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**KEY=KUMAR - RIVERS TRAVIS**

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## FUNDAMENTALS OF DIGITAL CIRCUITS

*PHI Learning Pvt. Ltd. The Fourth edition of this well-received text continues to provide coherent and comprehensive coverage of digital circuits. It is designed for the undergraduate students pursuing courses in areas of engineering disciplines such as Electrical and Electronics, Electronics and Communication, Electronics and Instrumentation, Telecommunications, Medical Electronics, Computer Science and Engineering, Electronics, and Computers and Information Technology. It is also useful as a text for MCA, M.Sc. (Electronics) and M.Sc. (Computer Science) students. Appropriate for self study, the book is useful even for AMIE and grad IETE students. Written in a student-friendly style, the book provides an excellent introduction to digital concepts and basic design techniques of digital circuits. It discusses Boolean algebra concepts and their application to digital circuitry, and elaborates on both combinational and sequential circuits. It provides numerous fully worked-out, laboratory tested examples to give students a solid grounding in the related design concepts. It includes a number of short questions with answers, review questions, fill in the blanks with answers, multiple choice questions with answers and exercise problems at the end of each chapter.*

## Foundations of Analog and Digital Electronic Circuits

*Elsevier 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.*

## PULSE AND DIGITAL CIRCUITS

*PHI Learning Pvt. Ltd. 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

## SIGNALS AND SYSTEMS

*PHI Learning Pvt. Ltd. This comprehensive text on control systems is designed for undergraduate students pursuing courses in electronics and communication engineering, electrical and electronics engineering, telecommunication engineering, electronics and instrumentation engineering, mechanical engineering, and biomedical engineering. Appropriate for self-study, the book will also be useful for AMIE and IETE students. Written in a student-friendly readable manner, the book explains the basic fundamentals and concepts of control systems in a clearly understandable form. It is a balanced survey of theory aimed to provide the students with an*

*in-depth insight into system behaviour and control of continuous-time control systems. All the solved and unsolved problems in this book are classroom tested, designed to illustrate the topics in a clear and thorough way. KEY FEATURES : Includes several fully worked-out examples to help students master the concepts involved. Provides short questions with answers at the end of each chapter to help students prepare for exams confidently. Offers fill in the blanks and objective type questions with answers at the end of each chapter to quiz students on key learning points. Gives chapter-end review questions and problems to assist students in reinforcing their knowledge.*

## SWITCHING THEORY AND LOGIC DESIGN

PHI Learning Pvt. Ltd. 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

## Digital Electronics

KHANNA PUBLISHING HOUSE The book covers the complete syllabus of subject as suggested by most of the universities in India. Proper balance between mathematical details and qualitative discussion. Subject matter in each chapter develops systematically from inceptions. Large number of carefully selected worked examples in sufficient details. Each chapter of the book is saturated with much needed test supported by neat and self-explanatory diagrams to make the subject self-speaking to a great extent. No other reference is required. Ideally suited for self-study.

## Basic Electronics

S. Chand Publishing For close to 20 years, *Basic Electronics: Devices and Circuits* has provided fundamental knowledge of the subject to all students. Each chapter focuses on the core concepts and clearly elucidate the fundamental principles, methods and circuits involved in electronics.

## Digital Electronics

## Principles, Devices and Applications

John Wiley & Sons 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.

## CONTROL SYSTEMS

PHI Learning Pvt. Ltd. This comprehensive text on control systems is designed for undergraduate students pursuing courses in electronics and communication engineering, electrical and electronics engineering, telecommunication engineering, electronics and instrumentation engineering, mechanical engineering, and biomedical engineering. Appropriate for self-study, the book will also be useful for AMIE and IETE students. Written in a student-friendly readable manner, the book, now in its Second Edition, explains the basic fundamentals and concepts of control systems in a clearly understandable form. It is a balanced survey of theory aimed to provide the students with an in-depth insight into system behaviour and control of continuous-time control systems. All the solved and unsolved problems in this book are classroom tested, designed to illustrate the topics in a clear and thorough way. **NEW TO THIS EDITION**• One new chapter on Digital control systems• Complete answers with figures• Root locus plots and Nyquist plots redrawn as per MATLAB output• MATLAB programs at the end of each chapter• Glossary at the end of chapters **KEY FEATURES**• Includes several

fully worked-out examples to help students master the concepts involved. • Provides short questions with answers at the end of each chapter to help students prepare for exams confidently. • Offers fill in the blanks and objective type questions with answers at the end of each chapter to quiz students on key learning points. • Gives chapter-end review questions and problems to assist students in reinforcing their knowledge. Solution Manual is available for adopting faculty.

