

Electronic Circuit Analysis 2nd Edition

Electronic Circuit Analysis: For JNTUK is designed to serve as a textbook for the fourth-semester undergraduate course on electronic circuits analysis at (JNTUK). It engages with the subject from its basic principles, providing detailed coverage on the design and analysis of electronic circuits, and offers a rich repertoire of solved examples and exercise problems to enhance learning.

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Used collectively, PSPICE and MATLAB® are unsurpassed for circuit modeling and data analysis. PSPICE can perform DC, AC, transient, Fourier, temperature, and Monte Carlo analysis of electronic circuits with device models and subsystem subcircuits. MATLAB can then carry out calculations of device parameters, curve fitting, numerical integration, numerical differentiation, statistical analysis, and two- and three-dimensional plots. PSPICE and MATLAB® for Electronics: An Integrated Approach, Second Edition illustrates how to use the strong features of PSPICE and the powerful functions of MATLAB for electronic circuit analysis. After introducing the basic commands and advanced features of PSPICE as well as ORCAD schematics, the author discusses MATLAB fundamentals and functions. He then describes applications of PSPICE and MATLAB for problem solving. Applications covered include diodes, operational amplifiers, and transistor circuits. New to the Second Edition Updated MATLAB topics Schematic capture and text-based PSPICE netlists in several chapters New chapter on PSPICE simulation using the ORCAD schematic capture program New examples and problems, along with a revised bibliography in each chapter This second edition continues to provide an introduction to PSPICE and a simple, hands-on overview of MATLAB. It also demonstrates the combined power of PSPICE and MATLAB for solving electronics problems. The book encourages readers to explore the characteristics of semiconductor devices using PSPICE and MATLAB and apply the two software packages for analyzing electronic circuits and systems.

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Microelectronics: Circuit Analysis and Design is intended as a core text in electronics for undergraduate electrical and computer engineering students. The fourth edition continues to provide a foundation for analyzing and designing both analog and digital electronic circuits. The goal has always been to make this book very readable and student friendly. An accessible approach to learning through clear writing and practical pedagogy has become the hallmark of Microelectronics: Circuit Analysis and Design by Donald Neamen. Now in its fourth edition, the text builds upon its strong pedagogy and tools for student assessment with key updates as well as revisions that allow for flexible coverage of op-amps.

??Prentice Hall??????

Confusing Textbooks? Missed Lectures? Tough Test Questions? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.

This updated version of its internationally popular predecessor provides and introductory problem-solved text for understanding fundamental concepts of electronic devices, their design, and their circuitry. Providing an interface with Pspice, the most widely used program in electronics, new key features include a new chapter presenting the basics of switched mode power supplies, thirty-one new examples, and twenty-three PS solved problems.

Weighing in on the growth of innovative technologies, the adoption of new standards, and the lack of educational development as it relates to current and emerging applications, the third edition of Introduction to Instrumentation and Measurements uses the authors' 40 years of teaching experience to expound on the theory, science, and art of modern instrumentation and measurements (I&M). What's New in This Edition: This edition includes material on modern integrated circuit (IC) and photonic sensors, micro-electro-mechanical (MEM) and nano-electro-mechanical (NEM) sensors, chemical and radiation sensors, signal conditioning, noise, data interfaces, and basic digital signal processing (DSP), and upgrades every chapter with the latest advancements. It contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on wireless instrumentation and microsensors, and incorporates extensive biomedical examples and problems. Containing 13 chapters, this third edition: Describes sensor dynamics, signal conditioning, and data display and storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null measurements Examines Wheatstone and Kelvin bridges and potentiometers Explores the major AC bridges used to measure inductance, Q, capacitance, and D Presents a survey of sensor mechanisms Includes a description and analysis of sensors based on the giant magnetoresistive effect (GMR) and the anisotropic magnetoresistive (AMR) effect Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid-state chemical microsensors and wireless instrumentation Introduces mechanical microsensors (MEMS and NEMS) Details examples of the design of measurement systems Introduction to Instrumentation and Measurements is written with practicing engineers and scientists in mind, and is intended to be used in a classroom course or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents.

Discusses how to apply the principles of digital electronics and offers more than 950 solved and supplementary problems

This book on "Electronic Circuit Analysis" explores the concepts of Circuit Analysis in a simple and easy-to-understand manner. This book is designed specifically to cater to the needs of fourth semester students of B.Tech in Electronics and Communications Engineering, JNTU. Written in a lucid language, this book offers a crisp presentation of all the topics supported by

adequate examples. A simplified approach to enable ease of understanding of the concepts, adequate illustrations, examples and practice problems have also been provided in all the chapters. Salient Features: ? Comprehensive coverage with lucid presentation style ? Rich exam-oriented pedagogy ? Solved Numerical Examples within chapters ? Unsolved Review Questions ? Multi-choice Questions

The book provides elementary treatment on construction, functioning, characteristics and applications of semiconductor devices. The treatment emphasizes on developing clear understanding of the device functionality.

