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# Pulse And Digital Circuits By A Anand Kumar

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Transistor Switching and Sequential Circuits  
 Pulse and Digital Circuits  
 Devices and Circuits for Their Generation and Processing  
 Fundamentals and Applications  
 Pulse, Digital And Switching Waveforms  
 Digital Electronics  
 Pulse And Digital Circuits  
 Edn Series for Design Engineers  
 Principles and Applications Se W/Student Tutorial CD-ROM 2003  
 Electronics Simplified  
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 Using the TI MSP430 Microcontroller  
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 Introduction to the Design of Amplifiers, Receivers and Digital Circuits  
 CRC Handbook of Digital System Design, Second Edition  
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 High-Speed Pulse Techniques  
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*Pulse And Digital  
 Circuits By A Anand  
 Kumar*

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### Transistor Switching and Sequential Circuits Weber System

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

Pulse and Digital Circuits Elsevier  
 The fundamentals and implementation of digital electronics are essential to understanding the design and working of

consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary

codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

*Devices and Circuits for Their Generation and Processing* Morgan & Claypool Publishers

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.

*Fundamentals and Applications* PHI Learning Pvt. Ltd.

This book provides practicing scientists and engineers a tutorial on the fundamental concepts and use of microcontrollers. Today, microcontrollers, or single integrated circuit (chip) computers, play critical roles in almost all instrumentation and control systems. Most existing books are rewritten for undergraduate and graduate students taking an electrical and/or computer engineering course. Furthermore, these texts have been written with a particular model of microcontroller as the target discussion. These textbooks also require a requisite knowledge of digital design fundamentals. This textbook presents the fundamental concepts common to all microcontrollers. Our goals are to present the over-arching theory of microcontroller operation and to provide a detailed discussion on constituent subsystems available in most microcontrollers. With such goals, we envision that the theory discussed in this book can be readily applied to a wide variety of microcontroller technologies, allowing practicing scientists and engineers to become acquainted with basic concepts prior to beginning a design involving a specific microcontroller. We have found that the fundamental principles of a given microcontroller are

easily transferred to other controllers. Although this is a relatively small book, it is packed with useful information for quickly coming up to speed on microcontroller concepts.

### **Pulse, Digital And Switching**

**Waveforms** Oxford University Press, USA

In system design (in particular, industrial control systems), there is, and has been, a continuous need to sense real-world analog quantities (such as temperature, pressure, or humidity), make computations with them, and then perform some action with the result. In today's systems, the computations need to be made at increased speeds and the accuracy with which the computations must be made, even as the speed increases, must be the same or higher as time progresses. The advent of the microcontroller, and its extensive use in all types of control applications, many of them battery powered, has led to new control system design approaches. Rather than computing using analog quantities, the analog quantities are sensed, conditioned, and converted to digital, processed digitally, and then converted back to an analog output, which is then used to perform the necessary output action. This practical textbook covers the latest techniques in microcontroller-based control system design. It is aimed at engineering students and engineers new to working with microcontrollers. It covers the fundamentals of: 1. Sensors and the electrical signals they output. 2. The design and application of the electronic circuits that receive and condition (change or modify) the sensor analog signals. 3. The design and application of the circuits that convert analog signals to digital and digital signals to analog. 4. The makeup and operation of a microcontroller and how to program it. 5. The application of electronic circuits for system power control. The book, written by an experienced microcontroller engineer and textbook author, is suitable for community college students, technical school students, technicians and engineers just being introduced to microcontroller system design. It is an introductory book, focusing on real-world implementation of a basic control system, with real-world circuit examples. Readers will find clearly written discussion coupled with lots of illustrations. They will also find worked-out examples that illustrate principles within each chapter and quizzes to aid understanding. Besides these specifics, a hands-on project, suitable for an electronics microcontroller laboratory course, using the popular and low-cost TI MSP430 microcontroller, is discussed in

detail. The accompanying CD-ROM contains microcontrollers application notes, code for the software examples, and problem solutions. \* Seasoned Texas Instruments designer provides a ground-up perspective on embedded control systems \* Pedagogical style provides a self-learning approach with examples, quizzes and review features \* CD-ROM contains source code and more!

*Digital Electronics* PHI Learning Pvt. Ltd.

