
Digital Design and Computer Architecture Second Edition David Money Harris and Sarah L. Harris

"Harris and Harris have taken the popular pedagogy from Computer Organization and Design down to the next level of refinement, showing in detail how to build a MIPS microprocessor in both Verilog and VHDL. Given the exciting opportunity that students have to run large digital designs on modern FPGAs, the approach the authors take in this book is both informative and enlightening."

-David A. Patterson, University of California at Berkeley, Co-author of Computer Organization and Design

Digital Design and Computer Architecture 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 MIPS processor. 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. This second edition has been updated with new content on I/O systems in the context of general purpose processors found in a PC as well as microcontrollers found almost everywhere. The new edition provides practical examples of how to interface with peripherals using RS232, SPI, motor control, interrupts, wireless, and analog-to-digital conversion. High-level descriptions of I/O interfaces found in PCs include USB, SDRAM, WiFi, PCI Express, and others. In addition to expanded and updated material throughout, SystemVerilog is now featured in the programming and code examples (replacing Verilog), alongside VHDL. This new edition also provides additional exercises and a new appendix on C programming to strengthen the connection between programming and processor architecture.

SECOND Edition Features
- Covers the fundamentals of digital logic design and reinforces logic concepts through the design of a MIPS 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.
- Companion Web site includes links to CAD tools for FPGA design from Altera and Mentor Graphics, lecture slides, laboratory projects, and solutions to exercises.
- David Money Harris Professor of Engineering, Harvey Mudd College
- Sarah L. Harris Associate Professor of Engineering, Harvey Mudd College

Updated based on instructor feedback with more exercises and new examples of parallel and advanced architectures, practical I/O applications, embedded systems, and heterogeneous computing.

Presents digital system design examples in both VHDL and SystemVerilog (updated for the second edition from Verilog), shown side-by-side to compare and contrast their strengths.

Includes a new chapter on C programming to provide necessary prerequisites and strengthen the connection between programming and processor architecture.

Companion Web site includes links to Xilinx CAD tools for FPGA design, lecture slides, laboratory projects, and solutions to exercises.

Instructors can also register at textbooks.elsevier.com for access to: Solutions to all exercises (PDF) Lab materials with solutions HDL for textbook examples and ex

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creation of computer systems. It summarizes the tools of logic design and their.


Computer system architecture, M. Morris Mano, 1976, Computers, 478 pages. Focused primarily on hardware design and organization and the impact of software on the architecture this volume first covers the basic organization, design, and programming of.

Afoot and Afield: Inland Empire A Comprehensive Hiking Guide, David Money Harris, Jennifer Money Harris, Oct 9, 2013, Sports & Recreation, 408 pages. The Inland Empire, east of Los Angeles, is known as Southern California's big backyard. The nearly 200 noteworthy hikes in this guide explore the state's three tallest.


Computer Organization, V. Carl Hamacher, Zvonko G. Vranesic, Safwat G. Zaky, Jan 1, 1978, Computer architecture, 465 pages. Basic structure of computers; Addressing methods and machine program sequencing; Instruction sets and their implementation; The central processing unit; Microprogrammed control.


Digital Circuits, William J. Streib, 1990, Technology & Engineering, 408 pages. Partial Contents: Transistor Theory; Mosfets; Logic Element Input and Output; Logic Circuit Design; Karnaugh Maps; ROMs, RAMs, Magnetic Memories, PROMs, EPROMs, and EEPROMs.


Digital Electronics Principles, Devices and Applications, Anil K. Maini, Sep 27, 2007, Technology & Engineering, 752 pages. Digital Electronics Anil K. Maini Laser Science and Technology Center, Delhi, India The fundamentals and implementation of digital electronics are essential to understanding.

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State and National Correctional Institutions of the United States of America, Canada, England and Scotland, 1956, Reformatories
Classics of modern fiction eight short novels, Irving Howe, 1968, Fiction, 563 pages

100 Malicious Little Mysteries, Martin Harry Greenberg, Isaac Asimov, Joseph D. Olander, 2004, Fiction, 432 pages. Charmingly insidious and satisfyingly devious, these 100 baffling little mysteries selected by such prominent authors as Isaac Asimov are just the thing to suit your most


Oogo was a small cave boy. He was seven summers old with long tangled dark brown hair and hazel green eyes. He wore a tiger skin and walked barefooted everywhere he went. Oogo. Based on the television series "Blue Water High" - The story of twelve months at the academy seen through the eyes of fifteen-year-old Fly Watson, whose is passionate about. Lists fifty popular reasons people believe in a god and discusses their validity, including divine justice, beliefs on creationism, and fear of the afterlife.

