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Pulse and Digital Circuits is designed to cater to the needs of undergraduate students of electronics and communication engineering.

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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,

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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

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majors and students of related sciences with a sound basic understanding of electronics and how it is used, principally in the physical sciences. While today few science students

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go on to careers that demand an ability to design and build electronic circuits, many will use and rely on electronics. As scientists, they will require an appropriate level of

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fundamental knowledge that enables them, for example, to understand what electronic equipment is doing, to correctly interpret the measurements obtained, and to appreciate the

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numerous links between electronics and how it is practiced, and other areas of science. Discussing electronics in the broader context and from the point of view of the scientist, this

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book is intended for students who are not planning to become electronics specialists. It has been written in a relatively informal, personal style and includes detailed examples,

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as well as some “outside the box” material to inspire thought and creativity. A selection of relevant exercises is included at the end of each chapter. Designed specifically for

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undergraduate students of Electronics and Electrical Engineering and its related disciplines, this book offers an excellent coverage of all essential topics and provides a solid foundation

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for analysing electronic circuits. It covers the course named Electronic Devices and Circuits of various universities. The book will also be useful to diploma students, AMIE students,

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and those pursuing courses in B.Sc. (Electronics) and M.Sc. (Physics). The students are thoroughly introduced to the full spectrum of fundamental topics beginning with the

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theory of semiconductors and p-n junction behaviour. The devices treated include diodes, transistors—BJTs, JFETs and MOSFETs—and thyristors. The circuitry covered comprises small

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signal (ac), power amplifiers, oscillators, and operational amplifiers including many important applications of those versatile devices. A separate chapter on IC fabrication

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technology is provided to give an idea of the technologies being used in this area. There are a variety of solved examples and applications for conceptual understanding.

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Problems at the end of each chapter are provided to test, reinforce and enhance learning.

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Implementation

This text is an introduction to the basic principles of electrical engineering and covers DC and AC circuit analysis and Transients. It is intended for all engineering

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majors and presumes knowledge of first year differential and integral calculus and physics. The last two chapters include step-by-step procedures for the solutions of simple differential

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equations used in the derivation of the natural and forced responses. Appendices A, B, and C are introductions to MATLAB, Simulink, and SimPowerSystems respectively. Appendix D is a

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***review of Complex Numbers,
and Appendix E is an
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***behaviour of electric circuits
and networks.***

***Recent technological
advances have created a
testing crisis in the electronics
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and new packaging techniques make it increasingly difficult to physically access test nodes. New testing methods are needed for the next generation of electronic equipment and a

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great deal of emphasis is being placed on the development of these methods. Some of the techniques now becoming popular include design for testability (DFT), built-in self-

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test (BIST), and automatic test vector generation (ATVG). This book will provide a practical introduction to these and other testing techniques. For each technique introduced, the author provides real-world

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- Provides in-depth coverage of both analog and digital transistor-level design techniques
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The combined three volumes of these texts cover traditional linear circuit analysis topics - both concepts and computation - including the use of available software for problem solution where necessary. The text balances emphasis on concepts and calculation so students learn the basic principles and

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properties that govern circuits behaviour, while they gain a firm understanding of how to solve computational techniques they will face in the world of professional engineers.

Key Message: This book aims to explain physics in a readable and interesting manner that is accessible and clear, and

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treatment of the topic. Not only does this make the material more interesting and easier to understand, but it is closer to the way physics is actually practiced.

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which require little to no debugging before release. It provides step-by-step instruction featuring modern components, such as analog and mixed signal blocks, in each chapter. The book details every aspect of the design process from conceptualization and specification to final implementation and release. The text also demonstrates

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how to utilize device data sheet information and associated application notes to design an electronic system. The hybrid nature of electronic system design poses a great challenge to engineers. This book equips electronics designers with the practical knowledge and tools needed to develop problem free prototypes that are

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ready for release.

Building energy design is currently going through a period of major changes. One key factor of this is the adoption of net-zero energy as a long term goal for new buildings in most developed countries. To achieve this goal a lot of research is needed to accumulate knowledge and to

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utilize it in practical applications. In this book, accomplished international experts present advanced modeling techniques as well as in-depth case studies in order to aid designers in optimally using simulation tools for net-zero energy building design. The strategies and technologies discussed in this book are,

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however, also applicable for the design of energy-plus buildings. This book was facilitated by International Energy Agency's Solar Heating and Cooling (SHC) Programs and the Energy in Buildings and Communities (EBC) Programs through the joint SHC Task 40/EBC Annex 52: Towards Net Zero

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Energy Solar Buildings R&D collaboration. After presenting the fundamental concepts, design strategies, and technologies required to achieve net-zero energy in buildings, the book discusses different design processes and tools to support the design of net-zero energy buildings (NZEBS). A substantial

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chapter reports on four diverse NZEBs that have been operating for at least two years. These case studies are extremely high quality because they all have high resolution measured data and the authors were intimately involved in all of them from conception to operating. By comparing the projections made using the

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respective design tools with the actual performance data, successful (and unsuccessful) design techniques and processes, design and simulation tools, and technologies are identified. Written by both academics and practitioners (building designers) and by North Americans as well as Europeans, this book provides a

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and explore internet supplements. The format of this differential equations book is different; it is a one-semester, brief treatment of the basic ideas, models, and solution methods. Its limited coverage places it somewhere between an outline and a detailed book. I have tried to write concisely, to the point, and in plain language. Many

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worked examples and exercises are included. A student who works through this primer will have the tools to go to the next level in applying differential equations to problems in engineering, science, and applied mathematics. It can give some instructors, who want more concise coverage, an alternative to existing texts.

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high definition TV, artificial intelligence, and quantum computers. Incorporates comprehensive updates and expanded material in all chapters where appropriate Includes new problems added throughout the text

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Features an updated section on RLC circuits Presents revised and new content in Chapters 7, 8, and 9 on digital systems, showing the many changes and rapid progress in these areas since 2000

This book is intended for anyone

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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. The book is organized into seven chapters. In each chapter,

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Differential Equations; Romeo and Juliet

The first model for the distribution of ions near the surface of a metal electrode was devised by Helmholtz in 1874. He envisaged two parallel sheets of charges of

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opposite sign located one on the metal surface and the other on the solution side, a few nanometers away, exactly as in the case of a parallel plate capacitor. The rigidity of such a model was allowed for by Gouy and Chapman inde

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pendently, by considering that ions in solution are subject to thermal motion so that their distribution from the metal surface turns out diffuse. Stern recognized that ions in solution do not behave as point charges as in the Gouy-Chapman

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treatment, and let the center of the ion charges reside at some distance from the metal surface while the distribution was still governed by the Gouy-Chapman view. Finally, in 1947, D. C. Grahame transferred the

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knowledge of the structure of electrolyte solutions into the model of a metal/solution interface, by envisaging different planes of closest approach to the electrode surface depending on whether an ion is solvated or interacts directly with

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the solid wall. Thus, the Gouy-Chapman-Stern-Grahame model of the so-called electrical double layer was born, a model that is still qualitatively accepted, although theoreticians have introduced a number of new parameters of which

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people were not aware 50 years ago.

Radio Frequency Integrated
Circuits and Systems

Circuit Analysis (for Anna
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CMOS

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Applications to Electrochemical and
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of Electrical Engineering at Fairleigh Dickinson University. He received his B.S. from National Taiwan University and M.S. and Ph.D. from Case Institute of Technology. He has published several books which include Schaum's Outline of Analog and Digital

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