## NETWORK ANALYSIS AND SYNTHESIS

PHI Learning Pvt. Ltd. This comprehensive text on Network Analysis and Synthesis is designed for undergraduate students of Electronics and Communication Engineering, Electrical and Electronics Engineering, Electronics and Instrumentation Engineering, Electronics and Computer Engineering and Biomedical Engineering. The book will also be useful to AMIE and IETE students. Written with student-centered, pedagogically driven approach, the text provides a self-centered introduction to the theory of network analysis and synthesis. Striking a balance between theory and practice, it covers topics ranging from circuit elements and Kirchhoff's laws, network theorems, loop and node analysis of dc and ac circuits, resonance, transients, coupled circuits, three-phase circuits, graph theory, Fourier and Laplace analysis, Filters, attenuators and equalizers to network synthesis. All the solved and unsolved problems in this book are designed to illustrate the topics in a clear way. **KEY FEATURES** □ Numerous worked-out examples in each chapter. □ Short questions with answers help students to prepare for examinations. □ Objective type questions, Fill in the blanks, Review questions and Unsolved problems at the end of each chapter to test the level of understanding of the subject. □ Additional examples are available at: [www.phindia.com/anand\\_kumar\\_network\\_analysis](http://www.phindia.com/anand_kumar_network_analysis)

## MECHANICAL WORKSHOP PRACTICE

PHI Learning Pvt. Ltd. Designed for the core course on Workshop Practice offered to all first-year diploma and degree level students of engineering, this book presents clear and concise explanation of the basic principles of manufacturing processes and equips students with overall knowledge of engineering materials, tools and equipment commonly used in the engineering field. The book describes the general principles of different workshop processes such as primary and secondary shaping processes, metal joining methods, surface finishing and heat treatment. The workshop processes covered also include the hand-working processes such as benchwork, fitting, arc welding, sheet metal work, carpentry, blacksmithy and foundry. It also explains the importance of safety measures to be followed in workshop processes and details the procedure of writing the records of the practices. The tools and equipment used in each hand-working process are enumerated before elaborating the process. Finally, the book discusses the machining processes such as turning operations, the cutting tools and the tools used for measuring and marking, and explains the working principle of Engine Lathe. An appendix for advanced level practice and assessment of work has also been included. **New to This Edition :** A separate chapter on Plumbing as per the revised syllabus of Indian Universities Method for sketching isometric single line piping layout Neatly-drawn illustrations and examples on Plumbing **Key Features :** Follows the International Standard Organization (ISO) code of practice for drawings. Includes a large number of illustrations to explain the methods and processes discussed. Contains chapter-end questions for viva voce test and exercises for making models.