Analysis and Application of Analog Electronic Circuits to Biomedical Instrumentation, Second Edition helps biomedical engineers understand the basic analog electronic circuits used for signal conditioning in biomedical instruments. It explains the function and design of signal conditioning systems using analog ICs—the circuits that enable ECG, EEG, EMG, ERG, tomographic images, biochemical spectrograms, and other crucial medical applications. This book demonstrates how op amps are the keystone of modern analog signal conditioning system design and illustrates how they can be used to build instrumentation amplifiers, active filters, and many other biomedical instrumentation systems and subsystems. It introduces the mathematical tools used to describe noise and its propagation through linear systems, and it looks at how signal-to-noise ratios can be improved by signal averaging and linear filtering. Features Analyzes the properties of photonic sensors and emitters and the circuits that power them Details the design of instrumentation amplifiers and medical isolation amplifiers Considers the modulation and demodulation of biomedical signals Examines analog power amplifiers, including power op amps and class D (switched) PAs Describes wireless patient monitoring, including Wi-Fi and Bluetooth communication protocols Explores RFID, GPS, and ultrasonic tags and the design of fractal antennas Addresses special analog electronic circuits and systems such as phase-sensitive rectifiers, phase detectors, and IC thermometers By explaining the "building blocks" of biomedical systems, the author illustrates the importance of signal conditioning systems in the devices that gather and monitor patients' critical medical information. Fully revised and updated, this second edition includes new chapters, a glossary, and end-of-chapter problems. What's New in This Edition Updated and revised material throughout the book A chapter on the applications, circuits, and characteristics of power amplifiers A chapter on wireless patient monitoring using UHF telemetry A chapter on RFID tags, GPS tags, and ultrasonic tags A glossary to help you decode the acronyms and terms used in biomedical electronics, physiology, and biochemistry New end-of-chapter problems and examples

The importance of Electrical Circuit Analysis is well known in the various engineering fields. The book provides comprehensive coverage of mesh and node analysis, various network theorems, analysis of first and second order networks using time and Laplace domain, steady state analysis of a.c. circuits, coupled circuits and dot conventions, network functions, resonance and two port network parameters. The book starts with explaining the network simplification techniques including mesh analysis, node analysis and source shifting. Then the book explains the various network theorems and concept of duality. The book also covers the solution of first and second order networks in time domain. The sinusoidal steady state analysis of electrical circuits is also explained in the book. The book incorporates the discussion of coupled circuits and dot conventions. The Laplace transform plays an important role in the network analysis. The chapter on Laplace transform includes properties of Laplace transform and its application in the network analysis. The book includes the discussion of network functions of one and two port networks. The book incorporates the detailed discussion of resonant circuits. The book covers the various aspects of two port network parameters along with the conditions of symmetry and reciprocity. It also derives the interrelationships between the two port network parameters. The book uses plain and lucid language to explain each topic. Each chapter gives the conceptual knowledge about the topic dividing it in various sections and subsections. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book. The book explains the philosophy of the subject which makes the understanding of the subject very clear and makes the subject more interesting.

Electronic Circuit Analysis is an important component of the broad area of Electronic and Communication Engineering. Electronic Circuit Design and Analysis aspects are dealt within this book. Learning these topics is very essential for any electronics engineer. In this competitive world a student must learn the subject thoroughly to secure a job., or to learn the concepts proper effort must be made. This book is written with this motive. Since publishing First Edition of this book three years back, there are few additions in the subject and also as a result of receiving some feed back, it has become imperative to bring another edition, to cover the lapses and bring the text matter more useful to students. Main Features · Reorganized the chapters as per the new syllabus. · Added chapters on High Frequency Amplifiers, Stability Considerations, UPS and SMPS. · Worked examples and objective type questions are provided in each chapter.

This fully updated textbook provides complete coverage of electrical circuits and introduces students to the field of energy conversion technologies, analysis and design. Chapters are designed to equip students with necessary background material in such topics as devices, switching circuit analysis techniques, converter types, and methods of conversion. The book contains a large number of examples, exercises, and problems to help enforce the material presented in each chapter. A detailed discussion of resonant and softswitching dc-to-dc converters is included along with the addition of new chapters covering digital control, non-linear control, and micro-inverters for power electronics applications. Designed for senior undergraduate and graduate electrical engineering students, this book provides students with the ability to analyze and design power electronic circuits used in various industrial applications.

This study guide is designed for students taking advanced courses in electrical circuit analysis. The book includes examples, questions, and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom. Offering detailed solutions, multiple methods for solving problems, and clear explanations of concepts, this hands-on guide will improve student's problem-solving skills and basic understanding of the topics covered in electric circuit analysis courses.

