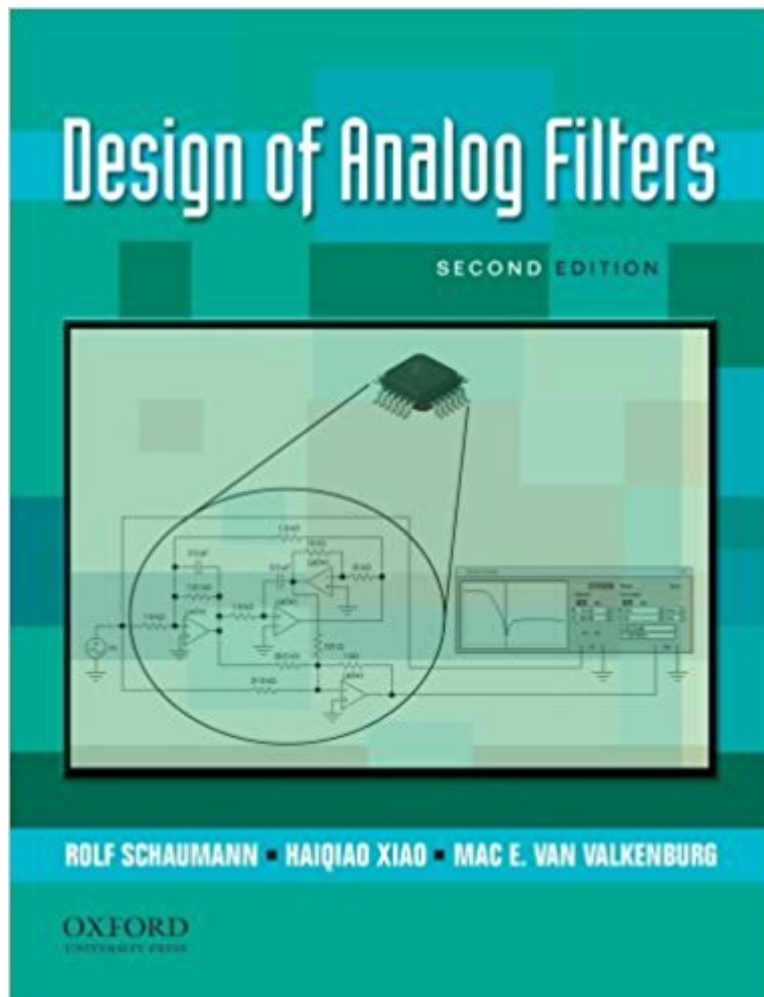# The book was found

Design Of Analog Filters 2nd Edition (The Oxford Series In Electrical And Computer Engineering)

Synopsis

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

Book Information

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Customer Reviews

You will be an analog filter master if you can learn all the information in this book. It's a solid expansion of the classic Van Valkenburg text.Pros:-Extends the original text with topics more useful for integrated circuit design, like transconductance-capacitor filters. It doesn't go into transistor level design though, you'll need to find another text for that.-Detailed, mathematical treatment of filter design. This is a different approach than say, Don Lancaster's Active Filter Cookbook. It's not a text you should use if you need to bang out a design quickly; rather, you should study this text if you want a deep understanding of how filters work.Cons:-It's really obvious where the new authors have added or modified material from the original 1984 text. You can do a side-by-side comparison of the two editions and for the most part, the core material is the same. However, at the parts that have been modified, the writing style differs greatly. Van Valkenburg's writing is very succinct, but not in a way that leaves you feeling like you've missed something. The new authors are more wordy, which some people may like. Personally I find it distracting.-The publisher didn't seem to pay much attention to typesetting. I think this is one of the ugliest typeset textbooks I own. The fonts, the layout, the figures, and even where the figures are laid out in relation to the content is very haphazard. The original '84 text was more elegantly laid out, and was thus much easier on the eyes.-No solutions manual is available. A couple chapters are available on the newest author's website.Overall, a solid textbook if you're interested in the math and theory behind filter design. I believe that you should use this in conjunction with a more practical filter book (like one of the cookbooks) so you get both sides of the story.

The color was a little off and I don't quite understand why to this very day, but it was in perfect condition and I don't regret the purchase because I could read everything easy and there wasn't a single scratch on this book and it was cheaper than my over priced bookstore :D

good book expect more about non ideal op amp in GIC and FDNR.need more about mixer (its non ideality and non linearity)

Great product shipment from , timely shipping, no damage.Active filter technology is widely is almost all electonics nowadays, undertanding basic concepts is crucial for any designer. This book is a

good book to have in your collection to practicin depth hand calculation. Don't expect this to be your sole source, shortcuts are not outlined, and some derivations are either too vague or skip over critical potions. Sample problems could be enhanced by using a step-by-step approach.Content of the book is severly lacking. Concepts are loosely covered, end of chapter problems are very difficult. Supplemental material is a must if you wish to conquer the concepts.

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