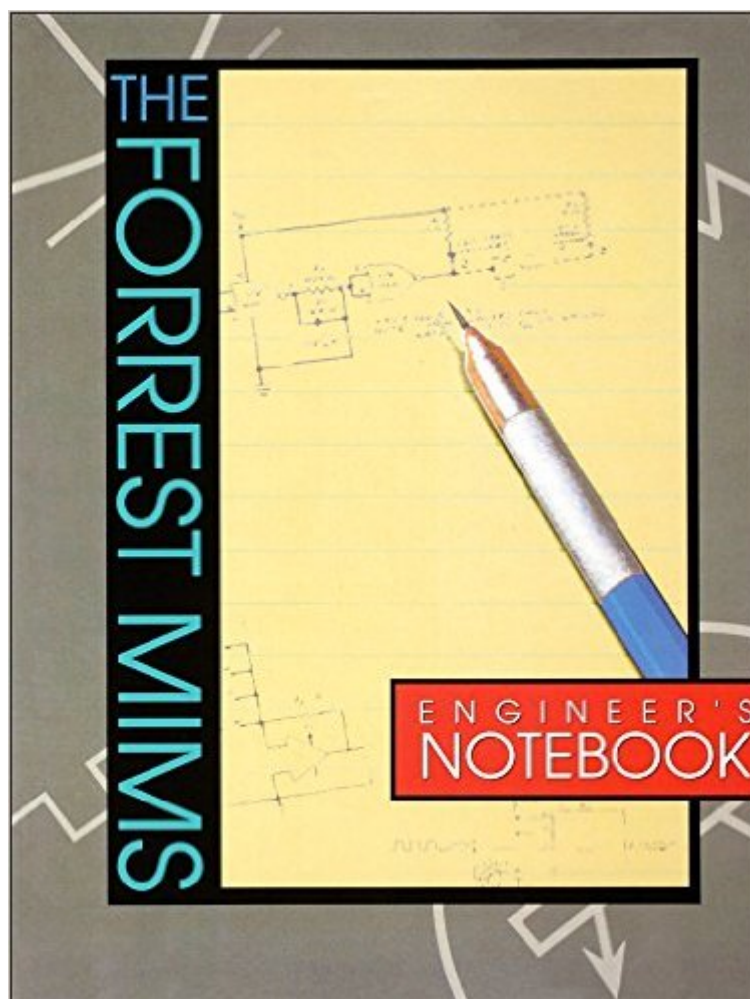


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# Forrest Mims Engineer's Notebook



## Synopsis

The book features: carefully hand-drawn circuit illustrations hundreds of fully tested circuits tutorial on electronics basics tips on part substitutions, design modifications, and circuit operation All covering the following areas: Review of the Basics Digital Integrated Circuits MOS/CMOS Integrated Circuits TTL/LS Integrated Circuits Linear Integrated Circuits Index of Integrated Circuits Index of Circuit Applications

## Book Information

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## Customer Reviews

This book starts where Mims previous "Getting started in electronics" leaves off. this book is not a rehashing of his mini notebooks but is a serious effort to present the reader with many options and alternatives to his previous work. Mims gives great detail to areas that he just touched on before. My best advice is get and study "Getting started..." and then move into this book.

This book will help both electrical and computer engineers generate ideas to build circuits. There are more digital logic circuits than purely analog circuits described in the book, with roughly 4 schematics per page (~149 pages total). The analog circuits are mainly built around op-amps. The book has a few equations to describe the analog circuits (filters, oscillators, etc.), but lacks many that would help the reader can make the circuits meet certain specifications (i.e. equations that describes the frequency of oscillation or cutoff frequency on a filter, etc.) Therefore, it will help give you ideas to accomplish a task, but not be useful as a purely analog reference guide. Because

digital circuits do not require equations, and the book is mostly digital, it makes for a good digital reference.

This book answers both the "How does it work?" and "How can I build a circuit that will...?" questions for anyone involved in electronics, from the beginner electronics hobbyist to the seasoned engineer needing a quick circuit to solve a measurement problem. It includes and expands upon Forrest Mims' popular Engineer's Mini-Notebook Series that have been the mainstay of my reference collection for years. I liked my copy of the Engineer's Notebook so much that I ordered eight additional copies for other engineers and scientists I work with.

I purchased this book based on others previously written by Mr. Mims. My old collection consisted of his 1980 edition of the Engineer's Notebook series and the Integrated Circuit Projects mini books previously available from Radio Shack. There always seems to be some overlap with his books. I was attempting to update my library since I had not been involved in circuit building for a while. There are some additional circuits/chips since the 1980 version. Be advised there is even a "Notice To Readers" insert advising that some of the circuits may use older parts that may not be easy to find..."I believe the description of this book should be more upfront in advising people of the older circuits presented and possible difficulty in finding parts to build them. This backs up my comment on the overlap with my old 1980 edition. The information in his 'Timer, Op Amp & Optoelectronic Circuits & Projects' should have been included in this book. This new edition has fresh white pages, my 1980 edition pages have yellowed.

I found this book incredibly disappointing. I had seen the little radio shack books and figured this contained all those rolled into a big book. Well it doesn't. It's a greatest hits and I didn't think they were all that great. More digital than analog and most of the analog circuits are based on chips that aren't around anymore. Maybe it's not a problem for someone who knows their IC's but I found it incredibly frustrating. Several times I tried to build circuits but couldn't find the chips. And when he doesn't go into detail about what each component is doing, it's tough to find a substitute.

I usually dislike textbooks but Forrest Mims deserves a spot on my book shelf. I think of him as the Bob Ross of electronics. His series of books are incredibly detailed but simple enough that you don't need a math degree to understand. He gives you enough information to get you going in a well compiled, easy to follow way. Combine Forrest Mims with The Art of Electronics and you can teach

yourself a great deal about circuitry. I really wish I had access to this book as a teen. I especially recommend this for teenagers or even kids interested in Electronics.

This is the Best Quick Reference that all Eng's and Hobbists must have on hand, it is the best friend of Electronic Students. It is part of my favorite collection.

I learned more from practical knowledge from this book than all my EE courses. And now, thanks to it still being in print, I've been able to pass on the joy of learning electronics to another generation.

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