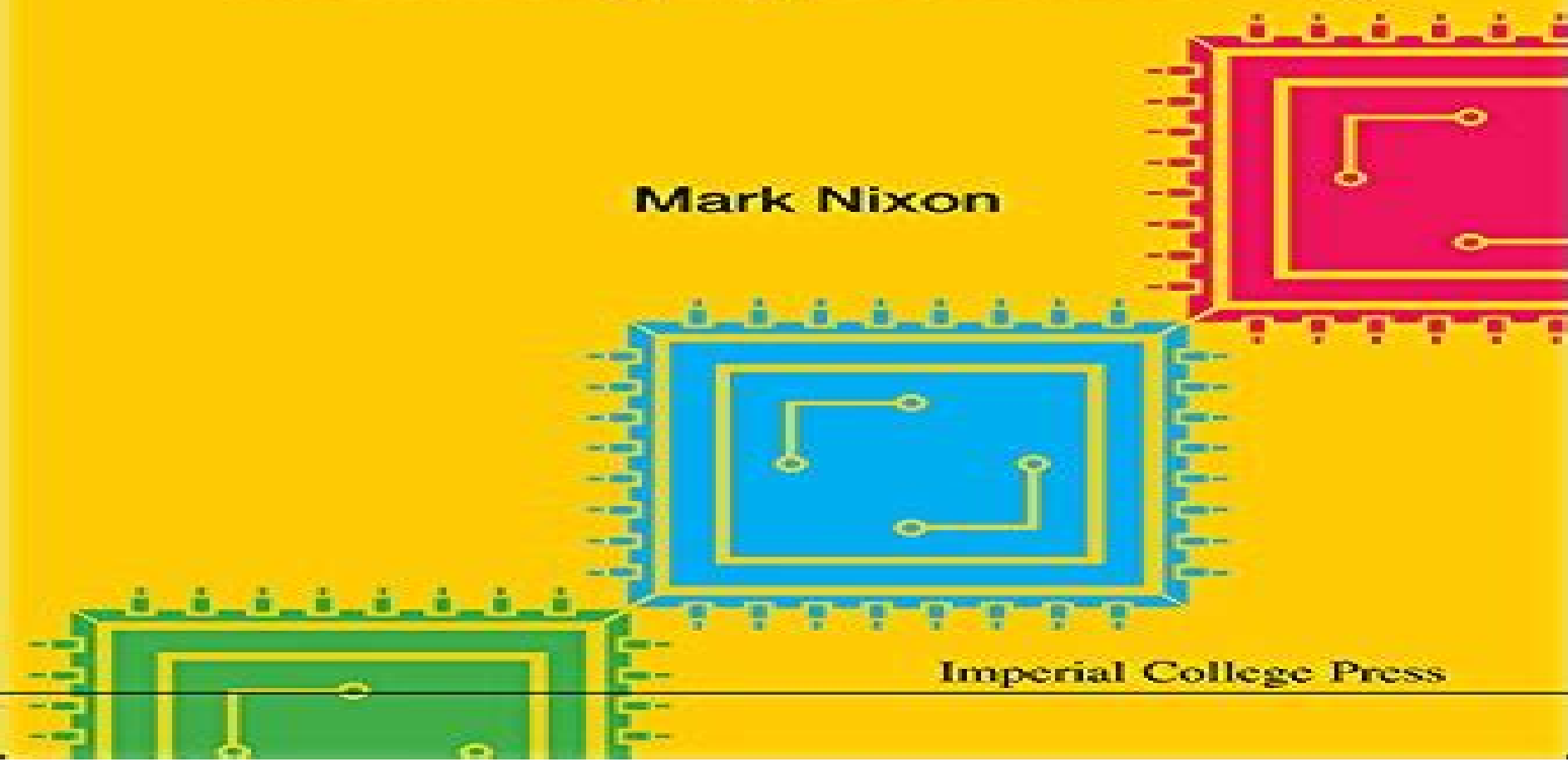


Digital Electronics: A Primer

Introductory Logic Circuit Design

Mark Nixon

Imperial College Press



Digital Electronics A Primer Introductory Logic Circuit Design Icp Primers In Electronics And Computer Science