- Explains electronics from fundamentals to applications - no other book has such breadth of coverage
- Approachable, clear writing style with minimal math - no previous knowledge of electronics required!
- Now fully revised and updated to include coverage of the latest developments in electronics: Blu-ray, HD, 3D TV, digital TV and radio, miniature computers, robotic systems and more

Electronics Simplified (previously published as Electronics Made Simple) is essential reading for students embarking on courses involving electronics, anyone whose job involves electronic technology or equipment, and anyone who wants to know more about the electronics revolution. No previous knowledge is assumed and by focusing on how systems work, rather than on details of circuit diagrams and calculations, this book introduces readers to the key principles and technology of modern electronics without needing access to expensive equipment or laboratories. This approach also enables students to gain a firm grasp of the principles they will be applying in the lab. Explains electronics from fundamentals to applications - No other book has such breadth of coverage

Approachable, clear writing style, with minimal math - No previous knowledge of electronics required! Now fully revised and updated to include coverage of the latest developments in electronics: Blu-ray, HD, 3-D TV, digital TV and radio, miniature computers, robotic systems and more.

**Pulse And Digital Circuits** Tata McGraw-Hill Education

Covers Concepts, Principles & Techniques Used to Analyze Solid State Pulse & Digital Circuits

*Edn Series for Design Engineers* Tata McGraw-Hill Education

High-Speed Pulse Techniques covers the many aspects of technique in digital electronics and encompass some of the more fundamental factors that apply to all digital systems. The book describes the nature of pulse signals and their deliberate or inadvertent processing in networks, transmission lines and transformers, and then examines the characteristics and transient performance of semiconductor

devices and integrated circuits. Some of the problems associated with the assembly of these into viable systems operating at ultra high speed are also looked at. The book examines the transients and waveshaping in linear circuits; the steady-state and transient characteristics of the diode switch; and the two most useful diode waveshaping functions, clipping and clamping circuits. The characteristics of distributed-parameter transmission lines with and without losses and their implications in digital systems are also considered. The book then tackles transformer pulse response; bipolar and unipolar transistor transient response; and the characteristics of subnanosecond switching diodes and of high-speed logic. The text describes the implementation of high-speed systems as well. Students and practicing electronics and computer systems engineers will find the book useful.

*Principles and Applications Se W/Student Tutorial CD-ROM 2003* Pearson Education India

Electronic Circuit Design Ideas covers a wide variety of electronic circuit design, which consists of a circuit diagram, waveforms, and an explanation of how the circuit works. This text contains 14 chapters and starts with a review of the principles of digital circuits and interface circuits frequently used in circuit design. The next chapters describe the commonly used timer, op-amp, and amplifier circuits. Other chapters present some examples of waveform generators and oscillators used in circuit design. This work also looks into other classifications of circuits, including phase-locked loop, power-supply, and voltage regulator circuits. The final chapters are devoted to the methods of controlling DC servomotors and stepper motors. These chapters also examine other design ideas, specifically the use of slotted optical sensor based revolution detector, photodiode and magnetic transducer detector, and FSK circuit. This book will prove useful to electrical engineers, electronics professionals, hobbyists, and students.

*Electronics Simplified* Pearson Education India

For over thirty years, Stan Amos has provided students and practitioners with a text they could rely on to keep them at the forefront of transistor circuit design. This seminal work has now been presented in a clear new format and completely updated to include the latest equipment such as laser diodes, Trapatt diodes, optocouplers and GaAs transistors, and the most recent line output stages and switch-mode power supplies. Although integrated circuits have

widespread application, the role of discrete transistors is undiminished, both as important building blocks which students must understand and as practical solutions to design problems, especially where appreciable power output or high voltage is required. New circuit techniques covered for the first time in this edition include current-dumping amplifiers, bridge output stages, dielectric resonator oscillators, crowbar protection circuits, thyristor field timebases, low-noise blocks and SHF amplifiers in satellite receivers, video clamps, picture enhancement circuits, motor drive circuits in video recorders and camcorders, and UHF modulators. The plan of the book remains the same: semiconductor physics is introduced, followed by details of the design of transistors, amplifiers, receivers, oscillators and generators. Appendices provide information on transistor manufacture and parameters, and a new appendix on transistor letter symbols has been included.

*Devices and Circuits for Their Generation and Processing* Elsevier

Analog electronics is the simplest way to start a fun, informative, learning program. *Beginning Analog Electronics Through Projects, Second Edition* was written with the needs of beginning hobbyists and students in mind. This revision of Andrew Singmin's popular *Beginning Electronics Through Projects* provides practical exercises, building techniques, and ideas for useful electronics projects.