## Asura : Tale of the Vanquished

### The Story of Ravana and His People

One Point Six Technology Pvt Ltd The epic tale of victory and defeat... The story of the Ramayana had been told innumerable times. The enthralling story of Rama, the incarnation of God, who slew Ravana, the evil demon of darkness, is known to every Indian. And in the pages of history, as always, it is the version told by the victors, that lives on. The voice of the vanquished remains lost in silence. But what if Ravana and his people had a different story to tell? The story of the Ravanayana had never been told. Asura is the epic tale of the vanquished Asura people, a story that has been cherished by the oppressed outcastes of India for 3000 years. Until now, no Asura has dared to tell the tale. But perhaps the time has come for the dead and the defeated to speak. "For thousands of years, I have been vilified and my death is celebrated year after year in every corner of India. Why? Was it because I challenged the Gods for the sake of my daughter? Was it because I freed a race from the yoke of caste-based Deva rule? You have heard the victor's tale, the Ramayana. Now hear the Ravanayana, for I am Ravana, the Asura, and my story is the tale of the vanquished." "I am a non-entity-invisible, powerless and negligible. No epics will ever be written about me. I have suffered both Ravana and Rama - the hero and the villain or the villain and the hero. When the stories of great men are told, my voice maybe too feeble to be heard. Yet, spare me a moment and hear my story, for I am Bhadra, the Asura, and my life is the tale of the loser." The ancient Asura empire lay shattered into many warring petty kingdoms reeling under the heel of the Devas. In desperation, the Asuras look up to a young saviour-Ravana. Believing that a better world awaits them under Ravana, common men like Bhadra decide to follow the young leader. With a will of iron and a fiery ambition to succeed, Ravana leads his people from victory to victory and carves out a vast empire from the Devas. But even when Ravana succeeds spectacularly, the poor Asuras find that nothing much has changed for them. It is when that Ravana, by one action, changes the history of the world.

## Machine Learning for Cloud Management

CRC Press Cloud computing offers subscription-based on-demand services, and it has emerged as the backbone of the computing industry. It has enabled us to share resources among multiple users through virtualization, which creates a virtual instance of a computer system running in an abstracted hardware layer. Unlike early distributed computing models, it offers virtually limitless computing resources through its large scale cloud data centers. It has gained wide popularity over the past few years, with an ever-increasing infrastructure, a number of users, and the amount of hosted data. The large and complex workloads hosted on these data

centers introduce many challenges, including resource utilization, power consumption, scalability, and operational cost. Therefore, an effective resource management scheme is essential to achieve operational efficiency with improved elasticity. Machine learning enabled solutions are the best fit to address these issues as they can analyze and learn from the data. Moreover, it brings automation to the solutions, which is an essential factor in dealing with large distributed systems in the cloud paradigm. *Machine Learning for Cloud Management* explores cloud resource management through predictive modelling and virtual machine placement. The predictive approaches are developed using regression-based time series analysis and neural network models. The neural network-based models are primarily trained using evolutionary algorithms, and efficient virtual machine placement schemes are developed using multi-objective genetic algorithms. **Key Features:** The first book to set out a range of machine learning methods for efficient resource management in a large distributed network of clouds. Predictive analytics is an integral part of efficient cloud resource management, and this book gives a future research direction to researchers in this domain. It is written by leading international researchers. The book is ideal for researchers who are working in the domain of cloud computing.

## Radio Frequency Integrated Circuits and Systems

Cambridge University Press Equips students with essential industry-relevant knowledge through in-depth explanations, practical applications, examples, and exercises.

## High-Speed Electronics and Optoelectronics Devices and Circuits

Cambridge University Press This authoritative account of electronic and optoelectronic devices covers the fundamental principles of operation, and, uniquely, their circuit applications too.

## Fundamentals of Wireless Communication

Cambridge University Press This textbook takes a unified view of the fundamentals of wireless communication and explains cutting-edge concepts in a simple and intuitive way. An abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers.

## Digital Design

### With an Introduction to the Verilog HDL

Pearson Academic For courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. *Digital Design*, fifth edition is a modern update of the classic authoritative text on digital design. This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

## Digital Principles Switching Theory

New Age International This comprehensive text fulfills the course requirement on the subject of Switching Theory and Digital Circuit Design for B. Tech. degree course in Electronics, Computer Science and Technology, Electronic & Communication, Electronic & Electrical, Electronic & Instrumentation, Electronic Instrumentation & Control, Instrumentation & Control Engineering of U.P. Technical University, Lucknow and other Technical Universities of India. It will also serve as a useful reference book for competitive examinations. All the topics are illustrated with clear diagram and simple language is used throughout the text to facilitate easy understanding of the concepts. There is no special pre-requisite before starting this book. Each chapter of the book starts with simple facts and concepts, and traverse through the examples and figures.

