

Read Online Digital Circuit And
Design Salivahanan

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**Digital Circuit And
Design Salivahanan
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Designed as a text for the students
of various engineering streams

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such as electronics/electrical engineering, electronics and communication engineering, computer science and engineering, IT, instrumentation and control and mechanical engineering, this well-written text provides an introduction

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to electronic devices and circuits. It introduces to the readers electronic circuit analysis and design techniques with emphasis on the operation and use of semiconductor devices. It covers principles of operation, the characteristics and

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applications of fundamental electronic devices such as p-n junction diodes, bipolar junction transistors (BJTs), and field effect transistors (FETs), and special purpose diodes and transistors. In its second edition, the book

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includes a new chapter on “special purpose devices”. What distinguishes this text is that it explains the concepts and applications of the subject in such a way that even an average student will be able to understand working

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of electronic devices, analyze, design and simulate electronic circuits. This comprehensive book provides:

- A large number of solved examples.
- Summary highlighting the important points in the chapter.
- A number of Review

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Questions at the end of each chapter. • A fairly large number of unsolved problems with answers. This comprehensive text on switching theory and logic design is designed for the undergraduate students of electronics and

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communication engineering, electrical and electronics engineering, electronics and instrumentation engineering, telecommunication engineering, computer science and engineering, and information technology. It will

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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

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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,

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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

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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

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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

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answers with figures • Several new problems with answers

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

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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

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variety of digital applications.

Electronic Circuit Analysis and
Design

Compr. Linear and Digital
Integrated Circuits Design*

PSpice for Circuit Theory and
Electronic Devices

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Digital Electronics

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

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of engineering disciplines such as Electrical and Electronics, Electronics and Communication, Electronics and Instrumentation, Telecommunications, Medical Electronics, Computer Science and Engineering, Electronics, and

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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

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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

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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

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questions, fill in the blanks with answers, multiple choice questions with answers and exercise problems at the end of each chapter.

This second edition of Data Structures Using C has been developed to provide a

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comprehensive and consistent coverage of both the abstract concepts of data structures as well as the implementation of these concepts using C language. It begins with a thorough overview of the concepts of C programming

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followed by introduction of different data structures and methods to analyse the complexity of different algorithms. It then connects these concepts and applies them to the study of various data structures such as arrays, strings, linked lists,

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stacks, queues, trees, heaps, and graphs. The book utilizes a systematic approach wherein the design of each of the data structures is followed by algorithms of different operations that can be performed on them, and the analysis

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of these algorithms in terms of their running times. Each chapter includes a variety of end-chapter exercises in the form of MCQs with answers, review questions, and programming exercises to help readers test their knowledge.

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Learn the hand-crafted notes on C programming Key Features Strengthens the foundations, as a detailed explanation of programming language concepts are given Lucid explanation of the concept Well thought-out, fully

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working programming examples

End-of-chapter exercises that would

help you practice the skills learned

in the chapter Hand-crafted

"KanNotes" at the end of the each

chapter that would help the reader

remember and revise the concepts

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covered in the chapter Focuses on how to think logically to solve a problem Description The new edition of this classic book has been thoroughly revamped, but remains faithful to the principles that have established it as a favourite amongst

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students, teachers and software professionals round the world.

"Simplicity"- that has been the hallmark of this book in not only its previous sixteen English editions, but also in the Hindi, Gujrati, Japanese, Korean, Chinese and US

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editions. This book doesn't assume any programming background. It begins with the basics and steadily builds the pace so that the reader finds it easy to handle advanced topics towards the end of the book. What will you learn C Instructions

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*Decision Control Instruction, Loop
Control Instruction, Case Control
Instruction Functions, Pointers,
Recursion Data Types, The C
Preprocessor Arrays, Strings
Structures, Console Input/Output,
File Input/Output Who this book is*

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for Students, Programmers, researchers, and software developers who wish to learn the basics of C++ programming language. Table of Contents

1. Getting Started
2. C Instructions
3. Decision Control Instruction
- 4.

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*More Complex Decision Making 5.
Loop Control Instruction 6. More
Complex Repetitions 7. Case
Control Instruction 8. Functions 9.
Pointers 10. Recursion 11. Data
Types Revisited 12. The C
Preprocessor 13. Arrays 14.*

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*Multidimensional Arrays 15. Strings
16. Handling Multiple Strings 17.
Structures 18. Console Input/Output
19. File Input/Output 20. More
Issues In Input/Output 21.
Operations On Bits 22.
Miscellaneous Features 23.*

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his books and Quest Video Courses on C, C++, Java, Python, Data Structures, .NET, IoT, etc.

