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Digital Logic Design Brian Holdsworth

2002-11-01 New, updated and expanded topics in the fourth edition include: EBCDIC, Grey code, practical applications of flip-flops, linear and shaft encoders, memory elements and FPGAs. The section on fault-finding has been expanded. A new chapter is dedicated to the interface between digital components and analog voltages. *A highly accessible, comprehensive and fully up to date digital systems text *A well known and respected text now revamped for current courses *Part of the Newnes suite of texts for HND/1st year modules

Production Technology R.k Jain 2012

Business Ethics Stephen M. Byars 2018-09-24

Digital Circuits And Design, 3E Arivazhagan S Salivahanan 2009-11 The Use Of Digital Circuits Is Increasing In All Disciplines Of Engineering. Consequently Students Need To Have An In-Depth Knowledge On Them. Digital Circuits And Design Is A Textbook Dealing With The Basics Of Digital Technology Including The Design Asp

Microwave Engineering David M. Pozar 2011-11-22 Pozar's new edition of Microwave Engineering includes more material on active circuits, noise, nonlinear effects, and wireless systems. Chapters on noise and nonlinear distortion, and active devices have been added along with the coverage of noise and more material on intermodulation distortion and related nonlinear effects. On active devices, there's more updated material on bipolar junction and field effect transistors. New and updated material on wireless communications systems, including link budget, link margin, digital modulation methods, and bit error rates is also part of the new edition. Other new material includes a section on transients on transmission lines, the theory of power waves, a discussion of higher order modes and frequency effects for microstrip line, and a discussion of how to determine unloaded.

Switching Theory & Logic Design Atul P. Godse 2009 Number Systems and CodesPhilosophy of number systems - complement representation of

negative numbers - binary arithmetic - binary codes - error detecting and error correcting codes - hamming codes.Boolean Algebra and Switching FunctionsFundamental postulates of Boolean Algebra-Basic theorems and properties - switching functions - Canonical and Standard forms - Algebraic simplification - digital logic gates, properties of XOR gates - universal gates - Multilevel NAND/NOR realizations.Minimization of Switching FunctionsMap method, Prime implicants, Don't care combinations, Minimal SOP and POS forms, Tabular Method, Prime - Implicant chart, simplification rules.Combinational Logic DesignDesign using conventional logic gates, Encoder, Decoder, Multiplexer, De-Multiplexer, Modular design IC chips, MUX Realization of switching functions Parity bit generator, Code-converters, Hazards and hazard free realizations.Programmable Logic Devices, Threshold LogicBasic PLD's-ROM, PROM, PLA, PLD Realization of Switching functions using PLD's. Capabilities and limitations of Threshold gate, Synthesis of Threshold functions, Multigate Synthesis.Sequential Circuits - IClassification of sequential circuits (Synchronous, Asynchronous, Pulse mode, Level mode with examples) Basic flop-flops-Triggering and excitation tables. Steps in synchronous sequential circuit design. Design of modulo-N Ring and shift counters, Serial binary adder, sequence detector.Sequential Circuits - IIFinite state machine-capabilities and limitations, Mealy and Moore models-minimization of completely specified and incompletely specified sequential machines, Partition techniques and Merger chart methods-concept of minimal cover table.Algorithmic State MachinesSalient features of the ASM chart-Simple examples-System design using data path and control subsystems-control implementations-examples of Weighing machine and Binary multiplier.

The Zynq Book Louise H. Crockett 2014 This book is about the Zynq-7000 All Programmable System on Chip, the family of devices from Xilinx that combines an application-grade ARM Cortex-