Sniper, Tom Onstott, 2011, Fiction, 260 pages. Could it happen? In the aftermath of 9/11 fear and confusion created a country-wide cry for protection against another terrorist attack. The government responded by passing the


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Jane Austen Sense and Sensibility; Pride and Prejudice; Mansfield Park; Emma; Northanger Abbey; Persuasion; Lady Susan; Love and Friendship, Jane Austen, Oct 1, 2006, Fiction, 792 pages. Jane Austen's complete novels, collected together in one uniquely comprehensive volume, now published with the complete set of Hugh Thomson's famous illustrations. Comprises

Darkest Longings, Susan Lewis, Oct 31, 2010, Fiction, 640 pages. Claudine Rafferty is rich, reckless and beautiful. So when she throws herself into an arranged marriage with the eminently eligible but notorious François de Lorvoire, everyone

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Album Nos, Castelao, 1984, Galician wit and humor, Pictorial, 49 pages. A colección recollida nun álbum editado a iniciativa dun grupo de amigos de Castelao e sufragado por estes, nos prelos da 'Casa Hauser y Menet' de Madrid. No prólogo do álbum Present Knowledge in Nutrition Prepared from Articles Published in the Journal Nutrition Reviews, 1953, Nutrition, 122 pages. Granada Television--The First Generation, John Finch, Michael Cox, Marjorie Giles, Nov 8, 2003, Performing Arts, 294 pages. Unique, readable first hand accounts of one of the most significant periods in British television history. Introductory essay from leading academic Julia Hallam (University of Fast Answers). Whatever You Do, However You Work Jason Cranford Teague and Sybex specially designed Photoshop 7 at Your Fingertips to bring to light the capabilities of this. A toddler learns to play hand-clapping games. Test with success using New York Test Prep! This book features essential test practice in reading, math, and language for students in grade 4 and provides the most.

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Advances in Economic Theory: Volume 2 Sixth World Congress, Jean-Jacques Laffont, Feb 24, 1995, Business & Economics, 450 pages. This book gives the reader a unique survey of the most recent advances in economic theory.

Time for meaning crafting literate lives in middle and high school, Randy Bomer, 1995, Education, 234 pages. What a refreshing treat of a book! This is an honest, personal, and very enlightening view of one teacher and his students. Time for Meaning reads like a novel, a poem, a short story... The writer's Harbrace handbook, Cheryl Glenn, Robert K. Miller, Suzanne Strobeck Webb, Loretta Gray, 2004, Language Arts & Disciplines, 896 pages. Bringing fresh voices and insight to the compact yet comprehensive WRITER'S HANDBOOK, Second Edition, rhetorician Cheryl Glenn and linguist Loretta Gray provide this... In The Resilient Power of Purpose, Larry DiAngi offers inspiring yet practical advice on how to make your dreams a reality. By following the seven principles Larry sets out in... This updated edition of... Religion and the American Constitutional Experiment provides a comprehensive, multidisciplinary overview of the history, theory, law, and comparative... The most-requested recipes from the pages of the wildly successful Simplylite magazine. This is a collection of tasty, simple and easy to prepare recipes, all low-fat.
Songs from dreamland original lullabies, Lois Duncan, Kay Chorao, Apr 8, 1989, Juvenile Nonfiction, 38 pages. An illustrated collection of lullabies and poems about sleep.


In The Zero Marginal Cost Society, New York Times bestselling author Jeremy Rifkin describes how the emerging Internet of Things is speeding us to an era of nearly free goods. As college classrooms have become more linguistically diverse, the work of ESOL professionals has expanded to include research on the experiences of multilingual learners.


Exploring Windows 8 For Dummies, Galen Gruman, Dec 6, 2012, Computers, 144 pages. Get up to speed on Windows 8! Exploring Windows 8 For Dummies packs 168 pages of magazine-style articles, lavish illustrations, and great tips into an eye-catching publication.
Bells for Caroline, Iris Nolan, 1986, Fiction, 148 pages. "Carolyn, proud, obstinate and independent, is a scandinavian immigrant to New Zealand. From the sailing ship that brings her from Norway to the school bells in Napier she Cannibals and missionaries, John Fuller, 1972, Poetry, 63 pages
England, Ireland, and America, Richard Cobden, 1980, History, 119 pages


Davidson's principles and practice of medicine, Sir Stanley Davidson, Christopher Haslett, Dec 9, 2002, Medical, 1274 pages. This internationally renowned, best-selling textbook provides a rational and easily understood basis for the practice of clinical medicine. Since it was first published, this Digital Design and Computer Architecture, David Money Harris, Sarah L. Harris

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Advanced Gundog Training Practical Fieldwork and Competition, Martin Deeley, Feb 14, 2001, Pets, 176 pages. In this book, Martin Deeley, a professional gundog trainer, explains how to refine and improve the skills of dog and handler up to the level of formal shoots and competitions.


The Oxford Treasury of Time Poems, Michael Harrison, Christopher Stuart-Clark, May 1, 2000, Juvenile Nonfiction, 160 pages. A collection of poems about the many aspects of time, by such authors as Emily Dickinson, David McCord, and D.H. Lawrence. The 10th in a series of volumes composed of entries removed from Who's Who on account of death, each with the date of death added and, where necessary, given a final revision.