Robert Dueck, Ken Reid



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Digital Electronics: A Primer - Introductory Logic Circuit Design Mark S Nixon, 2015-01-27 This practical introduction explains exactly how digital circuits are designed from the basic circuit to the advanced system It covers combinational logic circuits which collect logic signals to sequential logic circuits which embody time and memory to progress through sequences of states The primer also highlights digital arithmetic and the integrated circuits that implement the logic functions Based on the author's extensive experience in teaching digital electronics to undergraduates the book translates theory directly into practice and presents the essential information in a compact digestible style Worked problems and examples are accompanied by abbreviated solutions with demonstrations to ensure that the design material and the circuits operation are fully understood This is essential reading for any electronic or electrical engineering student new to digital electronics and requiring a succinct yet comprehensive introduction

Image Processing And Analysis: A Primer Georgy Gimel'farb, Patrice Delmas, 2018-08-24 This textbook guides readers through their first steps into the challenging world of mimicking human vision with computational tools and techniques pertaining to the field of image processing and analysis While today's theoretical and applied processing and analysis of images meet with challenging and complex problems this primer is confined to a much simpler albeit critical collection of image to image transformations including image normalisation enhancement and filtering It serves as an introduction to beginners a refresher for undergraduate and graduate students as well as engineers and computer scientists confronted with a problem to solve in computer vision The book covers basic image processing computer vision pipeline techniques which are widely used in today's computer vision computer graphics and image processing giving the readers enough knowledge to successfully tackle a wide range of applied problems

An Elementary Approach To Design And Analysis Of Algorithms Lekh Rej Vermani, Shalini Vermani, 2019-05-29 The book under review is an interesting elaboration that fills the gaps in libraries for concisely written and student friendly books about essentials in computer science I recommend this book for anyone who would like to study algorithms learn a lot about computer science or simply would like to deepen their knowledge The book is written in very simple English and can be understood even by those with limited knowledge of the English language It should be emphasized that despite the fact that the book consists of many examples mathematical formulas and theorems it is very hard to find any mistakes errors or typos

zbMATH In computer science an algorithm is an unambiguous specification of how to solve a class of problems Algorithms can perform calculation data processing and automated reasoning tasks As an effective method an algorithm can be expressed within a finite amount of space and time and in a well defined formal language for calculating a function Starting from an initial state and initial input perhaps empty the instructions describe a computation that when executed proceeds through a finite number of well defined successive states eventually producing output and terminating at a final ending state The transition from one state to the next is not necessarily deterministic some algorithms known as

randomized algorithms incorporate random input This book introduces a set of concepts in solving problems computationally such as Growth of Functions Backtracking Divide and Conquer Greedy Algorithms Dynamic Programming Elementary Graph Algorithms Minimal Spanning Tree Single Source Shortest Paths All Pairs Shortest Paths Flow Networks Polynomial Multiplication to ways of solving NP Complete Problems supported with comprehensive and detailed problems and solutions making it an ideal resource to those studying computer science computer engineering and information technology

Programming: A Primer - Coding For Beginners Thomas James Bell, 2015-07-03 Have you ever wanted to learn how to program but never found quite the right book to get you started Programming A Primer gets you going straight away with the fundamentals of what programming is basic programming with Python and the fundamental aspects of practical web development In this book you ll learn about Programming A Primer offers an easy way into coding for anyone with an interest in using technology to solve problems whether a school or new undergraduate computer science student or a working professional It gives everyone regardless of background the ideal foundations and motivation needed to get to grips with programming A companion website can be found here [D'oh! Fourier: Theory, Applications, And Derivatives](#) Mark S

