

# Fundamentals of Digital Circuits

A. Anand Kumar

The second edition of this well-received text continues to provide coherent and comprehensive coverage of digital circuits. It is designed for use by 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, 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 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. 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 review questions and classroom tested 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 students of polytechnics, B.Sc. (Electronics) and B.Sc. (Computer Science).

## NEW TO THIS EDITION

- Includes four new chapters—Programmable Logic Devices, Threshold Logic, Sequential Circuits-II, and Algorithmic State Machines.
- Provides short questions with answers, fill in the blanks with answers, and multiple choice questions with answers at the end of each chapter.
- Presents several new illustrations, examples and exercises.

## THE AUTHOR

A. ANAND KUMAR is Director, Sasi Institute of Technology and Engineering, Tadepalligudem, West Godavari District, Andhra Pradesh (AP). Earlier from 2000 to 2006, he served as Principal, Sir C.R. Reddy College of Engineering, Eluru (AP), and as Professor, SDM College of Engineering and Technology, Dharwad, Karnataka from 1983 to 2000. He has more than 34 years of teaching experience.

## Other books by the same author

*Pulse and Digital Circuits, 2nd ed.*

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*Switching Theory and Logic Design*

# Fundamentals Of Digital Circuits 2nd Edition Kumar

**MANOJ KHANNA, GEETA BHATT, PAWAN  
KUMAR**



## **Fundamentals Of Digital Circuits 2nd Edition 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, Second Edition** KUMAR, A. ANAND, 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 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

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

**ELECTRICAL AND 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've 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.

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 **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 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 branches of engineering will find this text useful for their course study

**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 quiz students on key learning points Gives chapter end review questions and problems to assist students in reinforcing their knowledge

*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 about electronics you ll find fascinating details you ve 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 3 covers components for sensing the physical world including light sound heat motion ambient and electrical sensors 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 semi conductors Volume 2 includes integrated circuits and light and sound sources Volume 3 covers a range of sensing devices

*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

**MATLAB ESSENTIALS FOR PROBLEM SOLVING** MANOJ KHANNA, GEETA BHATT, PAWAN KUMAR, 2016-06-14 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 **Digital**

**Electronics and System** Abhishek Bhatt,2025-06-01 **Энциклопедия электронных компонентов. Том 3.** Платт Чарльз,Фредрик Янссон,2017 **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](http://www.phindia.com) [anand\\_kumar\\_network\\_analysis](http://anand_kumar_network_analysis)

**Энциклопедия электронных компонентов. Том 2.** Платт Чарльз,2017-02-17 **ELECTRONICS LAB MANUAL (VOLUME 2)** NAVAS, K. A.,2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories This book covers 118 experiments for linear analog integrated circuits lab communication engineering lab power electronics lab microwave lab and optical communication lab The experiments described in this book enable the students to learn Various analog integrated circuits



and their functions Analog and digital communication techniques Power electronics circuits and their functions Microwave equipment and components Optical communication devices This book is intended for the B Tech students of Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics It is designed not only for engineering students but can also be used by BSc MSc Physics and Diploma students

**KEY FEATURES** Contains aim components and equipment required theory circuit diagram pin outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices

**TARGET AUDIENCE** B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering

**MECHATRONICS** M. D. SINGH, J. G. 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

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**Basic Electrical, electronics, & Computer Communication Eng'ng' 2003 Ed. 1999 Edition ,**

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