

Fundamentals Of Digital Circuits Anand Kumar Solution Manual

Pulse and Digital Circuits
FUNDAMENTALS OF DIGITAL CIRCUITS, Fourth Edition
PULSE AND DIGITAL CIRCUITS, Second Edition
Digital Electronics □ GATE, PSUS AND
ES Examination
DIGITAL ELECTRONICS
DIGITAL ELECTRONICS PRACTICE USING INTEGRATED CIRCUITS
MATLAB ESSENTIALS FOR PROBLEM SOLVING
Digital
Electronics Practice Using Integrated Circuits
ELEMENTS OF ELECTRICAL ENGINEERING, FIFTH EDITION
Digital Electronics Practice Using Integrated Circuits
Modern
Digital Electronics
SWITCHING THEORY AND LOGIC DESIGN, Third Edition
Advanced Ultra Low-Power Semiconductor Devices
Indian Book Industry
Digital Circuits &
Design
Compact Models and Performance Investigations for Subthreshold Interconnects
Digital Electronics: A Primer - Introductory Logic Circuit Design
Debug Automation from
Pre-Silicon to Post-Silicon
China 1991 International Conference on Circuits and Systems, 16-17 June, 1991, Shenzhen University, Shenzhen, China
Digital Electronic Circuits Anand
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P. Jain KUMAR, A. ANAND Shubham Tayal D.P Kothari Rohit Dhiman Mark S Nixon Mehdi Dehbashi Shuqin Lou

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Automation from Pre-Silicon to Post-Silicon China 1991 International Conference on Circuits and Systems, 16-17 June, 1991, Shenzhen University, Shenzhen, China Digital

Electronic Circuits *Anand Kumar KUMAR, A. ANAND KUMAR, A. ANAND Satish K Karna KUMAR, A. ANAND JAIN R P KHANNA, MANOJ Rajendra Prasad Jain LOUIS, M. MARIA R. P. Jain R. P. Jain KUMAR, A. ANAND Shubham Tayal D.P Kothari Rohit Dhiman Mark S Nixon Mehdi Dehbashi Shuqin Lou*

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 as the book requires only an elementary knowledge of electronics to understand most of the topics it can also serve as a textbook for the students of polytechnics b sc electronics and b sc computer science new to this edition now based on the readers demand this new edition incorporates verilog programs in addition to vhdl programs at the end of each chapter

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

test prep for digital electronics gate psus and es examination

this text provides coherent and comprehensive coverage of digital electronics it is designed as one semester course for the undergraduate and postgraduate students pursuing courses in areas of engineering disciplines and science it is also useful as a text for polytechnic and mca 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 objective type questions with answers and exercise problems at the end of each chapter target audience b sc electronic science b e b tech electrical electronics computer science and engineering information technology etc mca polytechnic m sc physics m sc electronic science

this textbook introduces powerful computational software tool called matlab the main objective of this book is to expose the readers to matlab features that integrate computation visualization and programming in an easy to use environment this book covers built in functions of matlab commands and their applications in topics of mathematical physics and engineering mathematics the book is written in a very simple language and chapters are arranged sequentially each topic covered in this book has its corresponding theoretical explanation prior to its matlab execution the authors explain concepts with the help of screenshots of the matlab software and programming codes with their outputs this approach not only creates a direct link between the book and the matlab software but also imbibes the feeling of actual interaction with matlab software a sufficient number of examples based on

matlab programming codes have been worked out so that students can grasp the concepts the ideas and the results in an easy way at the end of each chapter students will have a chance to answer several application based questions in exercise all these features make this book to be used as a textbook for theoretical learning as well as for laboratory course the book is suitable for the undergraduate and postgraduate students of mathematics physics instrumentation and electronics the undergraduate students of engineering will also find this book useful

there has been overwhelming response from the readers of this text based on their feedback and suggestions this book has been enlarged and thoroughly revised in its fifth edition besides updating the sixteen chapters of the previous edition it now incorporates ten new chapters dealing with synchronous machines single three phase motors ac commutator motors and stepper motors the present text written in a lucid style is the culmination of more than four decades of the author s long experience in teaching of electrical engineering subjects especially electrical machines at undergraduate and postgraduate levels key features easy to follow understand and implement includes about 440 worked out examples contains 721 mcqs with answers to help students measure their understanding and analysing skills and evaluate their knowledge offers about 515 chapter end exercises with answers to build problem solving skills and gain hands on experience and self confidence includes many real life examples to enable students to analyse and implement theoretical concepts in real life situations difficult concepts like commutation explained in great detail so as to make students grasp concept with clear understanding the book is primarily designed for undergraduate and postgraduate students of electrical and electronics engineering besides the students of all other branches of engineering will find this text useful for their course study

