

Fundamentals of Digital Circuits

(A. Anand Kumar)





Fundamentals Of Digital Circuits By Anand Kumar

ALAM, MANSAF, ALAM, BASHIR

Fundamentals Of Digital Circuits By Anand Kumar:

FUNDAMENTALS OF DIGITAL CIRCUITS, Fourth Edition KUMAR, A. ANAND,2016-07-18 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

Pulse and Digital Circuits Rao K Venkata,2010 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

Digital Electronics and System Abhishek Bhatt, 2025-06-01

ELEMENTS OF ELECTRICAL ENGINEERING M. MARIA LOUIS,2014-01-01 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 MECHATRONICS M. D. SINGH, J. G. branches of engineering will find this text useful for their course study JOSHI,2006-10-07 Mechatronics is today fast developing as an interdisciplinary branch of engineering This book offers a comprehensive coverage of the design and application of mechatronic systems It discusses in detail the construction operation features and applications of various components of mechatronic systems. The text profusely illustrated with diagrams emphasizes the readers multidisciplinary skills and ability to design and maintain different mechatronic systems Key Features Motivational assignments given at the end of each chapter and the Case Studies provided at the end of the book direct the readers to applications of mechatronics concepts in the real world problems encountered in engineering practice Separate chapters are devoted to the advanced topics of Robotics and Microelectromechanical Systems MEMS The text is supported by a fair number of photographs of mechatronic systems and their components This student friendly text is primarily intended for the students of undergraduate and diploma courses in mechanical electronics industrial and mechatronics engineering It will also be of immense use to practising engineers DIGITAL ELECTRONICS KUMAR, A. ANAND, 2025-04-14 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 Modelling and Simulation in Science, Technology and Engineering Mathematics Surajit Chattopadhyay, Tamal Roy, Samarjit Sengupta, Christian Berger-Vachon, 2018-10-24 This volume contains the peer reviewed proceedings of the International Conference on Modelling and Simulation MS 17 held in Kolkata India 4th 5th November 2017 organized by the Association for the Advancement of Modelling and Simulation Techniques in Enterprises AMSE France in association with the Institution of Engineering Technology IET UK Kolkata Network The contributions contained here showcase some recent advances in

modelling and simulation across various aspects of science and technology This book brings together articles describing applications of modelling and simulation techniques in fields as diverse as physics mathematics electrical engineering industrial electronics control automation power systems energy and robotics It includes a special section on mechanical fuzzy optical and opto electronic control of oscillations It provides a snapshot of the state of the art in modelling and simulation methods and their applications and will be of interest to researchers and engineering professionals from industry academia and research organizations DIGITAL SIGNAL PROCESSING, Second Edition KUMAR, A. ANAND, 2014-12-15 The second edition of this well received text continues to provide coherent and comprehensive coverage of digital signal processing It is designed for undergraduate students of Electronics and Communication engineering Telecommunication engineering Electronics and Instrumentation engineering Electrical and Electronics engineering Electronics and Computers engineering Biomedical engineering and Medical Electronics engineering This book will also be useful to AMIE and IETE students Written with student centred pedagogically driven approach the text provides a self contained introduction to the theory of digital signal processing It covers topics ranging from basic discrete time signals and systems discrete convolution and correlation Z transform and its applications realization of discrete time systems discrete time Fourier transform discrete Fourier series discrete Fourier transform to fast Fourier transform In addition to this various design techniques for design of IIR and FIR filters are discussed Multi rate digital signal processing and introduction to digital signal processors and finite word length effects on digital filters are also covered All the solved and unsolved problems in this book are designed to illustrate the topics in a clear way MATLAB programs and the results for typical examples are also included at the end of chapters for the benefit of the students New to This Edition A chapter on Finite Word Length Effects in Digital Filters Key Features Numerous worked out examples in each chapter Short questions with answers help students to prepare for examinations and interviews Fill in the blanks review questions objective type questions and unsolved problems at the end of each chapter to test the level of understanding of the subject SWITCHING THEORY AND LOGIC DESIGN, Third Edition KUMAR, A. ANAND, 2016-07-18 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 DIGITAL LOGIC DESIGN ALAM, MANSAF, ALAM, BASHIR, 2015-10-15 This textbook covers latest topics in the field of digital logic design along with tools to design the digital logic 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 and Computer Science and Engineering It is also useful as a text for MCA M Sc Electronics and M Sc Computer Science students The contents of this book have been organized in a systematic manner so as to inculcate sound knowledge and concepts amongst its readers It covers basic concepts in combinational and sequential circuit design such as digital electronics digital signal processing number system data and information representation and computer arithmetic Besides this advanced topics in digital logic design such as various types of counter design register design ALU design threshold circuit and digital computer design are also discussed in the book Key features Question Bank containing numerous multiple choice questions with their answers Short answer questions long answer questions and multiple choice questions at the end of each chapter Extensive use of graphs and diagrams for better understanding of the subject

