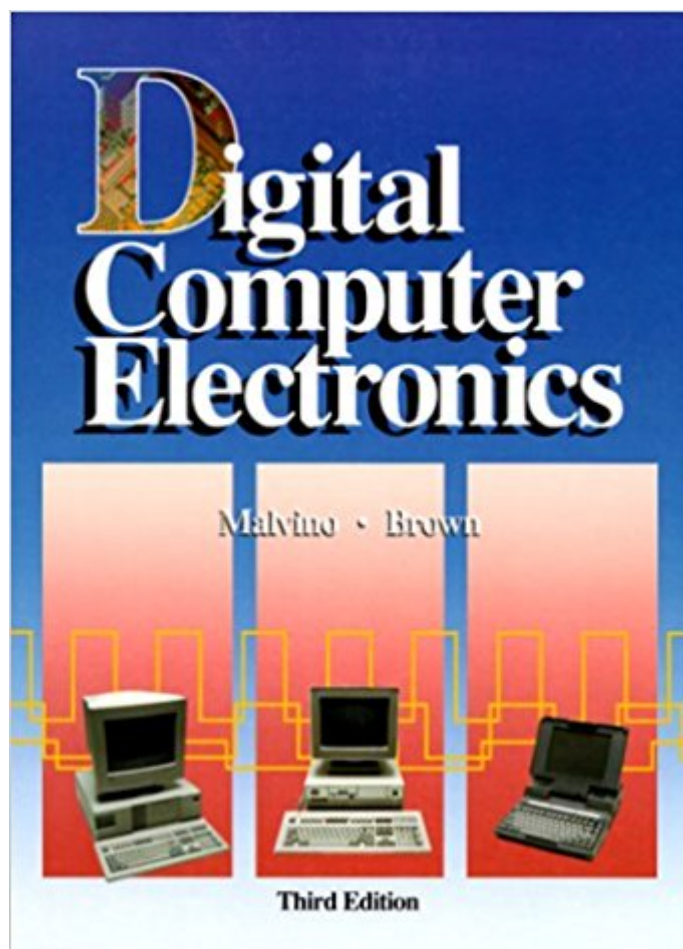The book was found

Digital Computer Electronics

Synopsis

Striking an ideally balanced approach, this text introduces students to microprocessor fundamentals by using a pedagogical SAP (Simple-As-Possible) model computer. The text then relates these fundamentals to three real-world examples: Intelâ ™s 8085, Motorolaâ ™s 6800, and the 6502 chip used by Apple Computers. Instructors can focus on just one of these popular microprocessors, or include the features of others. This edition correlates closely with popular chip trainers and includes added coverage of the Intel 8088 16-bit microprocessors. It also includes a student version of the TASM cross-assembler software program. Experiments for Digital Computer Electronics, prepared expressly for this Third Edition, contains hardware and software experiments that allow students to expand upon the topics covered in the text through hands-on exercises. An Instructorâ ™s Guide containing answers to chapter questions and experiment results is also offered.

Book Information

Hardcover: 544 pages

Publisher: Career Education; 3 edition (July 1, 1992)

Language: English

ISBN-10: 0028005945

ISBN-13: 978-0028005942

Product Dimensions: 9.8 x 1.3 x 11.3 inches

Shipping Weight: 3 pounds

Average Customer Review: 4.9 out of 5 stars   29 customer reviews

Best Sellers Rank: #483,598 in Books (See Top 100 in Books)   #106 inÂ Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Logic   #185 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Digital Design   #235 inÂ Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design

Customer Reviews

Malvino has a way with words and manages to simplify many aspects of low level digital electronics. I'm about half-way through the book and already cherish it for its very thorough explanations, starting from the simplest aspects (bits) and working towards more sophisticated elements of circuit design (truth tables with Karnaugh Maps). Along the way you'll take in many lessons on Boolean algebra and simplification techniques (don't let this scare you away - it's really not bad at all).While the book is definitely old, it's still very relevant, even with all of the improvements to computers over the last few decades. About the only possible complaint I could have at this point in the book is that

some of the chapter review questions seem a bit tedious, particularly since we only have half the answers in the back so it's questionable whether those problems are worth doing since you can't confirm whether you correctly understand the material. That aside, there's lots of questions (with answers) along the way within the actual chapter content, so you still have lots of chances to confirm your understanding.Bottom line, the book is a classic, the writing style is very easy to read, the quality of what it conveys is all-encompassing, and you'd be hard-pressed to find anything better on the subject. A must have for your electronics library.