Nixon, 2022-03-10 D oh Fourier introduces the Fourier transform and is aimed at undergraduates in Computer Science Mathematics and Applied Sciences as well as for those wishing to extend their education Formulated around ten key points this accessible book is light hearted and illustrative with many applications The basis and deployment of the Fourier transform are covered applying real world examples throughout inductively rather than the theoretical approach deductively The key components of the textbook are continuous signals analysis discrete signals analysis image processing applications of Fourier analysis together with the origin and nature of the transform itself D oh Fourier is reproducible via MATLAB Octave and is supported by a comprehensive website which provides the code contained within the book **Introduction**

to Digital Electronics Kenneth J. Reid, Robert K. Dueck, 2008 The perfect introduction to digital concepts applications and design Digital Design with CPLD Applications uses a logical organization of topics clear explanations and current examples to present key information in a way that is easy to grasp Unique in its approach this book covers combinational and sequential logic circuits using CPLDs while still covering circuit design at the gate level using TTL CMOS devices The book begins by introducing combinational logic including detailed explanations for implementing circuits in Altera Quartus II software and CPLDs The material continues to be presented at the gate level preparing readers to successfully navigate more complicated areas like functional circuits Using formal problem solving concepts combinational design is then covered which includes a large combinational design that includes the building and simulation of each component marking a valuable departure from traditional books in the field which do not cover large scale design at a combinational level Additional coverage includes sequential circuits with an emphasis on relevant and useful circuits and microprocessor and memory concepts **Digital Electronics** Anil K. Maini, 2007-09-27 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 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

Digital Electronic Circuits Shuqin Lou, Chunling Yang, 2019-05-20 This book presents three aspects of digital circuits digital principles digital electronics and digital design The modern design methods of using electronic design automation EDA are also introduced including the hardware description language HDL designs with programmable logic devices and large scale integrated circuit LSI The applications of digital devices and integrated circuits are discussed in detail as well

Foundation of Digital Electronics and Logic Design Subir Kumar Sarkar, Asish Kumar De, Souvik Sarkar, 2014-12-10 This book focuses on the basic principles of digital electronics and logic design It is designed as a textbook for undergraduate students of electronics electrical engineering computer science physics and information technology The text covers the syllabi of several Indian and foreign universities It depicts the comprehensive resources

Digital Circuit Design for Computer Science Students Niklaus Wirth, 2012-12-06 This book emerged from lecture notes of a course taught in the second year to students of Computer Science at the Federal Institute of Technology Zurich The topic of hardware design plays a relatively minor role in Computer Science curricula at many universities Most courses concentrate on the various aspects of theory software and of information systems Students therefore obtain few opportunities to deal with concrete engineering problems and physical devices We consider this as rather unfortunate particularly for technical universities As a result we observe a growing gap between interest in and understanding of design issues involving not only software but also hardware and interfaces This is regrettable at a time when new and advanced solutions to many problems are often crucially influenced by recent hardware developments at a time when the engineer needs to be competent in both software and hardware issues in order to find an optimally integrated competitive solution It turns out that the hesitation of many students in Computer Science to take an active interest in hardware is his or her daily tool

does not only stem from a preference of clean abstract concepts with a corresponding distaste for dealing with concrete components construction techniques and the dirty realities inflicted by nature but also stems from the lack of a bridge between the two realms

PRINCIPLES OF DIGITAL ELECTRONICS MEENA, K., 2009-12 This book teaches the basic principles of digital circuits It is appropriate for an introductory course in digital electronics for the students of B Sc Computer Science B Sc Electronics B Sc Information Technology B Sc Physics Bachelor of Computer Applications BCA Postgraduate Diploma in Computer Applications Master of Computer Applications MCA The book emphasizes the must know concepts that should be covered in an introductory course and provides an abundance of clearly explained examples so essential for a thorough understanding of the principles involved in the analysis and design of digital computers The book takes students step by step through digital theory focusing on Number representation systems and codes for representing information in digital systems Use of logic gates in building digital circuits Basic postulates and theorems of Boolean algebra Karnaugh map method for simplifying Boolean functions Arithmetic circuits such as adders and subtractors Combinational circuit building blocks such as multiplexers decoders and encoders Sequential circuit building blocks such as flip flops counters and registers Operation of memory elements such as RAM DRAM magnetic disk magnetic bubble optical disk etc 1 Number Systems and Codes 2 Logic Gates and Circuits 3 Boolean Algebra 4 Combinational Logic Circuits 5 Sequential Logic Circuits 6 Counters and Shift Registers 7 MEMORY ELEMENTS