A9 processor with traditional FPGA logic fabric. Catering for both new and experienced readers, it covers fundamental issues in an accessible way, starting with a clear overview of the device architecture, and an introduction to the design tools and processes for developing a Zynq SoC. Later chapters progress to more advanced topics such as embedded systems development, IP block design and operating systems. Maintaining a 'real-world' perspective, the book also compares Zynq with other device alternatives, and considers end-user applications. The Zynq Book is accompanied by a set of practical tutorials hosted on a companion website. These tutorials will guide the reader through first steps with Zynq, following on to a complete, audio-based embedded systems design.
Chanakya Neeti B. K. Chaturvedi 2017-08-30 One of the greatest figures of wisdom and knowledge in the Indian history is Chanakya. Chanakya is regarded as a great thinker and diplomat in India who is traditionally identified as Kautilya or Vishnu Gupta. Originally a professor of economics and political science at the ancient Takshashila University, Chanakya managed the first Maurya Emperor Chandragupta's rise to power at a young age. Instead of acquiring the seat of kingdom for himself, he crowned Chandragupta Maurya as the emperor and served as his chief advisor. Chanakya Neeti is a treatise on the ideal way of life, and shows Chanakya's deep study of the Indian way of life. These practical and powerful strategies provide a path to live an orderly and planned life. If these strategies are followed in any sphere of life, victory is certain. Chanakya also developed Neeti-Sutras (aphorisms ? pithy sentences) that tell people how they should behave. Chanakya used these sutras to groom Chandragupta and other selected disciples in the art of ruling a kingdom. But these sutras are also relevant in this modern age and are very useful for us. For the first time, Chanakya Neeti and Chanakya Sutras are compiled in this book to make Chanakya's

invaluable wisdom easily available to the common readers. This book presents Chanakya's powerful strategies and principles in a very lucid manner for the benefit of our valuable readers.
Digital Economy Harbhajan S. Kehal 2005-01-01 Annotation Digital Economy provides information about the socioeconomic aspects of the digital economy. This set of eighteen essays covers the effects of digital economy on business transactions, technology and culture, as well as on education. It also covers various aspects of global production, trade, and investment and the effects of the Internet.
PULSE AND DIGITAL CIRCUITS A. ANAND KUMAR 2008-02-12 The second edition of this well-received text continues to provide a coherent and comprehensive coverage of Pulse and Digital Circuits, suitable as a textbook for use by undergraduate students pursuing courses in Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, and Telecommunication Engineering. It presents clear explanations of the operation and analysis of semiconductor pulse circuits. Practical pulse circuit design methods are investigated in detail. The book provides numerous fully worked-out, laboratory-tested examples to give students a solid grounding in the related design concepts. It includes a number of classroom-tested problems to encourage students to apply theory in a logical fashion. Review questions, fill in the blanks, and multiple choice questions offer the students the opportunity to test their understanding of the text material. This text will be also appropriate for self-study by AMIE and IETE students. NEW TO THIS EDITION : • Includes two new chapters—Logic Gates and Logic Families—to meet the curriculum requirements. • Provides short questions with answers at the end of each chapter. • Presents several new illustrations, examples and exercises
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 Design (cd) 3rd Edition Mano 2006-02-01

The Challenge of Obesity in the WHO European Region and the Strategies for Response World Health Organization. Regional Office for Europe 2007 In a brief, clear and easily accessible way, this summary illustrates the dynamics of the obesity epidemic and its impact on public health throughout the WHO European Region,

particularly in eastern countries. It describes how factors that increase the risk of obesity are shaped in different settings, such as the family, school, community and workplace. It makes both ethical and economic arguments for accelerating action against obesity, and analyses effective programs and policies in different government sectors, such as education, health, agriculture and trade, urban planning and transport. The summary also describes how to design policies and programs to prevent obesity and how to monitor progress, and calls for specific action by stakeholders: not only government sectors but also the private sector - including food manufacturers, advertisers and traders - and professional consumers' and international and intergovernmental organizations such as the European Union.

Digital Electronics Practice Using Integrated Circuits R. P. Jain 2001-05 With the advent of integrated circuit technology, the importance and usefulness of digital electronics has vastly increased. The size, cost and power dissipation have been reduced in the ratio of 2,000:1 and the performance, reliability and efficiency of equipment increased tremendously. This book gives a basic concept of digital techniques and then introduces simple function to complex functions. It uses SSI and MSI, TTL ICs of the most commonly available 54/74 series. The book will be useful to students of electronics and computer technology, as well as to practicing engineers and technicians.

