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Miloš D. Ercegovac - Computer Science

document will serve as a self-contained introduction to digital systems. Go Bears! 1. Introduction Logic circuits are the basis for modern digital computer systems. To appreciate how computer systems operate you will need to understand digital logic and Boolean algebra. This chapter provides only a basic introduction to Boolean algebra – describing it in its entirety would take up an entire textbook.

Introduction to Digital Systems

we tend to miss seeing them. Almost all electronic systems are partially or totally Introduction to Digital Systems: Modeling, Synthesis, and Simulation Using VHDL, First Edition. Mohammed Ferdjallah. 2011 John Wiley & Sons, Inc. Published 2011 by John Wiley & Sons, Inc. 1 www.it-ebooks.info

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INTRODUCTION TO DIGITAL SYSTEMS - Forward

This book was assigned for my undergrad intro digital logic class. It is probably the worst possible introduction to the subject. The material is only mildly to moderately difficult in practice, but the authors managed to make it convoluted.

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INTRODUCTION TO DIGITAL SYSTEMS, by Milós Ercegovac, Tomás Lang and Jaime H. Moreno, Wiley, Chichester, UK, 1999, 498 pages, inc. CD and Index Buy Introduction to Digital Systems on Amazon.com

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Introduction to Digital Systems, M. Ercegovac, T. Lang, J.H. Moreno, John Wiley, 1999 (required). Logic and Computer Design Fundamentals, M.M. Mano and C.R. Kime, 2nd edition, Prentice Hall, 2000 (recommended).

This manual covers more topics related to the field: advanced implementation of algorithmic systems and advanced material on VHDL design. A real emphasis is placed on the hierarchical approach to the design of digital systems and is followed consistently throughout the text.

Market_Desc: Electrical and Computer Engineers, and Students and Professors. Special Features: " Contains a web site with material on these and other related topics."
Introduces analysis and design methods that are hierarchical and structured. About The Book: This book provides a solid foundation in the elements of basic digital electronics and switching theory that are used in most practical digital designs today, and builds on that theory of discussions of real world digital components, design methodologies, and tools.

The authoritative reference on the theory and design practice of computer arithmetic.

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This modern treatment of digital system specification, analysis, and design covers all topics from gates and flip-flops to complex hardware and system software algorithms. An upper-level undergraduate/graduate text, it uses two complementary approaches--system model and algorithmic model--in dealing with structured analysis and design, and separates specification from implementation to allow for the ready application of concepts to practical system design. Extensive illustrations and 500 exercises.

Introduction to Digital Systems introduces digital electronics from first principles and goes on to cover all the main areas of knowledge and expertise needed by students up to first year degree level, as well as technicians and other professionals. Unlike most texts, Introduction to Digital Systems also covers the practicalities of designing and building circuits, including fault-finding and use of test equipment. Students will find the text ideally matched for courses covering electronics, systems and control, and electronic servicing. Whether you are looking for a complete self-study course in digital electronics, a concise reference text to dip into or a course text that is readable and straightforward, John Crisp has provided the solution. A concise, readable introductory text ideal for self-study by professionals or students on courses with limited contact time Covers the practical side from a technician/professional viewpoint Content carefully matched to a range of BTEC and C&G syllabuses

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing

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in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

This textbook for a one-semester course in Digital Systems Design describes the basic methods used to develop traditional Digital Systems, based on the use of logic gates and flip flops, as well as more advanced techniques that enable the design of very large circuits, based on Hardware Description Languages and Synthesis tools. It was originally designed to accompany a MOOC (Massive Open Online Course) created at the Autonomous University of Barcelona (UAB), currently available on the Coursera platform. Readers will learn what a digital system is and how it can be developed, preparing them for steps toward other technical

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disciplines, such as Computer Architecture, Robotics, Bionics, Avionics and others. In particular, students will learn to design digital systems of medium complexity, describe digital systems using high level hardware description languages, and understand the operation of computers at their most basic level. All concepts introduced are reinforced by plentiful illustrations, examples, exercises, and applications. For example, as an applied example of the design techniques presented, the authors demonstrate the synthesis of a simple processor, leaving the student in a position to enter the world of Computer Architecture and Embedded Systems.

Digital Design: An Embedded Systems Approach Using Verilog provides a foundation in digital design for students in computer engineering, electrical engineering and computer science courses. It takes an up-to-date and modern approach of presenting digital logic design as an activity in a larger systems design context. Rather than focus on aspects of digital design that have little relevance in a realistic design context, this book concentrates on modern and evolving knowledge and design skills. Hardware description language (HDL)-based design and verification is emphasized--Verilog examples are used extensively throughout. By treating digital logic as part of embedded systems design, this book provides an understanding of the hardware needed in the analysis and design of systems comprising both hardware and software components. Includes a Web site with links to vendor tools, labs and tutorials. Presents digital logic design as an activity in a larger systems design context Features extensive use of Verilog examples to demonstrate HDL (hardware description language) usage at the abstract behavioural level and register transfer level, as well as for low-level verification and verification environments Includes worked examples throughout to enhance the reader's understanding and

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retention of the material Companion Web site includes links to tools for FPGA design from Synplicity, Mentor Graphics, and Xilinx, Verilog source code for all the examples in the book, lecture slides, laboratory projects, and solutions to exercises

Digital Design and Computer Architecture: ARM Edition covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor. Combining an engaging and humorous writing style with an updated and hands-on approach to digital design, this book takes the reader from the fundamentals of digital logic to the actual design of an ARM processor. 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.

Beginning with digital logic gates and progressing to the design of combinational and sequential circuits, this book uses these fundamental building blocks as the basis for designing an ARM processor. SystemVerilog and VHDL are integrated throughout the text in examples illustrating the methods and techniques for CAD-based circuit design. 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. This book will be a valuable resource for students taking a course that combines digital logic and computer architecture or students taking a two-quarter sequence in digital logic and computer organization/architecture. 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

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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.

This textbook, based on the author's fifteen years of teaching, is a complete teaching tool for turning students into logic designers in one semester. Each chapter describes new concepts, giving extensive applications and examples. Assuming no prior knowledge of discrete mathematics, the authors introduce all background in propositional logic, asymptotics, graphs, hardware and electronics. Important features of the presentation are: □ All material is presented in full detail. Every designed circuit is formally specified and implemented, the correctness of the implementation is proved, and the cost and delay are analyzed □ Algorithmic solutions are offered for logical simulation, computation of propagation delay and minimum clock period □ Connections are drawn from the physical analog world to the digital abstraction □ The language of graphs is used to describe formulas and circuits □ Hundreds of figures, examples and exercises enhance understanding. The extensive website (<http://www.eng.tau.ac.il/~guy/Even-Medina/>) includes teaching slides, links to Logisim and a DLX assembly simulator.

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