



# Design of Analog Filters

*Rolf Schaumann, Mac E. Van Valkenburg*

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Written for advanced undergraduate and first-year graduate courses in analog filter design and signal processing, *Design of Analog Filters* integrates theory and practice to provide a modern and practical "how-to" approach to design. A complete revision of Mac Van Valkenburg's classic work, *Analog Filter Design* (1982), this text builds on the presentation and style of its predecessor, updating it to meet the needs of today's engineering students. Reflecting recent developments in the field and emphasizing intuitive understanding, it provides readers with an up-to-date introduction and design guidelines and also helps them to develop a "feel" for analog circuit behavior.

*Design of Analog Filters* moves beyond the simple treatment of active filters built with opamps to discuss the more recent design of filters based on transconductors. Topics covered include fundamental concepts; opamps; first- and second-order filters; second-order filters with arbitrary transmission zeros; filters with maximally flat magnitude, with equal ripple (Chebyshev) magnitude, and with inverse Chebyshev and Cauer response functions; frequency transformation; cascade designs; delay filters and delay equalization; sensitivity; LC ladder filters; ladder simulations by element replacement and by operational simulation; transconductance-C filters; and switched-capacitor filters.

### Features

- \* Includes a wealth of examples, all of which have been tested on simulators or in actual industrial use
- \* Employs MATLAB to minimize algebraic and other computational needs
- \* Uses Electronics Workbench to help students simulate actual experimental behavior
- \* Provides sample design tables and design and performance curves
- \* Avoids sophisticated mathematics wherever possible in favor of algebraic or intuitive derivations

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