



# A Baker's Dozen: Real Analog Solutions for Digital Designers

*By Bonnie Baker*

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**A Baker's Dozen: Real Analog Solutions for Digital Designers** By Bonnie Baker

This book has been written to help digital engineers who need a few basic analog tools in their toolbox. For practicing digital engineers, students, educators and hands-on managers who are looking for the analog foundation they need to handle their daily engineering problems, this will serve as a valuable reference to the nuts-and-bolts of system analog design in a digital world.

This book is a hands-on designer's guide to the most important topics in analog electronics - such as Analog-to-Digital and Digital-to-Analog conversion, operational amplifiers, filters, and integrating analog and digital systems. The presentation is tailored for engineers who are primarily experienced and/or educated in digital circuit design. This book will teach such readers how to "think analog" when it is the best solution to their problem. Special attention is also given to fundamental topics, such as noise and how to use analog test and measurement equipment, that are often ignored in other analog titles aimed at professional engineers.

- Extensive use of case-histories and real design examples
- Offers digital designers the right analog "tool" for the job at hand
- Conversational, anecdotal "tone" is very easily accessible by students and practitioners alike

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## A Baker's Dozen: Real Analog Solutions for Digital Designers By Bonnie Baker Bibliography

- Sales Rank: #2625661 in Books
- Brand: Brand: Newnes
- Published on: 2005-05-30
- Released on: 2005-05-16
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .83" w x 7.50" l, 1.90 pounds
- Binding: Paperback
- 368 pages



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### Editorial Review

#### Review

"This self-teaching primer will enhance your design, decision, and debugging skills so that you can face the reality of mixed-signal systems or digital designs with their inevitable analog-world aspects." --**Bill Schweber, EDN Magazine** "If digital engineers buy this excellent book it will reduce the number of e-mails that I and many application engineers get on an almost daily basis looking for assistance, particularly in op amp scaling and layout issues." --**Paul McGoldrick Editor-in-Chief of analogZONE**

"Unlike a 'theoretical' book that covers circuit design in a detached 'perfect' world, this book provides information gathered during many years of bench-level engineering. It's the practical and current nature of the information in this book that will set it apart from other books about circuit design." --**John Titus, Former Chief Editor of EDN and Test and Measurement World magazines**

#### About the Author

Bonnie Baker has been involved with analog design and analog systems for nearly 20 years, having started as a manufacturing product engineer supporting analog products at Burr-Brown. From there, Bonnie moved up to IC design, analog division strategic marketer, and then corporate applications engineering manager. In 1998, she joined Microchip Technology's Microperipherals Division as the analog/mixed signal applications engineering manager. This has expanded her background to not only include analog applications, but to the microcontroller.

Bonnie holds a Masters of Science in Electrical Engineering from the University of Arizona (Tucson, AZ) and a bachelor's degree in music education from Northern Arizona University (Flagstaff, AZ). In addition to her fascination with analog design, Bonnie has a drive to share her knowledge and experience and has written more than 200 articles, design notes, and application notes and she is a frequent presenter at technical conferences and shows.

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