All-in-One Electronics Simplified A.K. Maini, Nakul Maini The All-in-one Electronics Simplified is comprehensive treatise on the whole gamut of topics in Electronics in Q &A format. The book is primarily intended for undergraduate students of Electronics Engineering and covers six major subjects taught at the undergraduate level students of Electronics Engineering and covers six major subjects taught at the undergraduate level including Electronic Devices and Circuits, Network Analysis , Operational Amplifiers and

Linear Integrated Circuits, Digital Electronics, Feedback and Control Systems and Measurements and Instrumentation. Each of the thirty chapters is configured as the Q&A part followed by a large number of Solved Problems. A comprehensive Self-Evaluation Exercise comprising multiple choice questions and other forms of objective type exercises concludes each chapter.

TCP/IP Illustrated, Volume 1 Kevin R. Fall 2011-11-08 "For an engineer determined to refine and secure Internet operation or to explore alternative solutions to persistent problems, the insights provided by this book will be invaluable." —Vint Cerf, Internet pioneer TCP/IP Illustrated, Volume 1, Second Edition, is a detailed and visual guide to today's TCP/IP protocol suite. Fully updated for the newest innovations, it demonstrates each protocol in action through realistic examples from modern Linux, Windows, and Mac OS environments. There's no better way to discover why TCP/IP works as it does, how it reacts to common conditions, and how to apply it in your own applications and networks. Building on the late W. Richard Stevens' classic first edition, author Kevin R. Fall adds his cutting-edge experience as a leader in TCP/IP protocol research, updating the book to fully reflect the latest protocols and best practices. He first introduces TCP/IP's core goals and architectural concepts, showing how they can robustly connect diverse networks and support multiple services running concurrently. Next, he carefully explains Internet addressing in both IPv4 and IPv6 networks. Then, he walks through TCP/IP's structure and function from the bottom up: from link layer protocols–such as Ethernet and Wi-Fi–through network, transport, and application layers. Fall thoroughly introduces ARP, DHCP, NAT, firewalls, ICMPv4/ICMPv6, broadcasting, multicasting, UDP, DNS, and much more. He offers extensive coverage of reliable transport and TCP, including connection management, timeout, retransmission, interactive data flow,

and congestion control. Finally, he introduces the basics of security and cryptography, and illuminates the crucial modern protocols for protecting security and privacy, including EAP, IPsec, TLS, DNSSEC, and DKIM. Whatever your TCP/IP experience, this book will help you gain a deeper, more intuitive understanding of the entire protocol suite so you can build better applications and run more reliable, efficient networks.

I-Spy: A Peep Into the World of Spies Amit Bagaria 2019-02-19 "The name is Bond - JAMES BOND. I am sure you've seen at least one, if not more of the 26 films made on fictional British spy 007. You may've also seen TV shows like The Americans, Blindspot, Chuck, Covert Affairs, Homeland, Nikita, Quantico, The Blacklist, and/or The Night Manager. I wrote this book after I realised that the average person may not know even one-sixth of what I know about spies and spying. Almost each of the Top 50 nations (by GDP, population or military power) has a spy agency/service. Many countries have more than one 'secret service' or 'intelligence agency'. USA has 16. Some countries' spy agencies are more powerful than entire smaller nations, with annual budgets larger than their GDPs. This books attempts to tell the story of 20 of the world's largest and most powerful spy agencies, details their important missions, reveals their darkest secrets, and gives you an inside perspective of the often quite gory but thrilling 'world of spies'. It gives you a 360° view of those spy agencies you only read about or see in a movie or TV show. With one chapter per agency, you can read only chapters you may be interested in. The life of most spies is not as glamorous as it is made out to be. You may think it is all about high-tech and guns and car chases and 'hot' women, but that's not the case. In the real spy world, the techniques boil down to the interpretation of basic human psychology. Even though a spy learns several action techniques on how to get out of a dangerous situation, including how to

withstand torture, if he/she is resorting to car chases, it means they're doing something wrong. Spies don't get paid very well. Gambling at a casino or flying on a private jet may be part of the job, but a spy doesn't get to spend this kind of money on personal expenses. Spies cannot disclose the nature of their work to their family and friends, to maintain secrecy. Many have to live away from home for weeks, months, even years. Married life is a mess, as the spouse starts suspecting the spy of having an affair. Who can become a spy? Do you need a law enforcement (police) or military background? Not really. Spies have degrees as diverse as law, political science, finance, economics - even professional athletes have become successful spies."

