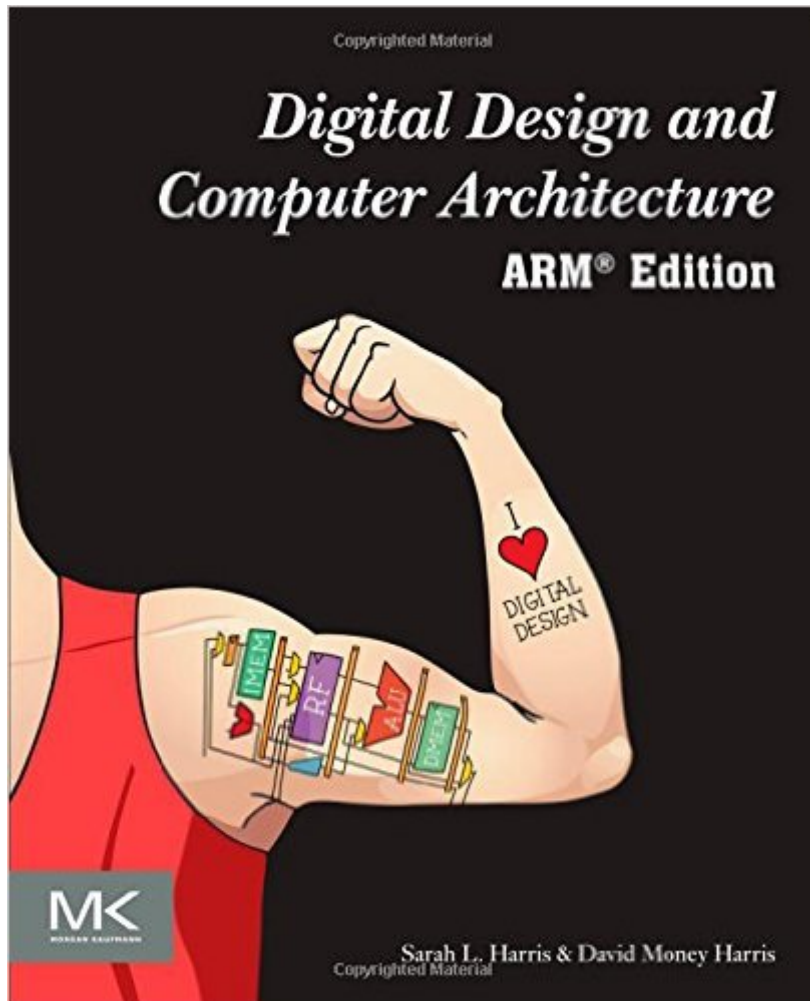


The book was found

Digital Design And Computer Architecture: ARM Edition



Synopsis

Digital Design and Computer Architecture: ARM Edition takes a unique and modern approach to digital design. Beginning with digital logic gates and progressing to the design of combinational and sequential circuits, Harris and Harris use these fundamental building blocks as the basis for what follows: the design of an actual ARM processor. With over 75% of the world's population using products with ARM processors, the design of the ARM processor offers an exciting and timely application of digital design while also teaching the fundamentals of computer architecture.

SystemVerilog and VHDL are integrated throughout the text in examples illustrating the methods and techniques for CAD-based circuit design. By the end of this book, readers will be able to build their own microprocessor and will have a top-to-bottom understanding of how it works. Harris and Harris have combined an engaging and humorous writing style with an updated and hands-on approach to digital design. Covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor. Features side-by-side examples of the two most prominent Hardware Description Languages (HDLs) • SystemVerilog and VHDL • which illustrate and compare the ways each can be used in the design of digital systems. Includes examples throughout the text that enhance the reader's understanding and retention of key concepts and techniques. The Companion website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. The Companion website also includes appendices covering practical digital design issues and C programming as well as links to CAD tools, lecture slides, laboratory projects, and solutions to exercises.

Book Information

Paperback: 584 pages

Publisher: Morgan Kaufmann; 1 edition (May 6, 2015)

Language: English

ISBN-10: 0128000562

ISBN-13: 978-0128000564

Product Dimensions: 7.5 x 1.1 x 9.1 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars • See all reviews • (3 customer reviews)

Best Sellers Rank: #75,864 in Books (See Top 100 in Books) #8 in Books > Computers &

Technology > Hardware & DIY > Microprocessors & System Design > Microprocessor Design #13

inÂ Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Logic #18 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Design

Customer Reviews

This book is a great service to the education community. Being able to morph the ARM design smoothly from the earlier design / methodology we used to teach MIPS processors is great. It simplifies teaching, and I think teaching ARM is a better choice than MIPS because it is more relevant from a practical point of view.

Brand new book and Armv4 old technology :(Te assembly language is way out of date.

An awesome and comprehensive book.

[Download to continue reading...](#)

Digital Design and Computer Architecture: ARM Edition ARM Assembly Language Programming & Architecture (ARM books) (Volume 1) Embedded Linux Porting on ARM & RFID Implementation Using ARM SoC: Developing a flexible and agile Board Secure Package Linux with multiple applications Digital Logic Design and Computer Organization with Computer Architecture for Security Computer Organization and Design, Fifth Edition: The Hardware/Software Interface (The Morgan Kaufmann Series in Computer Architecture and Design) Computer Organization and Design: The Hardware/Software Interface (The Morgan Kaufmann Series in Computer Architecture and Design) Digital Design and Computer Architecture, Second Edition Cryptocurrency: Guide To Digital Currency: Digital Coin Wallets With Bitcoin, Dogecoin, Litecoin, Speedcoin, Feathercoin, Fedoracoin, Infinitecoin, and ... Digital Wallets, Digital Coins Book 1) Python: Python Programming For Beginners - The Comprehensive Guide To Python Programming: Computer Programming, Computer Language, Computer Science Python: Python Programming For Beginners - The Comprehensive Guide To Python Programming: Computer Programming, Computer Language, Computer Science (Machine Language) A-Life for Music: Music and Computer Models of Living Systems (Computer Music and Digital Audio Series) A Digital Signal Processing Primer: With Applications to Digital Audio and Computer Music Digital Storytelling: Capturing Lives, Creating Community (Digital Imaging and Computer Vision) Photography: DSLR Photography Secrets and Tips to Taking Beautiful Digital Pictures (Photography, DSLR, cameras, digital photography, digital pictures, portrait photography, landscape photography) Digital Painting Techniques: Practical

Techniques of Digital Art Masters (Digital Art Masters Series) Photography: Complete Guide to Taking Stunning, Beautiful Digital Pictures (photography, stunning digital, great pictures, digital photography, portrait ... landscape photography, good pictures) The Ultimate Guide to Machine Quilting: Long-arm and Sit-down - Learn When, Where, Why, and How to Finish Your Quilts The Ear, the Eye, and the Arm Knitting Without Needles: A Stylish Introduction to Finger and Arm Knitting The Arsenal of Democracy: FDR, Detroit, and an Epic Quest to Arm an America at War

[Dmca](#)