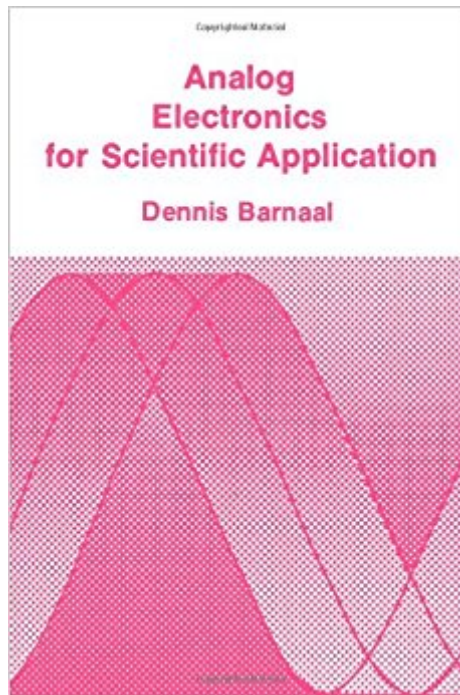




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# Analog Electronics For Scientific Application



## Synopsis

Nicely balanced and workable, this introductory book emphasizes practical application of instrumentation, offers clear explanations with a minimum of mathematical analysis, includes a large number of review exercises and real-world problems in every chapter, and shows many examples that are worked out, clearly marked, and set off from the text. Topics are covered in an easy-to-read format and explanations are lucid.

## Book Information

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## Customer Reviews

I do not believe one can find a better introductory book to analog electronics than this one. Save for some of the antiquated tools - vacuum tubes and mercury batteries - you can learn quite a bit from this book. This book is good for those who have little experience in physics and electronics as well as those in the undergraduate level. There is not much for higher level courses though.

Very straightforward intro text  
Check out the op amp sections!

Thank you

Focused more toward medical applications the text may be a bit dated, but the concepts are still solid and explanations usually pretty clear

You want to know about Op Amps? BAM - Here's some Op Amps. How about some Full Wave Rectifiers? POW - There you are, sir. This book is direct, to the point and expediently modular - great for those little "Screw MicroCircuits(R), I'm going to make it myself for 1/1,000,000th the price" moments.

Don't let the previous review dissuade from this book. This is a fine, albeit simple, approach to electronics. The author has a good writing style giving lots of qualitative descriptions of the basics. Having said that, it is lacking a bit in the comprehensiveness department. The chapter on Transducers is solid and the op-amp chapter is very good, too. Best thing about the book are the end of chapter review exercises and problems. New material is often introduced here and you have to have a good understanding of the chapter material to answer them. It's not just plug-n-chug from given equations to get an answer. The author is also to be commended for showing how the material relates to actual circuits that scientists could use. Most electronics books seem to leave out this critical motivational material. Contents: 1. Passive Components and Networks 2. Important Electronic Instruments 3. Transducers 4. Diodes and Power Supplies 5. Amplifier Behavior 6. Operational Amplifier and Electronic Function Blocks 7. Waveform-Shaping Circuits 8. Discrete Electronic Devices

This was the book that my instructor selected for our electronics class. "Your book is going to only cost \$20 for this course, and it's really good" he told us. Well, he didn't lie about the price, but I found this book to be terrible for entry level students. As a physicist who is really strong in math and electronics, I found this book incredibly confusing. I struggled with the homework questions and had to go look up other references because the book would ask a legitimate electronics question, yet so poorly cover the material that seemed like the question came out of left field. Let me give you a perfect example. The book tells you how resistors are color coded, but then doesn't specifically tell you how to read a resistance with color coding. To a person already familiar with the topic, it wouldn't matter if you didn't know how to read resistance via color coding, the book's vague description should remind you how it's done, but if you weren't already familiar with how resistor color coding works, you would have a very difficult time understanding what the book said. By the end of the class, I was so frustrated with the book that when I happened to finally find a straightforward explanation to an electronic device, I tore the pages out, and threw the rest of the worthless book away. A friend introduced me to his 200 level circuits book which was \$100, and I ordered a copy on the spot. It was so much more clear than this book. You get what you pay for with

this book. Buyer beware.

I got this book for a course ages ago, and have used it as a reference several times since. I found it clear and concise and it has most of the basic information you need to know about simple circuits.

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