Computer Architecture and Organization John Patrick Hayes 1998 The third edition of Computer Architecture and Organization features a comprehensive updating of the material-especially case studies, worked examples, and problem sets-while retaining the book's time-proven emphasis on basic prinicples. Reflecting the dramatic changes in computer technology that have taken place over the last decade, the treatment of performance-related topics such as pipelines, caches, and RISC's has been expanded. Many examples and end-of-chapter problems have also been added.

Digital Electronics William H. Gothmann 1982-01-01

Modern Digital Electronics R. P. Jain 1997

Modern Medical Toxicology Pillay 2012-11-30

Digital Computer Electronics Albert P. Malvino 1990-07-01

DIGITAL ELECTRONICS: PRINCIPLES AND INTEGRATED CIRCUITS Anil K. Maini 2007 Market_Desc: · Undergraduate and graduate level students of different universities Special Features: · Each chapter in the book, whether it is related to operational fundamentals or applications, is amply illustrated with diagrams and design examples· Each chapter concludes in a comprehensive self-evaluation exercise

comprising multiple-choice questions (with answers) and other type of objective type questions (with answers)· Unlike most of the books in print on the subject that are either too brief, lacking in illustrated examples and examination-oriented study material, or too voluminous, containing lot of redundant material, the book has been written keeping in mind the topics taught in the subject and covers in entirety what is required by undergraduate and graduate level students of engineering in electrical, electronics, instrumentation and control, computer science and information technology disciplines About The Book: Digital Electronics is a precise and yet complete book covering both Digital Electronics Fundamentals and Integrated Circuits. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. Each chapter in the book is amply illustrated with diagrams and design examples.

Each chapter concludes in a comprehensive self-evaluation exercise comprising multiple-choice and objective type questions (with answers). The book has up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, and microcontrollers. This valuable reference book provides in-depth information about multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits.

Optical Fiber Communications John M. Senior 2009 This text succeeds in giving a practical introduction to the fundamentals, problems and techniques of the design and utilisation of optical fiber systems. This edition retains all core features, while incorporating recent improvements and developments in the field.
DEMYTHSIFYING MYTHS Amit Bagaria 2018-05-17 The four and a half hours read changed my views about many things spoon-fed into our mind from childhood days. The book, as the name suggests,

demythsified many myths with concise but great insights about many leaders and important events in history about which we were taught half-truths to make someone look better. Not only it answers many inconvenient questions but will also make you ponder about many things like the problem with India's electoral system and the mysterious deaths in Indian political history. A must-read book to know about the real Indian politics, History books are full of lies. I being so much involved in reading about politics didn't know many things. The book is very well researched and all the important topics are covered. Great insights. Really loved it! Ankur Singh Digital Media Consultant, Columnist, Political Commentator This masterclass from Amit Bagaria provides a refreshing and new perspective on the most important and game changing events in India's past. It makes you stop, think about and question everything you've learned through the years. This book gives one insight into an alternate reality than the one we've been fed through our school history books, the media and politicians - from little known facts about Gandhi to the astonishing ineffectiveness of our parliamentary governance and electoral systems. It's definitely an eye opener and a must read for anyone that wishes to have a holistic picture of our nation and its real history. Ritansha Patni M.Sc., Warwick Business School, UK, Sr. Business Analyst, TARGET Head of Strategic Alliances & Partnerships (MEA), HEADOUT The absolute truth! In the case of most Indians, a lot of unquestionable information has been drilled into us and we have been forbidden to question the same. If ever, there was an alternate thought, it was hushed up saying "…but that is not what History says." However, this book has brought all those thoughts and questions to the surface. It makes me wonder if we are really the people who need to be told the contradictory point, even though our minds nudge us to believe otherwise. This book has dealt with various issues and has smacked the Indian political world

on its bottom. It helps lift the veil of questions that have been unanswered for so long. The author has done in-depth research on separating fact from fiction and that is commendable in the India of today. It is a very well written book and I would highly recommend it to anyone who is willing to take a breath of fresh air in this tamasha-heavy Indian policical circus. Archana Samtani Head of Business Development, SOCH **Digital Electronics** G. K. Kharate 2012-07-12 Digital Electronics is specially designed as a textbook for the undergraduate students of Electronics, Communciation, Computer Science, Electrical and Instrumentation Engineering for their introductory course on digital electronics or digital system and design.