Yashavant Kanetkar has created, molded and groomed lacs of IT careers in the last three decades.

Yashavant's books and Quest videos

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have made a significant contribution in creating top-notch IT manpower in India and abroad. Yashavant's books are globally recognized and millions of students/professionals have benefitted from them.

Yashavant's books have been

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translated into Hindi, Gujarati, Japanese, Korean and Chinese languages. Many of his books are published in India, USA, Japan, Singapore, Korea and China.

Yashavant is a much sought after speaker in the IT field and has

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conducted seminars/workshops at TedEx, IITs, IIITs, NITs and global software companies. Yashavant has been honored with the prestigious "Distinguished Alumnus Award" by IIT Kanpur for his entrepreneurial, professional and academic

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excellence. This award was given to top 50 alumni of IIT Kanpur who have made a significant contribution towards their profession and betterment of society in the last 50 years. His Linkedin profile: [linkedin.com/in/yashavant-kanetkar-9775255](https://www.linkedin.com/in/yashavant-kanetkar-9775255)

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Digital Circuits And Design, 3E

*FUNDAMENTALS OF DIGITAL
CIRCUITS*

*Principles, Devices and
Applications*

Digital Principles and Applications

Digital Design and Computer

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Organization introduces digital design as it applies to the creation of computer systems. It summarizes the tools of logic design and their mathematical basis, along with in depth coverage of combinational and sequential circuits. The book

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includes an accompanying CD that includes the majority of circuits highlighted in the text, delivering you hands-on experience in the simulation and observation of circuit functionality. These circuits were designed and tested with a user-

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friendly Electronics Workbench package (Multisim Textbook Edition) that enables your progression from truth tables onward to more complex designs. This volume differs from traditional digital design texts by providing a complete design of

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an AC-based CPU, allowing you to apply digital design directly to computer architecture. The book makes minimal reference to electrical properties and is vendor independent, allowing emphasis on the general design principles.

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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

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Including The Design Asp

Digital Circuits and Design is a textbook dealing with the basics of digital technology including the design aspects of circuits.

The book fulfils the requirements of the students of electrical, electronics, and computer

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science engineering for the first course on the subject. The book is divided into 16 chapters. Each chapter begin with an introduction and ends with a set of review questions and problems. All the topics have been illustrated with clear

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diagrams. A variety of examples are given to enable students to design digital circuits efficiently. The fifth edition of the book provides discussion of Verilog, a popular hardware description language, to demonstrate solutions to problems in digital

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design. The current edition also provides additional example problems.

PULSE AND DIGITAL CIRCUITS

Electronic Devices And Circuit

Theory, 9/e With Cd

ELECTRONIC DEVICES AND

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Data Structures Using C

Special Features: · The book comprehensively covers fundamentals, operational aspects and applications of discrete semiconductor devices such as diodes, bipolar transistors, field

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effect transistors, unijunction transistors, and thyristors and optoelectronic devices in the discrete devices category and detail explanation of operational amplifiers is covered in the

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linear integrated circuits category.· The text is written in a lucid style and uses reader-friendly language.· The layout of the text is very methodical with sections and sub-sections, making reading easy and

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interesting from beginning to end of each chapter.

Each chapter concludes in a comprehensive self-evaluation exercise comprising objective-type questions (with answers), review questions and

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numerical problems (with answers). The text has sufficient worked problems, design examples, review questions and self-evaluation exercises for each chapter. Adequate study material and self-evaluation

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exercises are included to help students in both conventional and competitive exams. About The Book:

Understanding basic operational and applications of electronic devices is fundamental in understanding

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the functional and design aspects of electronics techniques, sub-system or system irrespective of whether it is analog or digital. The study of electronics devices and circuits is essential since

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majority of electronics systems have both analog and digital content. Though present day electronics is dominated by linear and digital integrated circuits, the importance of discrete devices cannot be

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undervalued as they continue to be used in large numbers in a variety of electronic circuits. In addition, understanding operational basics of these devices makes it easier to understand more complex

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integrated circuits. This textbook covers electronic devices and circuits in entirety, for undergraduate and graduate level courses. This study is pertinent for students of electronics, electrical, communication,

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instrumentation and control, information technology and even computer science engineering.

