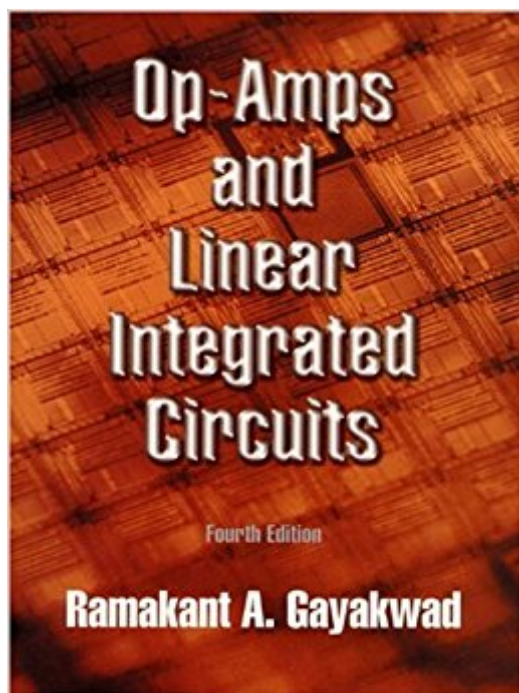


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# Op-Amps And Linear Integrated Circuits (4th Edition)



## Synopsis

This accurate and easy-to-understand book presents readers with the basic principles of operational amplifiers and integrated circuits with a very practical approach. A large number of examples, questions, problems, and practical circuit applications make it a valuable reference guide. Chapter topics include an introduction to, frequency response and negative feedback of op-amps along with interpretation of data sheets and characteristics. Also covered are active filters and oscillators, comparators and converters, specialized IC applications and system projects. For professional design engineers, technologists, and technicians, with self-study interests, who need the ability to adapt to changing technology as new devices appear on the market.

## Book Information

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## Customer Reviews

As in previous editions, this successful text presents the basic principles of op-amps and integrated circuits--with a very practical approach. It has been checked for accuracy, and retains its unique blend of theory and practice within a straight-forward presentation. --This text refers to an out of print or unavailable edition of this title.

This accurate and easy-to-understand book presents readers with the basic principles of operational amplifiers and integrated circuits with a very practical approach. A large number of examples, questions, problems, and practical circuit applications make it a valuable reference guide. Chapter topics include an introduction to, frequency response and negative feedback of

op-amps along with interpretation of data sheets and characteristics. Also covered are active filters and oscillators, comparators and converters, specialized IC applications and system projects. For professional design engineers, technologists, and technicians, with self-study interests, who need the ability to adapt to changing technology as new devices appear on the market.

I love this book, before jumping into op amps chapter 1 uses amplifier configurations comprised of discrete components to form building blocks, which once put together form an op amp. This approach allows for an understanding of the signals from input to output. Op amps start on chapter 2 analyzing characteristics and then configurations, which are described clearly with all the necessary equations to allow you to customize each configuration to your particular need. The author uses inexpensive op amps, which allows the reader to build circuits and experiment without fear of damaging an expensive piece of silicon. Go ahead order a hand full of inexpensive op amps and enjoy this book. Once you feel comfortable with the circuits in this book, you can move to higher performance more expensive op amps. Have fun experimenting and designing your own circuits! On the side note you will need some basic electricity background to appreciate this book. At least you should feel comfortable with ohm's law, kvl, kcl, voltage divider rule and how passive components behave under AC and DC. Some basic circuit analysis also will help, but you might get away without it to get started, for more advanced circuits it will be necessary.

Very complete, a great reference source.

Excellent

Hello I am actually the author of the books daughter ! I just wanted to say thanks to you all . My father put his heart and soul in his books and he really was passionate about spreading the knowledge he had to people ever where Thanks again Xoxooxox N. Gayakwad

The prose explanations are short and stilted, offering a minimum of circuit operational explanation. When the author reaches what I interpret as writer's block, he refers the reader to an equation which is lengthy and difficult to understand. The equations often lack explanations as to how they are derived. They also lack explanations of what the new symbols in them represent. They would be much easier to understand if there was more prose explanation of how the equations were created and then how the equations were changed into simpler equations for solving. This appears to be a

good reference for experienced engineers. It is not a good study text for newly learning students.

This is a rebuttal to Mr. Sanders review, which I found to be unfair and untrue. I have the second edition of this book which was used as the text for an undergrad course taken in 1988. I have found this text an invaluable resource. The equations are well derived and the examples provide a good foundation to op-amp circuit design. This text is a good reference for beginner and experienced engineers alike. I find it highly unlikely that the fourth edition would be a step backward from the second edition.

This book is well written even for a 12 year old. The math isn't too complex. I don't know if the previous reviewer has any formal electrical/electronics education; maybe that should be the place to start. I think this book does a better job than "The Art Of Electronics", in explaining how Op-Amps really work. But don't let this book be the end all to be all. Until an author writes a book that combines everything about Electronics, use as many books as possible. I have not found one book that can compare to 10 books on the same subject. Maybe the "Grey" book.

I'm a mechanical engineer that specializes in robotics and found this book very approachable. If you're looking for a solid "real world" book on op-amps and their applications, this is a great reference book. It contains useful examples that teach the underlying theory without being overly burdened with graduate level mathematics.

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