MICROELECTRONIC CIRCUITS: ANALYSIS AND DESIGN, 3E combines a breadth-first approach to learning electronics with a strong emphasis on design and simulation. This book first introduces the general characteristics of circuits (ICs) in preparation for using circuit design and analysis techniques. This edition then offers a more detailed study of devices and circuits and how they operate within ICs. More than half of the problems and examples concentrate on design and emphasize how to use computer software tools extensively. The book's proven sequence introduces electronic devices and circuits, then electronic circuits and applications, and finally, digital and analog integrated circuits. Readers learn to apply theory to real-world design problems as they master the skills to test and verify their designs.

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Luis Moura and Izzat Darwazeh introduce linear circuit modelling and analysis applied to both electrical and electronic circuits, starting with DC and progressing up to RF, considering noise analysis along the way. Avoiding the tendency of current textbooks to focus either on the basic electrical circuit analysis theory (DC and low frequency AC frequency range), on RF circuit analysis theory, or on noise analysis, the authors combine these subjects into the one volume to provide a comprehensive set of the main techniques for the analysis of electric circuits in these areas. Taking the subject from a modelling angle, this text brings together the most common and traditional circuit analysis techniques (e.g. phasor analysis) with system and signal theory (e.g. the concept of system and transfer function), so students can apply the theory for analysis, as well as modelling of noise, in a broad range of electronic circuits. A highly student-focused text, each chapter contains exercises, worked examples and end of chapter problems, with an additional glossary and bibliography for reference. A balance between concepts and applications is maintained throughout. Luis Moura is a Lecturer in Electronics at the University of Algarve. Izzat Darwazeh is Senior Lecturer in Telecommunications at University College, London, previously at UMIST. An innovative approach fully integrates the topics of electrical and RF circuits, and noise analysis, with circuit modelling. Highly student-focused, the text includes exercises and worked examples throughout, along with end of chapter problems to put theory into practice.

Preface to Second Edition Preface to First Edition Symbols Brief History of Electronics Unit - 1 Single Stage Amplifiers Unit - 2 Multistage Amplifiers Unit - 3 High Frequency Transistor Circuits Unit - 4 Power Amplifiers Unit - 5 Tuned Amplifiers - I Unit - 6 Tuned Amplifiers - II Unit - 7 Voltage Regulators Unit - 8 Switching and IC Voltage Regulators Appendices Index References

The Electronic Circuits 2nd Edition by Joseph Berardi is a major revision to the original title. The 2nd edition has added many more circuit examples, test circuits, experiments, photographs and captured waveforms. New to this edition is the circuit modeling techniques and a detailed step-by-step design and analysis section for a transistor amplifier. New to this edition are the numerous programming examples for making circuit calculations using the FreeBASIC programming language. New to this book is an in-depth Butterworth filter design section including programming examples. This book keeps its introductory material starting out with the very basics of the physical science of electrons and basic concepts of electricity, learning electronics terminologies and the numerous laws of electricity that are used to analyze electrical circuits. Among the laws and theories covered are: Ohm's law, Kirchhoff's laws, time constants, voltage dividers, transient circuits, trigonometric functions such as the sine function and the concept of imaginary numbers. Different types of test equipment are introduced including voltmeter, current meters, digital, analog and the concepts of resolution and accuracy. Power sources and amplifier principles are among the many topics. The book introduces the theory and application of numerous components including resistors, capacitors, inductors, transformers, diodes, rectification techniques, bipolar and JFET transistors. The reader learns about transistor oscillators and IC oscillator circuits to make different types of signals including sine, square and ramp waveforms. Modulation and demodulation techniques are introduced including an AM radio test circuit. This is an application oriented book so there are many component reference circuits and partial datasheets to obtain the necessary component information for making circuits. The 7400 series logic devices, op-amps and specialty Integrated Circuits (ICs) such as the 555 timer chip are covered including datasheet information. The author had a 24-year career in electronic development starting in the late seventies working for some of the largest electronic employers in the United States including Motorola, Martin Marietta Aerospace, StorageTek and Intel Co.

This collection of solved electrical engineering problems should help you review for the Fundamentals of Engineering (FE) and Principles and Practice (PE) exams. With this guide, you'll hone your skills as well as your understanding of both fundamental and more difficult topics. 100% problems and step-by-step solutions.