SWITCHING THEORY AND LOGIC DESIGN A. ANAND KUMAR 2014-03-06 This comprehensive text on switching theory and logic design is designed for the undergraduate students of electronics and communication engineering, electrical and electronics engineering, electronics and instrumentation engineering, telecommunication engineering, computer science and engineering, and information technology. It will also be useful to AMIE, IETE and diploma students. Written in a student-friendly style, this book, now in its Second Edition, provides an in-depth knowledge of switching theory and the design techniques of digital circuits. Striking a balance between theory and practice, it covers topics ranging from number systems, binary codes, logic gates and Boolean algebra to minimization using K-maps and tabular method, design of combinational logic circuits, synchronous and asynchronous sequential circuits, and algorithmic state machines. The book discusses threshold gates and programmable logic devices (PLDs). In addition, it elaborates on flip-flops and shift registers. Each chapter includes several fully worked-out examples so that the students get a thorough grounding in related design concepts. Short questions with answers, review questions,

fill in the blanks, multiple choice questions and problems are provided at the end of each chapter. These help the students test their level of understanding of the subject and prepare for examinations confidently. NEW TO THIS EDITION • VHDL programs at the end of each chapter • Complete answers with figures • Several new problems with answers

Electronic Portable Instruments Halit Eren 2003-10-16 With the availability of advanced technologies, digital systems, and communications, portable instruments are rapidly evolving from simple, stand alone, low-accuracy measuring instruments to complex multifunctional, network integrated, high-performance digital devices with advanced interface capabilities. The relatively brief treatments these instruments receive in many books are no longer adequate. Designers, engineers and scientists need a comprehensive reference dedicated to electronic portable instruments that explains the state-of-art and future directions. Electronic Portable Instruments: Design and Applications introduces the basic measurement and instrumentation concepts, describes the operating principles, and discusses the typical specifications of three main groups of portable instruments: Portable and handheld instruments built for specific applications Intelligent sensor-based devices with few components and dedicated features, such as implantable medical devices Portable data systems containing fixed sensors and supporting mechanisms, but equipped with advanced communications capabilities, such as mobile weather stations The author discusses sensors suitable for these instruments, addresses how components are selected, and clearly shows that instrument design centers on trade-offs between costs, performance, size and weight, power consumption, interface options, ruggedness, and the ability to operate in a range of environments. A multitude of tables, formulae, and figures--many in full color--enhance the presentation.

Numerous examples of applications demonstrate the current diversity of these devices and point the way to future trends in development and applications.

Solid State Pulse Circuits David A. Bell 2006-08-24 This volume extensively covers semiconductor pulse circuits, explaining circuit operation and analysis and discusses in detail practical pulse circuit design methods.

A Textbook of Digital Electronics S.S. Bhatti 2011-11-01 Digital electronics is an interdisciplinary subject of electronics, electrical, information technology, computer science engineering and sciences domain. Digital Electronics has been written as per the syllabus of Digital Electronics, Digital Circuits and Logic Design of various universities like PTU, GNDU, PU, SLIET, DU, PEC, NITs and Thapar University. The book provides a comprehensive coverage of the funda-mental aspects of digital electronics. It not only explores the theoretical and practical aspects of digital circuitry, but also gives a glimpse of experience and classroom interaction of the authors. Besides, the step-by-step methods to solve the digital system problems, it also includes the shortcut methods to digital approach for job interviews and competitive examinations. This book is invaluable for BE, B.Tech., B.Sc., M.Sc. (Computer Science/IT), M.Sc. (Physics), M.Sc. (Electronics), BCA, MCA, PGDCA and PGDIT students.

