coverage of methods for designing two-dimensional finite-extent impulse response (FIR) discrete-time filters. The book includes coverage of the basic building blocks involved in low- and high-order filters, limitations and practical design considerations, and a brief discussion of low-voltage circuit design.

Revised Chapters:

- Sensitivity and Selectivity
- Switched-Capacitor Filters
- FIR Filters
- IIR Filters
- VLSI Implementation of Digital Filters
- Two-Dimensional FIR Filters

Additional Chapters:

- 1-D Multirate Filter Banks
- Directional Filter Banks
- Nonlinear Filtering Using Statistical Signal Models
- Nonlinear Filtering for Image Denoising
- Video Demosaicking Filters

This volume will undoubtedly take its place as the engineer's first choice in looking for solutions to problems encountered when designing filters.

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