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

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 computers engineering electronics and instrumentation engineering telecommunication engineering computer science and engineering and information technology it will also be useful to m sc electronics m sc computers amie iete and diploma students written in a student friendly style this book now in its third 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 verilog programs at the end of each chapter

advanced ultra low power semiconductor devices written and edited by a team of experts in the field this important new volume broadly covers the design and applications of metal oxide semiconductor field effect transistors this outstanding new volume offers a comprehensive overview of cutting edge semiconductor components tailored for ultra low power applications these components pivotal to the foundation of electronic devices play a central role in shaping the landscape of electronics with a focus on emerging low power electronic devices and their application across domains like wireless communication biosensing and circuits this book presents an invaluable resource for understanding this dynamic field bringing together experts and researchers from various facets of the vlsi domain the book addresses the challenges posed by advanced low power devices this collaborative effort aims to propel engineering innovations and refine the practical implementation of these technologies specific chapters delve into intricate topics such as tunnel fet negative

capacitance fet device circuits and advanced fets tailored for diverse circuit applications beyond device centric discussions the book delves into the design intricacies of low power memory systems the fascinating realm of neuromorphic computing and the pivotal issue of thermal reliability authors provide a robust foundation in device physics and circuitry while also exploring novel materials and architectures like transistors built on pioneering channel dielectric materials this exploration is driven by the need to achieve both minimal power consumption and ultra fast switching speeds meeting the relentless demands of the semiconductor industry the book's scope encompasses concepts like mosfet finfet gaa mosfet the 5 nm and 7 nm technology nodes ncfet ferroelectric materials subthreshold swing high k materials as well as advanced and emerging materials pivotal for the semiconductor industry's future

this student friendly practical and example driven book gives students a solid foundation in the basics of digital circuits and design the fundamental concepts of digital electronics such as analog digital signals and waveforms digital information and digital integrated circuits are discussed in detail using relevant pedagogy

the book provides a detailed analysis of issues related to sub threshold interconnect performance from the perspective of analytical approach and design techniques particular emphasis is laid on the performance analysis of coupling noise and variability issues in sub threshold domain to develop efficient compact models the proposed analytical approach gives physical insight of the parameters affecting the transient behavior of coupled interconnects remedial design techniques are also suggested to mitigate the effect of coupling noise the effects of wire width spacing between the wires wire length are thoroughly investigated in addition the effect of parameters like driver strength on peak coupling noise has also been analyzed process voltage and temperature variations are prominent factors affecting sub threshold design and have also been investigated the process variability analysis has been carried out using parametric analysis process corner analysis and monte carlo technique the book also provides a qualitative summary of the work reported in the literature by various researchers in the design of digital sub threshold circuits this book should be of interest for researchers and graduate students with deeper insights into sub threshold interconnect models in particular in this sense this book will best fit as a text book and or a reference book for students who are initiated in the area of research and advanced courses

in nanotechnology interconnect design and modeling

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

this book describes automated debugging approaches for the bugs and the faults which appear in different abstraction levels of a hardware system the authors employ a transaction based debug approach to systems at the transaction level asserting the correct relation of transactions the automated debug approach for design bugs finds the potential fault candidates at rtl and gate level of a circuit debug techniques for logic bugs and synchronization bugs are demonstrated enabling readers to localize the most difficult bugs debug automation for electrical faults delay faults finds the potentially failing speedpaths in a circuit at gate level the various debug approaches described achieve high diagnosis accuracy and reduce the debugging time shortening the ic development cycle and increasing the productivity of designers describes a unified framework for debug automation used at both pre silicon and post silicon stages provides approaches for debug automation of a hardware system at different levels of abstraction i e chip gate level rtl and transaction level includes techniques for debug automation of design bugs and electrical faults as well as an infrastructure to debug noc based multiprocessor socs

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

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