Wuthering Heights Notes, Janet C. James, 1979, Study Aids, 73 pages. Charlotte Bronte wrote in the preface to her sister Emily's novel that the book was "hewn in a wild workshop, with simple tools, out of homely materials." Indeed. What was Summer Seafood, Susan Tomnay, 2004, Cooking (Seafood), 64 pages


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Juan the Bear and the Water of Life La Acequia de Juan del Oso, Enrique R. Lamadrid, Juan Arellano, Oct 17, 2012, Juvenile Fiction, 48 pages. La Acequia del Rito y la Sierra in the Mora Valley is the highest and most famous traditional irrigation system in New Mexico. It carries water up and over a mountain ridge and

Molly’s Daughter A Three Generation Story Exploring: What Do Women Really Want, Margaret Frings Keyes, Oct 1, 2008, Fiction, 332 pages. Molly’s Daughter, the novelized memoir of one family, deals with the eldest daughter of three generations of women, each on the turning edge of social change. Family and social

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My Album of Memories, Grace Z. Hartwick

Blind Signal Processing Theory and Practice, Xizhi Shi, Dec 28, 2011, Technology & Engineering, 382 pages. This text introduces related fundamental mathematics in the field of blind signal processing and covers many advances. It includes results from Shanghai Jiao Tong University.
Papa and Fidel, Karl Alexander, Apr 27, 2010, Fiction, 320 pages. This novel about fathers and sons, hope and redemption, the author of Time After Time brilliantly evokes cultural icons in a thriller that captures the essence of its famous


Alexander and the wind-up mouse, Leo Lionni, 1969, Mice, 31 pages. Alexander, a real mouse, wants to be a toy mouse like his friend Willy until he discovers Willy is to be thrown away

THE INSPIRATION BEHIND THE BBC DRAMA THE CRIMSON FIELD 'On the face of it,' writes Lyn Macdonald, 'no one could have been less equipped for the job than these gently nurtured. Arrows of Longing presents an Anais Nin radically different from the self-conscious persona of the diaries and fiction. The woman engaged in this long, private correspondence.
Wok Meals in Minutes, 1999, Quick and easy cookery, 119 pages

Family, self, and society: emerging issues, alternatives, and interventions, Douglas B. Gutknecht, Edgar W. Butler, Nov 13, 1985, Social Science, 373 pages. This new second edition has been reconstructed and rewritten to cover emerging issues and trends impacting the modern family, while continuing to analyze important traditional

Tilly Alone, CATHERINE COOKSON, 1982

GAC Special Paper, Paul Frederick Karrow, Parker Emerson Calkin, 1985, Geology, 258 pages.

Time to Depart, Lindsey Davis, 1996, English fiction, 367 pages. One dark and gloomy dawn Petro and Falco put the evil Balbinus aboard ship, a criminal sent into exile. But an outbreak of robbery and murder suggest a new criminal ring has formed.

Filmadelphia: A Celebration of a City's Movies, Irv Slifkin, 2006, Business & Economics, 203 pages. As he is walking home from the park, the Phillie Phanatic stumbles upon a mysterious glowing object that had fallen from the sky. When he reaches down to touch it - ZAP! - he offers techniques for plotting and planning; instructions for growing fruits, vegetables, herbs, and berries; and tips on pruning, feeding and harvesting a garden.

The assassination of President John F. Kennedy on 22 November 1963 remains one of the greatest mysteries of the twentieth century. At the centre of the puzzle stands the.

Beyond Dealmaking Five Steps to Negotiating Profitable Relationships, Melanie Billings-Yun, Dec 9, 2009, Business & Economics, 256 pages. Praise for Beyond Dealmaking “Every potential rainmaker and savvy competitor needs Melanie Billings-Yun’s GRASP method for negotiation. You’ll never have to search for leads Physics for Scientists and Engineers, Volume 2, Part 1, Paul Allen Tipler, Gene Mosca, 2004, Physics, 1356 pages Elsevier, 2013 The book introduces the newcomer to personal computing to the basic components and operation of the IBM-compatible PC, and discusses purchasing decision, for both hard-and. In the City, where an iron-fisted Mayor's goal is perfect control through education, fifteen-year-old Tack is torn between a growing sympathy for the Truancy, an underground.

The Art world a seventy-five-year treasury of ARTnews, Barbaralee Diamonstein, 1977, Art, 459 pages

Brakes, John Remling, Feb 2, 1983, Technology & Engineering, 328 pages

Presents a selection of children's poetry specifically meant to be read aloud. There are around 700,000 new businesses starting up each year, all of which are required to register with HM Revenue & Customs for their different liable taxes. If a business. Sharon Lawrence is a journalist who knew Hendrix well, became his confidante and saw him a number of times in the weeks before his death. This book contains rare material.
Optimizing the Shape of Mechanical Elements and Structures, Shirley Seireg, Jan 2, 1997, Technology & Engineering, 616 pages. This work introduces a wide variety of practical approaches to the synthesis and optimization of shapes for mechanical elements and structures. The simplest methods for

Deadly Infatuation, Daisy DeMay, May 3, 2011, . 

"Clara is a young student who thought she had her life figured out. She is the daughter of a well known plastic surgeon, but has never let her father's fortune dictate who she

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