## Fundamentals of Information Technology

Excel Books India The third edition of *Fundamentals of Information Technology* is a 'must have' book not only for BCA and MBA students, but also for all those who want to strengthen their knowledge of computers. The additional chapter on MS Office is a comprehensive study on MS Word, MS Excel and other components of the package. This book is packed with expert advice from eminent IT professionals, in-depth analyses and practical examples. It presents a detailed functioning of hardware components besides covering the software concepts. A broad overview of Computer architecture, Data representation in the computer, Operating systems, Database management systems, Programming languages, etc., has also been included. An additional chapter on Mobile Computing and other state-of-the-art innovations in the IT world have been incorporated. Not only that, the latest Internet technologies have also been covered in detail. One should use this book to acquire computer literacy in terms of how data is represented in a computer, how hardware devices are integrated to get the desired results, how the computer can be networked for interchanging data and establishing communication. Each chapter is followed by a number of review questions.

# DIGITAL ELECTRONICS AND LOGIC DESIGN

PHI Learning Pvt. Ltd. Designed as a textbook for undergraduate students in Electrical Engineering, Electronics, Computer Science, and Information Technology, this up-to-date, well-organized study gives an exhaustive treatment of the basic principles of Digital Electronics and Logic Design. It aims at bridging the gap between these two subjects. The many years of teaching undergraduate and postgraduate students of engineering that Professor Somanathan Nair has done is reflected in the in-depth analysis and student-friendly approach of this book. Concepts are illustrated with the help of a large number of diagrams so that students can comprehend the subject with ease. Worked-out examples within the text illustrate the concepts discussed, and questions at the end of each chapter drill the students in self-study.

## Pulse and Digital Circuits

Pearson Education India Pulse and Digital Circuits is designed to cater to the needs of undergraduate students of electronics and communication engineering. Written in a lucid, student-friendly style, it covers key topics in the area of pulse and digital circuits. This is an introductory text that discusses the basic concepts involved in the design, operation and analysis of waveshaping circuits. The book includes a preliminary chapter that reviews the concepts needed to understand the subject matter. Each concept in the book is accompanied by self-explanatory circuit diagrams. Interspersed with numerous solved problems, the text presents detailed analysis of key concepts. Multivibrators and sweep generators are covered in great detail in the book.

## The Design of CMOS Radio-Frequency Integrated Circuits

Cambridge University Press This book, first published in 2004, is an expanded and revised edition of Tom Lee's acclaimed RFIC text.

# DIGITAL ELECTRONICS: PRINCIPLES AND INTEGRATED CIRCUITS

John Wiley & Sons 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.

## Principles of Communication Engineering

CRC Press This is the book, in which the subject matter is dealt from elementary to the advance level in a unique manner. Three outstanding features can be claimed for the book viz. (i) style: the student, while going through the pages would feel as if he is attending a class room. (ii) language: that an average student can follow and (iii) approach: it takes the student from "known to unknown" and "simple to complex." The book is reader friendly, thought provoking and stimulating. It helps in clearing cobwebs of the mind. The style is lucid and un-adulterated. Unnecessary mathematics has been avoided. Note: T&F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

## Signals & Systems

Pearson Educación This authoritative book, highly regarded for its intellectual quality and contributions provides a solid foundation and life-long reference for anyone studying the most important methods of modern signal and system analysis. The major changes of the revision are reorganization of chapter material and the addition of a much wider range of difficulties.

## Modern Digital Electronics

McGraw-Hill Science/Engineering/Math 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.

## Digital Electronics

Prentice Hall This new edition of *Digital Electronics* is up-to-date with current devices and includes many practical exercises whilst continuing to provide a comprehensive introduction to the principles of modern digital electronics.

## Digital Circuits And Design, 3E

*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*

## Digital Electronics

OUP India *Digital Electronics* is specially designed as a textbook for the undergraduate students of Electronics, Communication, Computer Science, Electrical and Instrumentation Engineering for their introductory course on digital electronics or digital system and design.

## India and Communism

Leftword Books "In the early 1950s, Ambedkar started work on a book he wanted to call *India and communism*. The book was never finished. The present volume assembles what survives of his book, along with a section of another unfinished book, *Can I be a Hindu?*"--Page 4 of cover.