This book presents the basic concepts used in the design and analysis of digital systems and introduces the

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principles of digital computer organization and design.

Digital electronics is an interdisciplinary subject of electronics, electrical, information technology, computer science engineering

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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

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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

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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

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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.

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Circuits (for Jntu)

Electronic Devices and
Circuits

Programming in ANSI C

Digital Systems Design

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practical and example-**

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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

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**waveforms, digital
information and digital
integrated circuits are
discussed in detail using
relevant pedagogy
Designed Primarily For
Courses In Operational**

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**Amplifier And Linear
Integrated Circuits For
Electrical, Electronic,
Instrumentation And
Computer Engineering And
Applied Science Students.
Includes Detailed Coverage**

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**Of Fabrication Technology
Of Integrated Circuits. Basic
Principles Of Operational
Amplifier, Internal
Construction And
Applications Have Been
Discussed. Important Linear**

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**Ics Such As 555 Timer, 565
Phase-Locked Loop, Linear
Voltage Regulator Ics 78/79
Xx And 723 Series D-A And A-
D Converters Have Been
Discussed In Individual
Chapters. Each Topic Is**

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**Covered In Depth. Large
Number Of Solved Problems,
Review Questions And
Experiments Are Given With
Each Chapter For Better
Understanding Of
Text.Salient Features Of**

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**Second Edition * Additional
Information Provided
Wherever Necessary To
Improve The Understanding
Of Linear Ics. * Chapter 2
Has Been Thoroughly
Revised. * Dc & Ac Analysis**

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**Of Differential Amplifier Has
Been Discussed In Detail. *
The Section On Current
Mirrors Has Been
Thoroughly Updated. * More
Solved Examples, Pspice
Programs And Answers To**

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**Selected Problems Have
Been Added.**

**The fundamentals and
implementation of digital
electronics are essential to
understanding the design
and working of**

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**consumer/industrial
electronics,
communications, embedded
systems, computers,
security and military
equipment. Devices used in
applications such as these**

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are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals,

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**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**

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their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and

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**potential applications. With
worked problems, examples,
and review questions for
each chapter, Digital
Electronics includes:
information on number
systems, binary codes,**

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**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,**

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**counters and registers, and
data conversion circuits; up-
to-date coverage of recent
application fields, such as
programmable logic devices,
microprocessors,
microcontrollers, digital**

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**troubleshooting and digital
instrumentation. A
comprehensive, must-read
book on digital electronics
for senior undergraduate
and graduate students of
electrical, electronics and**

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**computer engineering, and a
valuable reference book for
professionals and
researchers.**

**DIGITAL SIGNAL
PROCESSING: PRINCIPLES
ALGORITHMS AND**

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APPLICATIONS
SWITCHING THEORY AND
LOGIC DESIGN

Basic Digital Electronics

Pulse and Digital Circuits
is designed to cater to
the needs of undergraduate

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students of electronics and communication engineering. Written in a lucid, student-friendly style, it covers key topics in the area of pulse and digital

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circuits. This is an introductory text that discusses the basic concepts involved in the design, operation and analysis of waveshaping circuits. The book

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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

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diagrams. Interspersed with numerous solved problems, the text presents detailed analysis of key concepts.

Multivibrators and sweep generators are covered in

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great detail in the book. Digital Electronics is specially designed as a textbook for the undergraduate students of Electronics, Communciation, Computer

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Science, Electrical and Instrumentation Engineering for their introductory course on digital electronics or digital system and design. This junior-level

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electronics text provides a foundation for analyzing and designing analog and digital electronic circuits. Computer analysis and design are recognized as significant

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factors in electronics throughout the book. The use of computer tools is presented carefully, alongside the important hand analysis and calculations. The author,

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Don Neamen, has many years experience as an engineering educator and an engineer. His experience shines through each chapter of the book, rich with realistic examples

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and practical rules of thumb. The book is divided into three parts. Part 1 covers semiconductor devices and basic circuit applications. Part 2 covers more advanced

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topics in analog electronics, and Part 3 considers digital electronic circuits.

