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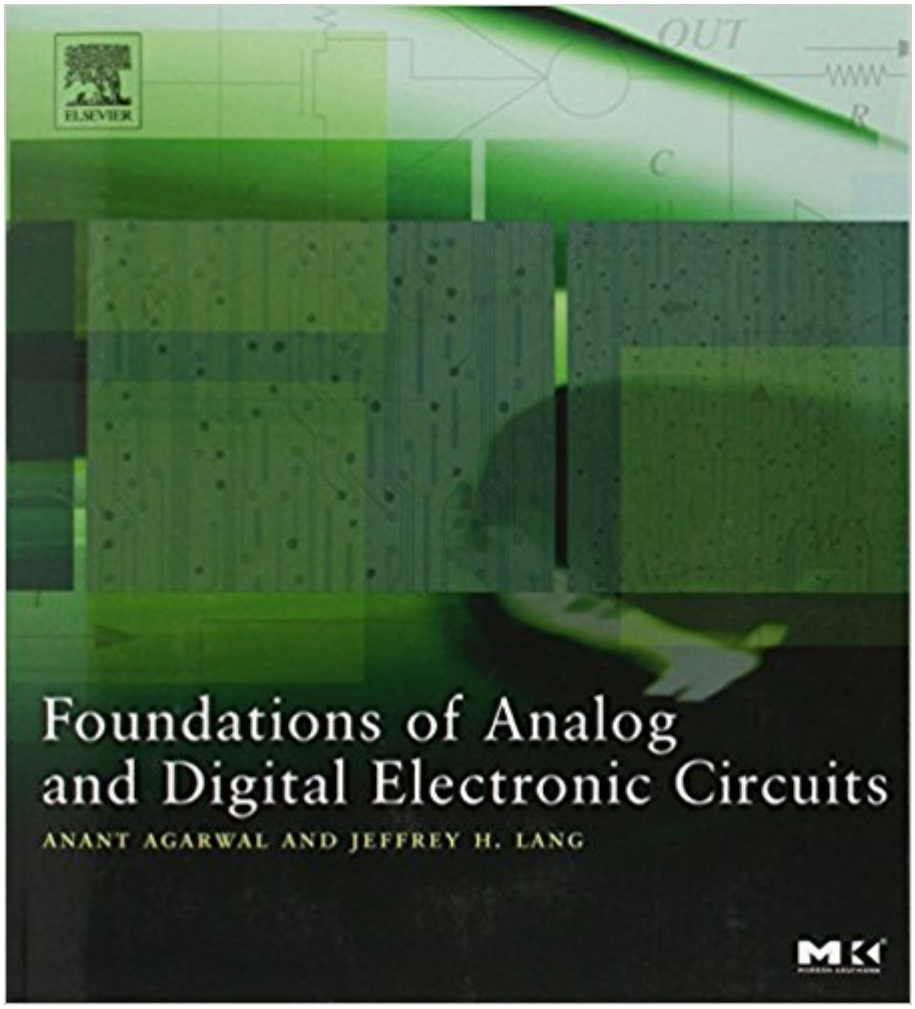
Foundations Of Analog And Digital Electronic Circuits (The Morgan Kaufmann Series In Computer Architecture And Design)



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Synopsis

Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of ''abstraction,'' the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications.+Illustrates concepts with real devices.+Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach.+Written by two educators well known for their innovative teaching and research and their collaboration with industry.+Focuses on contemporary MOS technology.

Book Information

Series: The Morgan Kaufmann Series in Computer Architecture and Design
Paperback: 1008 pages
Publisher: Morgan Kaufmann; 1 edition (August 1, 2005)
Language: English
ISBN-10: 1558607358
ISBN-13: 978-1558607354
Product Dimensions: 9 x 8 x 1.7 inches
Shipping Weight: 5 pounds (View shipping rates and policies)
Average Customer Review: 4.5 out of 5 stars 44 customer reviews
Best Sellers Rank: #201,713 in Books (See Top 100 in Books) #27 inÃ Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Integrated #40 inÃ Â Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Design > Products #55 inÃ Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Design

Customer Reviews

"The book issued by two professors at MIT is intended to initiate a new approach in presenting and developing analog and digital electronics. Traditionally, analog and digital elements and circuits are