Foundations of Analog and Digital Electronic Circuits

Anant Agarwal, Jeffrey Lang, 2005-07-01 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

Digital Electronics Demystified Myke Predko, 2005-01-11 The field of teaching digital electronics has not changed significantly in the past 20 years Many of the same books that first became available in the late 1970s and early 1980s are still being used as basic texts In the 20 years since these were written the basic rules have not changed but they do not provide strong links to modern electronics including CMOS logic Programmable Logic Devices and microprocessor microcontroller interfacing Courses teaching introductory digital electronics will fill in the missing areas of information for

students but neither the instructors nor students have resources to explain modern technology and interfaces One assumption made by all the standard texts is that experimenting with digital electronics cannot be done easily in the proposed book digital guru Myke Predko will show how readers can set up their own apparatus for experimenting with digital electronics for less than 10

Digital Electronics Robert Dueck, Ken Reid, 2011-09-19 DIGITAL ELECTRONICS offers a comprehensive computer supported introduction to digital electronics from basic electrical theory and digital logic to hands on high tech applications Designed to support Project Lead the Way's PLTW innovative Digital Electronics DE curriculum this dynamic text prepares students for college and career success in STEM Science Technology Engineering and Math The text introduces core concepts such as electrical shop practices and electrical theory enables students to gain confidence by exploring key principles and applying their knowledge and helps develop sophisticated skills in circuit analysis design and troubleshooting Many of the text's abundant examples and exercises support the use of Multisim allowing students to visualize and analyze circuits including combinational and sequential circuits before constructing them In addition a variety of proven learning tools make mastering the material easier including self check problems in every chapter Bring it Home questions to solidify core concepts and challenging Extra Mile problems to help students deepen their understanding and hone their skills As an integrated part of your PLTW program or a stand alone classroom resource DIGITAL ELECTRONICS is an ideal choice to support your students STEM success Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

Introduction to Digital Electronics J. Crowe, Barrie Hayes-Gill, 1998-03-27 This text takes the student from the very basics of digital electronics to an introduction of state of the art techniques used in the field It is ideal for any engineering or science student who wishes to study the subject from its basic principles as well as serving as a guide to more advanced topics for readers already familiar with the subject The coverage is sufficiently in depth to allow the reader to progress smoothly onto higher level texts

Electronic Logic Circuits J. Gibson, 2013-01-11 Most branches of organizing utilize digital electronic systems This book introduces the design of such systems using basic logic elements as the components The material is presented in a straightforward manner suitable for students of electronic engineering and computer science The book is also of use to engineers in related disciplines who require a clear introduction to logic circuits This third edition has been revised to encompass the most recent advances in technology as well as the latest trends in components and notation It includes a wide coverage of application specific integrated circuits ASICs many worked examples and a step by step logical and practical approach

Introduction to Modern Digital Electronics Charles Hawkins, Jaume Segura, 2010 Introduction to Modern Digital Electronics Preliminary Edition is an undergraduate textbook for electrical and computer engineering students that is dedicated solely to digital CMOS electronics It covers the same topics as graduate level textbooks but in an introductory style specifically crafted and course tested for undergraduates Students will not need a prerequisite in analog electronics allowing instructors