Basic Electronics

Let Us C: Authentic Guide to C PROGRAMMING Language

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*17th Edition (English
Edition)*

*With an Introduction to
the Verilog HDL*

*Signals, Systems, and
Filters*

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An up-to-the-minute textbook for junior/senior level signal processing courses and senior/graduate level digital filter design courses, this text is supported by a DSP software package known as D-Filter which would enable students to

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interactively learn the fundamentals of DSP and digital-filter design. The book includes a free license to D-Filter which will enable the owner of the book to download and install the most recent version of the software as well as future updates.

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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

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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.

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Pulse and Digital Circuits**

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Digital Circuits & Design

Digital Logic and Computer Design

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

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use by undergraduate students pursuing courses in Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, and Telecommunication Engineering. It

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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

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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

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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

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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 PSpice for Circuit Theory and

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Electronic Devices is one of a series of five PSpice books and introduces the latest Cadence Orcad PSpice version 10.5 by simulating a range of DC and AC exercises. It is aimed primarily at those wishing to get up to speed with this version but will be

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of use to high school students, undergraduate students, and of course, lecturers. Circuit theorems are applied to a range of circuits and the calculations by hand after analysis are then compared to the simulated results. The Laplace

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transform and the s-plane are used to analyze CR and LR circuits where transient signals are involved. Here, the Probe output graphs demonstrate what a great learning tool PSpice is by providing the reader with a visual verification of any theoretical

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calculations. Series and parallel-tuned resonant circuits are investigated where the difficult concepts of dynamic impedance and selectivity are best understood by sweeping different circuit parameters through a range of

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values. Obtaining semiconductor device characteristics as a laboratory exercise has fallen out of favour of late, but nevertheless, is still a useful exercise for understanding or modelling semiconductor devices.

Inverting and non-inverting

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operational amplifiers characteristics such as gain-bandwidth are investigated and we will see the dependency of bandwidth on the gain using the performance analysis facility. Power amplifiers are examined where PSpice/Probe

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demonstrates very nicely the problems of cross-over distortion and other problems associated with power transistors. We examine power supplies and the problems of regulation, ground bounce, and power factor correction. Lastly, we

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look at MOSFET device characteristics and show how these devices are used to form basic CMOS logic gates such as NAND and NOR gates.

The textbook has been designed for the undergraduate students of

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Electrical and Electronics,
Electronics and Communication,
Computer Science, Electronics and
Instrumentation, Information
Technology and Electronics and
Control Engineering. This book
provides an accessible and practical

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treatment to many combinational and sequential circuits. Each topic has been discussed in sufficient depth to expose the fundamental principles, concepts, techniques which are necessary to understand the subject thoroughly. Salient

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Features of the Book Numerous worked-out examples highlight the need for intelligent approximation to achieve more accuracy in lesser time. Short answer questions at the end of each chapter help in easy understanding of the subject. Large

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number of review questions and unsolved problems to develop a clear understanding of basic principles.

Previous GATE paper solutions are the unique feature of this book.

Solid State

The Scientist and Engineer's Guide

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to Digital Signal Processing

A Textbook of Digital Electronics

Digital Circuits and Systems

Aims of the Book: The

foremost and primary aim

of the book is to meet the

requirements of students

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pursuing following courses of study:1.Diploma in Electronics and Communication Engineering(ECE)-3-year course offered by various Indian and foreign

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polytechnics and technical institutes like city and guilds of London Institute (CGLI).2.B.E.(Elect.& Comm.)-4-year course offered by various Engineering

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Colleges.efforts have beenmade to cover the papers:Electronics-I & II and Pulse and Digital Circuits.3.B.Sc.(Elect.)-3-Year vocationalised course recently introduced by

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Approach.

Digital Design

Digital Design and

Computer Organisation

Digital Signal Processing

Linear Integrated Circuits