



Design of Analog Filters 2nd Edition (The Oxford Series in Electrical and Computer Engineering)

Rolf Schaumann, Haiqiao Xiao, Mac Van Valkenburg

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Ideal for advanced undergraduate and first-year graduate courses in analog filter design and signal processing, *Design of Analog Filters* integrates theory and practice in order to provide a modern and practical "how-to" approach to design. A complete revision of Mac E. 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 and practicing engineers. Reflecting recent developments in the field and emphasizing intuitive understanding, it provides students 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, Second Edition, moves beyond the elementary treatment of active filters built with opamps. The book discusses 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; in addition, high-frequency filters based on transconductance-*C* concepts and on designs using spiral inductors are covered; as are switched-capacitor filters, and noise issues.

Features

- * Includes a wealth of examples, all of which have been tested on simulators or in actual industrial use
- * Uses the very easy-to-use and learn program 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
- * Addresses practical and realistic design

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