given in separate courses. Here, the authors want to show that in presenting both topics (analog and digital), a deeper insight of the real problems of the actual electronics is obtained."--Dumitru Stanomir (Bucuresti)"Elsevier, the academic publishing giant, announced [1] on Tuesday that it will offer a free version of one of its textbooks this fall to students who register for Circuits & Electronics, a massive open online course (MOOC) being offered by edXÃ¢â ¬Â¦The MIT Press text that benefited from a Coursera plug was co-written by Daphne Koller, the co-founder of Coursera. Similarly, the Elsevier textbook that will be featured this fall in Circuits & Electronics was co-written by Anant Agarwal, the president of edX."--Inside HigherEd"Elsevier announced its plan to provide free content through edX, the online learning initiative founded by Harvard University and the Massachusetts Institute of Technology (MIT) launched in May. Students who enroll in edXÃ¢â ¬â„¢s course 6.002X: Circuits and Electronics will have free access to an online version of the course textbook, Foundations of Analog and Digital Electronic Circuits, written by Anant Agarwal and Jeffrey Lang and published under ElsevierÃ¢â ¬â„¢s Morgan Kaufmann imprint."--Information Today, Inc."STM publisher Elsevier, Netherlands, has announced plans to provide free content through edX, the online learning initiative founded by Harvard University and the Massachusetts Institute of Technology (MIT). Students who enroll in edX's course 6.002X: Circuits and Electronics will have free access to an online version of the course textbook, Foundations of Analog and Digital Electronic Circuits, written by Anant Agarwal and Jeffrey Lang and published under Elsevier's Morgan Kaufmann imprint."--KnowledgeSpeak"Elsevier, a world-leading provider of scientific, technical and medical information products and services, today announced its plan to provide free content through edX, the online learning initiative founded by Harvard University and the Massachusetts Institute of Technology (MIT) launched in MayÃ¢â ¬Â¦ Students who enroll in edXÃ¢â ¬â„¢s course 6.002X: Circuits and Electronics will have free access to an online version of the course textbook, Foundations of Analog and Digital Electronic Circuits, written by Anant Agarwal and Jeffrey Lang and published under ElsevierÃ¢â ¬â„¢s Morgan Kaufmann imprint."--edX

The only text to unify circuits and electronics.

This review applies to the Kindle edition. For content I'd give the book 5 stars; for device compatibility 2 stars; and for reading experience on Kindle devices and apps 1 star.The book is well written and provides thorough and understandable explanations of the concepts presented. To completely follow some of the explanations and work some of the problems the reader should have college level calculus and linear equations. lists a number of Kindle devices that will work with this

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Many have aspired, but few have succeeded providing a truly top-notch introduction to circuits. Agarwal and Lang, of MIT, hit a home run with this comprehensive introduction, tailor-made for students. The text links theory to everyday applications. So often in college level texts, authors dwell on theory but leave the reader starved for applications. How can I apply this stuff? Why do I need it? These questions are answered in "Foundations of Analog and Digital Electronic Circuits."The book clearly and concisely educates the reader not only in circuits, but in application of circuit theory to electronics, both analog and digital. The book is complete with solved exercises and answers to select chapter problems. I just can't praise this book enough.One word of caution. There are substandard prints of this book available from sellers outside . I bought a second copy for a friend thinking it was an original run from the publisher. It wasn't in color, had publisher's pages missing from the front, had a couple pages stuck together, and didn't meet the high standards of binding from the publisher. I suggest you ask before you buy used copies from sellers other than .Please hit the "I'd like to read this book on Kindle" button, if appropriate. There is a PDF version available from a competitor, but their e-reader required for download has received terrible reviews (crashes, poor performance, no book mark, etc.). It's the same price as the hard copy from .

I took an online course through MIT on circuit analysis because it is a hobby of mine (I'm an engineer/full time nerd). The professor who taught the class wrote this book. The guy was very knowledgeable and funny. I had the eBook version of this but I can't stand reading eBook's for Textbooks. I bought this and have really enjoyed the knowledge gained from it. It teaches you about how circuits really work in the real world and what happens at failure etc. When I took physics in college it was all theoretical which is necessary but isn't as useful when building your own circuits.

This touches on the theoretical backgrounds of the theories and then gets into what it actually means and does. It teaches you about the differences in analog and digital (I really enjoyed the section about digital signals). I recommend this book to hobbyists and academics alike. I initially bought a physics textbook to help me with my circuit design but it lacked in material. This was perfect and I still use it.

I agree with most of the positive reviews about this book. It is well written, comprehensive and understandable.I especially want to add that this book works great on a Kindle Fire HD, or using a Kindle PC app. This is one of the few technical books I have purchased that looks as good on a Kindle as in print. Usually, Kindle tech books have tiny, unreadable equations and other poor quality graphics. This one is an exception: the equations read just fine, and the graphics are great.Other Kindle authors should take note that it is possible to make good quality technical Kindle books. The formatting is mostly up to the author, not to .

I would like to praise the shippment and handling system have because I receive in a short time my book, I am from Zacatecas, MÃƒÂ©xico.According to the book, it is priceless to have a hardcopy on hands, instead of the online copy free availabe at the online course. This is an excellent book, but you have to pass through all the assignments and online explanations in order to fall in love with this book, because it is so deep in knowledge, but is one of the best book in the matter of analog elctronics I have read.

This book is so informative. I am a home schooled high school student in my senior year. I desire to pursue a degree in electronics and am able to understand this book. I have had a good background in Calculus which has been a big help. No doubt, Agarwal has a gift with teaching in a way that even a high school student can understand. It has helped to watch his videos that go along with this book.

The book is an amazing approach to physics and elecronics with the engineer’eyes.Nice procedure is simplifiying theory in order to get instruments that allows to build real "hardware".A good engineer’s approach to complex math and physics world.Not sure all students will appreciate the teaching style.

I’ve bought this book because enrolled to 6.002x online MIT course ([...]). Book is really good fot

those who want to start exploring the world of Electronics. New information, electronics abstraction (like diode, MOSFET) is explained in detail. Though, for advanced engineers it can seem too many circumlocution.

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