NETWORK ANALYSIS AND SYNTHESIS KUMAR, A. ANAND, 2019-01-01 This comprehensive test 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 **SIGNALS AND SYSTEMS** A. ANAND KUMAR, 2012-02-04 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 guiz students on key learning points Gives chapter end review questions and problems to assist students in reinforcing their knowledge SIGNALS AND SYSTEMS, Third Edition KUMAR, A. ANAND, 2013-09-13 The Third Edition of this well received text continues to provide coherent and comprehensive coverage of signals and systems It is designed for undergraduate students of electronics and communication engineering telecommunication engineering electronics and instrumentation engineering and electrical and electronics engineering The book will also be useful to AMIE and IETE students Written with student centred pedagogically driven approach the text provides a self contained introduction to the theory of signals and systems This book looks at the concepts of systems and also examines signals and the way that signals interact with physical systems It covers topics ranging from basic signals and systems to signal analysis properties of continuous time Fourier transforms including Fourier transforms of standard signals signal transmission through linear systems relation between convolution and correlation of signals sampling theorems and techniques and transform analysis of LTI systems All the solved and unsolved problems in this book are designed to illustrate the topics in a clear way New to This Edition MATLAB Programs at the end of each chapter Key Features Numerous worked out examples in each chapter Short questions with answers help students to prepare for examinations Objective type questions and unsolved problems at the end of each chapter to test the level of understanding of the subject Secrets of Success for GATE 2026 (Edition the full book Language English The description of the Full Book is as follows Hey there future engineer Secrets of Success Ultimate Edition isn t just another study guide It s a map to navigate the labyrinth of competitive exams It s a survival kit for the rollercoaster ride of preparation And it s a peek into the mind of someone who s been there done that This is the Ultimate Edition of the final book from the GATE ESE MADE EASY book series that has sold over 2 37 000 copies with 1200 Worldwide Reviews till date I m Nikhil and I ve walked this path I ve cracked GATE four times aced my M Tech at NIT Tiruchirappalli also known as NIT Trichy and even landed a coveted job at Mercedes Benz Now I m sharing my secrets with you What's Inside This book isn't about just good preparation It's about smart preparation It's about understanding the exam s inner workings crafting a realistic strategy and conquering the mental hurdles that come with it We ll delve into Exam Analysis Cracking the code of GATE ESE ISRO BARC SSC JE and PSUs Understanding their patterns syllabus cut off scores

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ELECTRONICS ENGINEERING MATERIALS BANERJEE, G.K., 2014-11-14 The book has been written in a lucid and systematic manner with necessary mathematical derivations illustrations examples and practise exercises providing detailed description of the materials used in electrical and electronics engineering and their applications Beginning with the atomic structure of the materials the book deals with the behaviour of dielectrics and their properties under the influence of DC and AC fields It covers the magnetic properties of materials including soft and hard magnetic materials and their applications The text discusses fabrication techniques and the basic physics involved in the operation of the semiconductors junction transistors and rectifiers It includes detailed description of optical properties of the materials optical materials photovoltaic materials and the materials used in lasers and optical fibres It also incorporates the latest information on the materials used for the direct energy conversion and fuel cell technologies. This book is primarily intended for undergraduate students of electrical engineering and electrical and electronics engineering Key features Contains sufficient numbers of solved numerical examples Includes a set of review questions and a list of references at the end of each chapter Provides a set of numerical problems in some of the chapters wherever required Contains more than 150 diagrammatic illustrations for easy understanding of the concepts **Encyclopedia of Electronic Components Volume 2** Charles Platt, Fredrik Jansson, 2014-11-13 Want to know how to use an electronic component This second book of a three volume set includes key information on electronics parts for your projects complete with photographs schematics and diagrams You ll learn what each one does how it works why it s useful and what variants exist No matter how much you know about electronics you ll find fascinating details you we never come across before Perfect for teachers hobbyists engineers and students of all ages this reference puts reliable fact checked information right at your fingertips whether you re refreshing your memory or exploring a component for the first time Beginners will quickly grasp important concepts and more experienced users will find the specific details their projects require Volume 2 covers signal processing including LEDs LCDs audio thyristors digital logic and amplification Unique the first and only encyclopedia set on electronic components distilled into three separate volumes Incredibly detailed includes information distilled from hundreds of sources Easy to browse parts are clearly organized by component type Authoritative fact checked by expert advisors to ensure that the information is both current and accurate Reliable a more consistent source of information than online sources product datasheets and manufacturer s tutorials Instructive each component description provides details about substitutions common problems and workarounds Comprehensive Volume 1 covers power electromagnetism and discrete semiconductors Volume 2 includes LEDs LCDs audio thyristors digital logic and amplification Volume 3 covers a range of sensing devices Encyclopedia of Electronic Components Volume 3 Charles Platt, 2016-04-06 Want to know how to use an electronic component This third book of a three volume set includes key information on electronics parts for your projects complete with photographs schematics and diagrams You ll learn what each one does how it works why it s useful and what variants exist No matter how much you know

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