flexibility in course scheduling While there are several textbooks which include both analog and digital electronics and are used for both courses their digital modules continue to focus attention on outdated bipolar and nMOS logic Introduction to Modern Digital Electronics teaches the fundamentals of modern CMOS technology by focusing on central themes and avoiding overwhelming details Extensive examples self exercises and end of chapter problems assist in teaching the current practices of industry and subjects taught by graduate courses in microelectronics Computer engineering curriculums can remove the analog electronics prerequisite altogether when adopting this book The flow of material begins with a review of previous courses in circuit and logic theory relevant to digital electronics Elementary semiconductor physics then gives students an intuitive feel for how diodes and transistors work followed by chapters on transistors and how they are combined to make simple logic gates The book then shows how transistor logic circuits are designed from the logical Boolean equations that form the initial launch of a design with designing for lower power consumption as a priority subject Introduction to Modern Digital Electronics is also unique in that it presents timing the most difficult of the computer designer s tasks and an issue that is avoided by all other textbooks The remaining chapters describe memory metal thermal and capacitive properties FPGAs layout and then concludes with a chapter on how circuits are made in a chip factory

Digital Electronics with VHDL Design M. H. Hassan, 2008 This book presents the theory that is necessary for understanding the fundamentals of digital logic design in an easily understandable approach without the use of unnecessary formalism It emphasizes the design of digital networks and systems with clear explanations exceptional collection of design examples solved problems and many exercises The text provides such fundamental concepts as number systems Boolean algebra logic gates minimization of logic functions combinational network design with logic gates combinational logic design with standard modules arithmetic network design and introduction to design reliability of digital systems The text presents after covering the basics modern design techniques using programmable logic devices and the VHDL hardware description language The book also introduces Altera s Quartus II CAD software This textbook is intended for an introductory course in logic design taken by engineering engineering technology and computer science students for self learning or as a good reference for engineers and professionals About the Author Michael H Hassan holds B S in Electrical Engineering M S in Electronics Engineering and M S and Ph D in Electrical and Computer Engineering from WSU Michigan USA He is a Senior Member of IEEE member of Sigma Xi the Scientific Research Society Tau Beta Pi the Engineering Honor Society and Eta Kappa Nu the Electrical Engineering Honor Society Dr Hassan received the IEEE 2009 Outstanding Engineering Educator Award His teaching and research interests include digital systems theory and design microcomputer systems microelectronics and VLSI design Reconfigurable computing image processing and vision systems communication systems and networks and alternative energy systems He is the author of many papers and four textbooks including Microprocessors and Systems Design ISBN 9780981619439 Microprocessors Hardware and Software Design Using MC68000 ISBN 9780981619408 Digital Electronics

with VHDL Design ISBN 9780981619415 and Fundamentals of Digital Design With VHDL ISBN 9780981619446 *Digital Electronics 1* Tertulien Ndjountche, 2016-06-20 The omnipresence of electronic devices in our everyday lives has been accompanied by the downscaling of chip feature sizes and the ever increasing complexity of digital circuits This book is devoted to the analysis and design of digital circuits where the signal can assume only two possible logic levels It deals with the basic principles and concepts of digital electronics It addresses all aspects of combinational logic and provides a detailed understanding of logic gates that are the basic components in the implementation of circuits used to perform functions and operations of Boolean algebra Combinational logic circuits are characterized by outputs that depend only on the actual input values Efficient techniques to derive logic equations are proposed together with methods of analysis and synthesis of combinational logic circuits Each chapter is well structured and is supplemented by a selection of solved exercises covering logic design practices Modern Digital Electronics R Jain, 2006-08-21 Part of the McGraw Hill Core Concepts Series Modern Digital Electronics is an ideal textbook for a course on digital electronics at the undergraduate level The text introduces digital systems and techniques through a bottom up approach that allows users to start out with the basics of integrated circuits circuit design and delve into topics such as digital design flip flops A D and D A The book then moves on to explore elements of complex digital circuits with material like FPGAs PLDs PLAs and more Rich pedagogical features include review questions with answers a glossary of key terms a large number of solved examples and numerous practice problems This is a concise less expensive alternative to other digital logic designs This series is edited by Dick Dorf

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