Additionally, it features new material on analog and digital electronics, and new projects for troubleshooting test equipment. Published in the tradition of *Beginning Electronics Through Projects* and *Beginning Digital Electronics Through Projects*, this book limits theory to "need-to-know" information that will allow you to get started right away without complex math. Commonly used electronic components and their functions are described briefly in everyday terms. Ideal for progressive learning, each of the projects builds on the theory and component knowledge developed in earlier chapters. Step-by-step instructions facilitate one's learning of techniques for component identification, soldering, troubleshooting, and much more. Includes instructions for using a general purpose assembly board. Practical, enjoyable, useful approach to learning about electronics. Features twelve easy and useful projects designed to familiarize beginners and hobbyists with the most commonly used ICs

**Pulse, Digital, and Switching Waveforms** Elsevier

Electronics explained in one volume, using both theoretical and practical applications. Mike Tooley provides all the information required to get to grips with the fundamentals of electronics, detailing the underpinning knowledge necessary to appreciate the operation of a wide range of electronic circuits, including amplifiers, logic circuits, power supplies and oscillators. The 5th edition includes an additional chapter showing how a wide range of useful electronic applications can be developed in conjunction with the increasingly popular Arduino microcontroller, as well as a new section on batteries for use in electronic equipment and some additional/updated student assignments. The book's content is matched to the latest pre-degree level courses (from Level 2 up to, and including, Foundation Degree and HND), making this an invaluable reference text for all study levels, and its broad coverage is combined with practical case studies based in real-world engineering contexts. In addition, each chapter includes a practical investigation designed to reinforce learning and provide a basis for further practical work. A companion website at <http://www.key2electronics.com> offers the reader a set of spreadsheet design tools that can be used to simplify circuit calculations, as well as circuit models and templates that will enable virtual simulation of circuits in the book. These are accompanied by online self-test multiple choice questions for each chapter with automatic marking, to enable students to continually monitor their own progress and understanding. A bank of online questions for lecturers to set as assignments is also available.

**Pulse and Digital Circuits** Elsevier  
This book is intended for anyone who has an interest to learn the analysis and design of analog and digital systems. The book covers the foundation of analysis and design of all analog and pulse circuits. Note: T& F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.  
*Pulse And Digital Circuits* Englewood Cliffs, N.J. : Prentice Hall

*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.

*Solid State Pulse Circuits* de Gruyter  
This textbook will act as guide for the students in the subject Pulse and Digital Circuits exclusively in the point of examination. This book covers the following topics with solved problems: 1. Linear Wave Shaping 2. Non-Linear Wave Shaping 3. Clippers 4. Clampers 5. Multivibrators 6. Time Base Generators 7. Logic Families 8. Sampling gates  
*Digital Electronic Circuits* Routledge  
Transistor Switching and Sequential Circuits presents the basic ideas involved in the construction of computers, instrumentation, pulse communication systems, and automation. This book discusses the design procedure for sequential circuits. Organized into two parts encompassing eight chapters, this book begins with an overview of the ways on how to generate the types of waveforms needed in digital circuits, principally ramps, square waves, and delays. This text then considers the behavior of some simple circuits, including the inverter, the emitter follower, and the long-tailed pair. Other chapters examine the significant methods of producing non-sinusoidal waveforms, such as saw-tooth waves or square waves. This book discusses as well the procedures in organizing a circuit, which can be used in more complex applications than in the design of counters. The final chapter deals with the principle of machine multiplication. This book is a valuable resource for students engaged in the design and construction of digital or switching circuits.

*Electronic Circuit Design Ideas* Elsevier  
This volume extensively covers semiconductor pulse circuits, explaining circuit operation and analysis and discusses in detail practical pulse circuit design methods.

*Pulse and Digital Circuits* Elsevier  
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.

*Microcontrollers Fundamentals for Engineers and Scientists* Pulse and Digital Circuits  
New, updated and expanded topics in the fourth edition include: EBCDIC, Grey code, practical applications of flip-flops, linear

and shaft encoders, memory elements and FPGAs. The section on fault-finding has been expanded. A new chapter is dedicated to the interface between digital components and analog voltages. \*A highly accessible, comprehensive and fully up to date digital systems text \*A well known and respected text now revamped for current courses \*Part of the Newnes suite of texts for HND/1st year modules  
*Pulse and Digital Circuits: For JNTUK* Elsevier

As technology advances, digital system designers must acquire and maintain skills to design systems with analog, pulse/time, and digital circuits along with LSI and VLSI devices. The CRC Handbook of Digital System Design, Second Edition reviews the fundamentals of these topics for the convenience of designers who need to refresh their memories from time to time. In a somewhat unique presentation, this book integrates theory with practical design and covers three broad topics: The basics- formulas, design equation, terminology, symbols, and notation Characteristics, properties, and principles of operation of devices, modules, and building blocks frequently used as components in digital system design Design procedures-guidelines for system design presented through examples The author includes numerous examples, both simple and complex, throughout the book that help clarify points often confusing or overlooked. He also addresses memory and arithmetic unit design, techniques of grounding and shielding for analog and digital noise, and graphical techniques for nonlinear circuits and transmission line analysis. The style is straightforward, the treatment self-contained and practical. The CRC Handbook of Digital System Design, Second Edition remains a popular and valuable resource for anyone involved in digital system design.

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