## Artificial Intelligence

## Fundamentals and Applications

CRC Press This comprehensive reference text discusses the fundamental concepts of artificial intelligence and its applications in a single volume. *Artificial Intelligence: Fundamentals and Applications* presents a detailed discussion of basic aspects and ethics in the field of artificial intelligence and its applications in areas, including electronic devices and systems, consumer electronics, automobile engineering, manufacturing, robotics and automation, agriculture, banking, and predictive analysis. Aimed at senior undergraduate and graduate students in the field of electrical engineering, electronics engineering, manufacturing engineering, pharmacy, and healthcare, this text: Discusses advances in artificial intelligence and its applications. Presents the predictive analysis and data analysis using artificial intelligence. Covers the algorithms and pseudo-codes for different domains. Discusses the latest development of artificial intelligence in the field of practical speech recognition, machine translation, autonomous vehicles, and household robotics. Covers the applications of artificial intelligence in fields, including pharmacy and healthcare, electronic devices and systems, manufacturing, consumer electronics, and robotics.

## Digital Design

Pearson Educación For sophomore courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. & *Digital Design*, fourth edition is a modern update of the classic authoritative text on digital design.& This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

## Optical Biosensors

## Today and Tomorrow

Elsevier *Optical Biosensors, 2ed* describes the principles of successful systems, examples of applications, and evaluates the advantages and deficiencies of each. It also addresses future developments on two levels: possible improvements in existing systems and emerging technologies that could provide new capabilities in the future. The book is formatted for ease of use and is therefore suitable for scientists and engineers, students and researcher at all levels in the field. \* Comprehensive analysis and review of the underlying principles by optical biosensors \* Updates and informs on all the latest developments and hot topic areas \* Evaluates current methods showing the advantages and disadvantages of various systems involved

## Digital Signal Processing

## Fundamentals and Applications

Academic Press *Digital Signal Processing, Second Edition* enables electrical engineers and technicians in the fields of biomedical, computer, and electronics engineering to master the essential fundamentals of DSP principles and practice. Many instructive worked examples are used to illustrate the material, and the use of mathematics is minimized for easier grasp of concepts. As such, this title

is also useful to undergraduates in electrical engineering, and as a reference for science students and practicing engineers. The book goes beyond DSP theory, to show implementation of algorithms in hardware and software. Additional topics covered include adaptive filtering with noise reduction and echo cancellations, speech compression, signal sampling, digital filter realizations, filter design, multimedia applications, over-sampling, etc. More advanced topics are also covered, such as adaptive filters, speech compression such as PCM, u-law, ADPCM, and multi-rate DSP and over-sampling ADC. New to this edition: MATLAB projects dealing with practical applications added throughout the book New chapter (chapter 13) covering sub-band coding and wavelet transforms, methods that have become popular in the DSP field New applications included in many chapters, including applications of DFT to seismic signals, electrocardiography data, and vibration signals All real-time C programs revised for the TMS320C6713 DSK Covers DSP principles with emphasis on communications and control applications Chapter objectives, worked examples, and end-of-chapter exercises aid the reader in grasping key concepts and solving related problems Website with MATLAB programs for simulation and C programs for real-time DSP

## Digital Principles and Applications

### Digital Electronics

### An Introduction to Theory and Practice

Prentice Hall

### Logic and Critical Reasoning

### Foundations of Analog and Digital Electronic Circuits

Morgan Kaufmann Unlike books currently on the market, this volume 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. Using the concept of abstraction, the authors attempt to form a bridge between the world of physics and the world of large computer systems.

### A tale of two Souls

Notion Press I thought it was all over until I met her again. I was hurting myself to forget her, and yet I kept falling in love. I saw her, smiling and happy with him. As the tears in my eyes pleaded for freedom, I waited, for her, to give me that one smile... Sometimes life gives you a thousand reasons to fall in love, and just one reason to fall apart. I had stepped on it, and, I had to wait for three years to rediscover the soul within me. But, what happened to her in these three years? Does she love me still? This intense love story will make your heart fall in love over and over again.

### A Textbook of Digital Electronics

I K International Pvt Limited 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 fundamental 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.