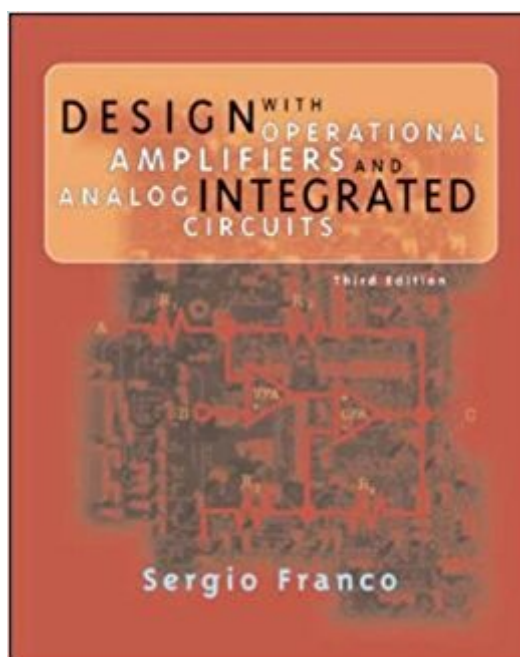


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# Design With Operational Amplifiers And Analog Integrated Circuits



## Synopsis

Franco's "Design with Operational Amplifiers and Analog Integrated Circuits, 3e" is intended for a design-oriented course in applications with operational amplifiers and analog ICs. It also serves as a comprehensive reference for practicing engineers. This new edition includes enhanced pedagogy (additional problems, more in-depth coverage of negative feedback, more effective layout), updated technology (current-feedback and folded-cascode amplifiers, and low-voltage amplifiers), and increased topical coverage (current-feedback amplifiers, switching regulators and phase-locked loops).

## Book Information

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## Customer Reviews

SERGIO FRANCO is a professor of Electrical Engineering at San Francisco State University. He was born in Friuli, Italy, and earned his Ph.D from the university of Illinois at Urbana-champaign. Prior to becoming professor, Dr. Franco had extensive industrial experience and has worked and published in such diverse areas as solid state physics, pattern recognition, electronic music, IC design, and medical, consumer and automotive electronics. Dr. Franco is also the author of the textbook *Electric Circuit Fundamentals*, Oxford University Press, 1995. In addition to teaching, Dr. Franco consults for industry.

This is a great book, it contains most of what you need to know about operational amplifiers, starting

from the basics to the inner workings of the device. May I say that probably what I find most appealing about this book are the "end of chapter" problems?, perhaps the best approach to end of chapter problems I've ever encountered in an electronics textbook, let me elaborate on that: Instead of just being mere academic circuits with no use, starting from chapter 1 you will find a great deal of useful real-life circuits, the author may ask you to derive the gain equation of the circuit or to prove circuit operation, or any other parameter, which in turn, help you understand how real life circuits work, or maybe even use the circuit you just solved in a real application. I guess that what im trying to say is that even if you will find basic drill excercises, you will also find problems which wont stay only on paper. The book is somewhat pricey and the reason I gave it 4 stars rather than 5 is that on several occasions the author will just flash formulae at you with the tinniest ammount of information about where did all come from, I understand that the book would have been much thicker if every little nuance had to be written, but this forces you to constantly prove every equation, which is a good thing, however simple things that could be easily understood with a little more information become complicated and force you to spend several minutes trying to figure out how the author got to the formula. I make several notes at the bottom of the pages to save myself a lot of time if I ever have to go back and re-read a particular section. That being said, the material is very well presented, and overall this is a must-have book for every EE interested on analog design.

This book is great for the upper division undergraduate and the graduate student alike. The author writes clearly and prioritizes getting his point across above elegant writing which I appreciate in an engineering text. Too often in engineering textbooks authors prefer elegance over simplicity, which is fine, but not if it gets in the way of getting the point across. The example problems are phenomenal. The author uses just enough examples, placed at exactly the right points in the text, that drive home the important concepts from each section. If you read through this book and work the example problems as you go along, you'll have no problem understanding the material. This book makes electronics simple.

I found Franco's work to be as enthralling to read as it was complete and deep in coverage. Not since the immortal Huelsman and Allen (a work long ago "overcome by events") has such a titanic writing job been undertaken in the field of linear circuit and analog filter design. I would stop short of saying--as one reviewer did--that the book says "everything you could possibly want to know about analog design." (I certainly don't recall having seen Miller's theorem or the hybrid-pi model--nor did I expect to!). Unfortunately, the book still leaves one puzzle unanswered: does it really matter which

input carries the "+" sign and which carries the "-" sign? (The answer is no: it's merely convention that an inverting/noninverting network attaches the source to the "-" / "+" terminal.) Bravo, Dr. Franco. This is a treasured addition to my library, even at \$110.

Simply amazing. I am interested in bioinstrumentation and sensing in general and have an EE background. Bought this book to review my analog theory. At first I found it a little difficult, but the more I persisted the more I came to realize the clarity of the explanation, the consistency and care with which the book has been written. To reap the full benefits one must do the problems and relate the observation made, to the theory in the book. I think this is the absolute stepping stone to jump in depth into the field of real analog design. I am thoroughly enjoying it.

This is a great book on opamps and analog circuits. It isn't quite as good as the hardcover version, but it has most of the same information in it.

This is a very good intermediate text for op amp design. Some acquaintance with op amps will be needed before reading this book because the learning curve is steep in the first chapter. However, the approach is thorough and professionally presented. The book is more than a cookbook. Furthermore, the book does not stop with the single op amp, but discusses the use of op amp(s) in circuits. The book is perfectly suited for prototyping the many circuits contained between its two covers. Since my interest was in instrumentation amplifiers, I decided to reduce the circuits of chapter 2 to practice. It was a real learning experience. I think chapter titles will further indicate the comprehensive nature of the book: (1) OA Fundamentals, (2) Circuits w/ Resistive Feedback, (3,4) Active Filter, (5) Static OA Limitations, (6) Dynamic OA Limitations, (7) Noise, (8) Stability, (9) Nonlinear Circuits, (10) Signal Generators, (11) Voltage References and Regulators, (12) D-A & A-D Converters, (13) Nonlinear Amplifiers & Phase-Locked Loops.

Excellent author. Excellent book.

although electronics is not my forte, this was a decent reference, simple enough for me to understand at the very least.

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