EDA for IC Implementation, Circuit Design, and Process Technology Luciano Lavagno 2018-10-03 Presenting a comprehensive overview of the design automation algorithms, tools, and methodologies used to design integrated circuits, the Electronic Design Automation for Integrated Circuits Handbook is available in two volumes. The second volume, EDA for IC Implementation, Circuit Design, and Process Technology, thoroughly examines real-time logic to GDSII (a file format used to transfer data of semiconductor physical layout), analog/mixed signal design, physical verification, and

technology CAD (TCAD). Chapters contributed by leading experts authoritatively discuss design for manufacturability at the nanoscale, power supply network design and analysis, design modeling, and much more. Save on the complete set.

Basic Electronics BL Theraja 2007 Aims of the Book:The foremost and primary aim of the book is to meet the requirements of students pursuing following courses of study:1.Diploma in Electronics and Communication Engineering(ECE)-3-year course offered by various Indian and foreign polytechnics and technical institutes like city and guilds of London Institute(CGLI).2.B.E.(Elect.& Comm.)-4-year course offered by various Engineering Colleges.efforts have beenmade to cover the papers:Electronics-I & II and Pulse and Digital Circuits.3.B.Sc.(Elect.)-3-Year vocationalised course recently introduced by Approach.

Computer Vision: A Modern Approach David A. Forsyth 2015-01-23 Appropriate for upper-division undergraduate- and graduate-level courses in computer vision found in departments of Computer Science, Computer Engineering and Electrical Engineering. This textbook provides the most complete treatment of modern computer vision methods by two of the leading authorities in the field. This accessible presentation gives both a general view of the entire computer vision enterprise and also offers sufficient detail for students to be able to build useful applications. Students will learn techniques that have proven to be useful by first-hand experience and a wide range of mathematical methods.

Basic Electrical Engineering V. K. Mehta 2006-12 **Digital Integrated Electronics** Herbert Taub 1977 /Table of Contents 1 Electronic Devices2 Operational Amplifiers and Comparators3 Logic Circuits4 Resistor-Transistor Logic and Integrated- Injunction Logic5 Diode-Transistor Logic6 Transistor-Transistor Logic7 Emitter-Coupled Logic8 MOS Gates9 Flip-Flops10 Registers and Counters11 Arithmetic Operations12 Semiconductor For Memories13

Analog Switches14 Analog-to-Digital Conversions15 Timing Circuits
Numerical Methods for Engineers Steven C. Chapra 2006 The fifth edition of Numerical Methods for Engineers with Software and Programming Applications continues its tradition of excellence. The revision retains the successful pedagogy of the prior editions. Chapra and Canale's unique approach opens each part of the text with sections called Motivation, Mathematical Background, and Orientation, preparing the student for what is to come in a motivating and engaging manner. Each part closes with an Epilogue containing sections called Trade-Offs, Important Relationships and Formulas, and Advanced Methods and Additional References. Much more than a summary, the Epilogue deepens understanding of what has been learned and provides a peek into more advanced methods. Users will find use of software packages, specifically MATLAB and Excel with VBA. This includes material on developing MATLAB m-files and VBA macros. Also, many, many more challenging problems are included. The expanded breadth of engineering disciplines covered is especially evident in the problems, which now cover such areas as biotechnology and biomedical engineering
Digital Integrated Circuits Thomas A. DeMassa 1996 Contains the most extensive coverage of digital integrated circuits available in a single source. Provides complete qualitative descriptions of circuit operation followed by in-depth analytical analyses and spice simulations. The circuit families described in detail are transistor-transistor logic (TTL, STTL, and ASTTL), emitter-coupled logic (ECL), NMOS logic, CMOS logic, dynamic CMOS, BiCMOS structures and various GASFET technologies. In addition to detailed presentation of the basic inverter circuits for each digital logic family, complete details of other logic circuits for these families are presented.
Principles of Digital Electronics K. Meena 2009

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

A Textbook of Applied Electronics RS Sedha 2008-02 The present book has been throughly revised and lot of useful material has been added .saveral photographs of electronic devices and their specifications sheets have been included.This will help the students to have a better understanding of the electrinic devices and circuits from application point of view.the mistake and misprints,which has crept in,have been eliminated in this edition.

Logistics 4.0 Turan Paksoy 2020-12-18 Industrial

revolutions have impacted both, manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conduced significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to it is ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential. Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system's ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world.