Originally used this textbook as part of undergraduate work in electronics engineering. I used the 1977 edition of this book. This book is still one of the best in it's field. Highly recommended for the electronic engineering or engineering technology major.

The book I ordered is a little tough to find. But I got just what I was hoping for.

And almost 40 years later.... still got it.Malvino's clear writing makes his guiding of the reader through increasingly complex circuits easy to understand. No words are gratuitous even though many were repeated! His repetition to reinforce concepts throughout the book is well timed and appreciated. He also teaches the material from a historical perspective which I really appreciate. I tend to believe this is how web programming should be taught - from a humble static website through to dynamic service oriented architectures.It's honestly refreshing to read a text like this. It reminds me of a Physical Chemistry textbook Professor Garetz used at Polytechnic. So few people write about complicated subjects without drowning it in terminology. It's a quality you see in these "bible" type textbooks which are still in usage 10, 20, 30+ years from their first edition run.As he states, "This doesn't mean this book is easy. It means you never get a complex explanation when a simple one will do. It means the discussion of each topic is no harder than it has to be. It means the book is for your ego trip, not mine; a reader is very smart when an author gets out of the way." How bhuddist.A note on the dating: when you hit the last two chapters you'll start to realize the content there is not very relevant for today (specifically the programming chapter) but by then you'll have learned so so much you won't even care.

I've taken electronics classes so the first part of the book was review and the last part was review, the chapter on microcode paid for the book. That was the one step that had never been clear to me before. Fantastic find.

Great book if you want to learn how a computer is built, still relevant! This book should be in your computer science library!

Great for the electronics enthusiast. Easy to read, and full of great information. Has complete schematics for SAP-1 and a complete parts list in the back.

Good book. Contains many insights into how a computer or cpu work.

Digital Electronics: A Primer : Introductory Logic Circuit Design (Icp Primers in Electronics and Computer Science) 1st Grade Computer Basics : The Computer and Its Parts: Computers for Kids First Grade (Children's Computer Hardware Books) Digital Computer Electronics Digital Logic Design and Computer Organization with Computer Architecture for Security Digital Storytelling: Capturing Lives, Creating Community (Digital Imaging and Computer Vision) Shocking! Where Does Electricity Come From? Electricity and Electronics for Kids - Children's Electricity & Electronics Hacking Electronics: Learning Electronics with Arduino and Raspberry Pi, Second Edition Scaling and Integration of High-Speed Electronics and Optomechanical Systems (Selected Topics in Electronics and Systems) Science Fair Projects With Electricity & Electronics: Electricity & Electronics Bitcoin Basics: Cryptocurrency, Blockchain And The New Digital Economy (Digital currency, Cryptocurrency, Blockchain, Digital Economy) Photography: Complete Guide to Taking Stunning,Beautiful Digital Pictures (photography, stunning digital, great pictures, digital photography, portrait ... landscape photography, good pictures) Photography: DSLR Photography Secrets and Tips to Taking Beautiful Digital Pictures (Photography, DSLR, cameras, digital photography, digital pictures, portrait photography, landscape photography) Microelectronic Circuit Design, 5th Edition (Irwin Electronics & Computer Enginering) Design of Analog CMOS Integrated Circuits (Irwin Electronics & Computer Enginering) Auto Electricity and Electronics: Principles, Diagnosis, Testing, and Service of All Major Electrical, Electronic, and Computer Control Systems Photonics: Optical Electronics in Modern Communications (The Oxford Series in Electrical and Computer Engineering) Engineering Electromagnetics (Irwin Electronics & Computer Enginering) Electric Machinery Fundamentals (Irwin Electronics & Computer Enginering) Comfort at Your Computer: Body Awareness Training for Pain-Free Computer Use Crs Computer-Related Syndrome: The Prevention & Treatment of Computer-Related Injuries