The use of MATLAB is ubiquitous in the scientific and engineering communities today, and justifiably so. Simple programming, rich graphic facilities, built-in functions, and extensive toolboxes offer users the power and flexibility they need to solve the complex analytical problems inherent in modern technologies. The ability to use MATLAB effectively has become practically a prerequisite to success for engineering professionals. Like its best-selling predecessor, Electronics and Circuit Analysis Using MATLAB, Second Edition helps build that proficiency. It provides an easy, practical introduction to MATLAB and clearly demonstrates its use in solving a wide range of electronics and circuit analysis problems. This edition reflects recent MATLAB enhancements, includes new material, and provides even more examples and exercises. New in the Second Edition: Thorough revisions to the first three chapters that incorporate additional MATLAB functions and bring the material up to date with recent changes to MATLAB. A new chapter on electronic data analysis. Many more exercises and solved examples. New sections added to the chapters on two-port networks, Fourier analysis, and semiconductor physics. MATLAB m-files available for download. Whether you are a student or professional engineer or technician, Electronics and Circuit Analysis Using MATLAB, Second Edition will serve you well. It offers not only an outstanding introduction to MATLAB, but also forms a guide to using MATLAB for your specific purposes: to explore the characteristics of semiconductor devices and to design and analyze electrical and electronic circuits and systems.

Power electronics systems are nonlinear variable structure systems. They involve passive components such as resistors, capacitors, and inductors, semiconductor switches such as thyristors and MOSFETs, and circuits for control. The analysis and design of such systems presents significant challenges. Fortunately, increased availability of powerful computer and simulation programs makes the analysis/design process much easier. PSIM® is an electronic circuit simulation software package, designed specifically for use in power electronics and motor drive simulations but can be used to simulate any electronic circuit. With fast simulation speed and user friendly interface, PSIM provides a powerful simulation environment to meet the user simulation and development needs. This book shows how to simulate the power electronics circuits in PSIM environment. The prerequisite for this book is a first course on power electronics. This book is composed of eight chapters: Chapter 1 is an introduction to PSIM. Chapter 2 shows the fundamentals of circuit simulation with PSIM. Chapter 3 introduces the Simview™. Simview is PSIM's waveform display and post-processing program. Chapter 4 introduces the most commonly used components of PSIM. Chapter 5 shows how PSIM can be used for analysis of power electronics circuits. 45 examples are studied in this chapter. Chapter 6 shows how you can simulate motors and mechanical loads in PSIM. Chapter 7 introduces the SimCoupler™. Simcoupler fuses PSIM with Simulink® by providing an interface for co-simulation. Chapter 8 introduces the SmartCtrl®. SmartCtrl is a controller design software specifically geared towards power electronics applications. <https://powersimtech.com/2021/10/01/book-release-power-electronics-circuit-analysis-with-psim/>

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The book, now in its Second Edition, presents the concepts of electrical circuits with easy-to-understand approach based on classroom experience of the authors. It deals with the fundamentals of electric circuits, their components and the mathematical tools used to represent and analyze electrical circuits. This text guides students to analyze and build simple electric circuits. The presentation is very simple to facilitate self-study to the students. A better way to understand the various aspects of electrical circuits is to solve many problems. Keeping this in mind, a large number of solved and unsolved problems have been included. The chapters are arranged logically in a proper sequence so that successive topics build upon earlier topics. Each chapter is supported with necessary illustrations. It serves as a textbook for undergraduate engineering students of multiple disciplines for a course on 'circuit theory' or 'electrical circuit analysis' offered by major technical universities across the country. SALIENT FEATURES • Difficult topics such as transients, network theorems, two-port networks are presented in a simple manner with numerous examples. • Short questions with answers are provided at the end of every chapter to help the students to understand the basic laws and theorems. • Annotations are given at appropriate places to ensure that the students get the gist of the subject matter clearly. NEW TO THE SECOND

EDITION • Incorporates several new solved examples for better understanding of the subject • Includes objective type questions with answers at the end of the chapters • Provides an appendix on 'Laplace Transforms'

The central theme of Introduction to Electric Circuits is the concept that electric circuits are a part of the basic fabric of modern technology. Given this theme, this book endeavors to show how the analysis and design of electric circuits are inseparably intertwined with the ability of the engineer to design complex electronic, communication, computer and control systems as well as consumer products. This book is designed for a one-to three-term course in electric circuits or linear circuit analysis, and is structured for maximum flexibility.

Fundamentals of Microelectronics, 2nd Edition is designed to build a strong foundation in both design and analysis of electronic circuits this text offers conceptual understanding and mastery of the material by using modern examples to motivate and prepare readers for advanced courses and their careers. The book's unique problem-solving framework enables readers to deconstruct complex problems into components that they are familiar with which builds the confidence and intuitive skills needed for success.

The book provides instructions on building circuits on breadboards, connecting the Analog Discovery wires to the circuit under test, and making electrical measurements. Various measurement techniques are described and used in this book, including: impedance measurements, complex power measurements, frequency response measurements, power spectrum measurements, current versus voltage characteristic measurements of diodes, bipolar junction transistors, and Mosfets. The book includes end-of-chapter problems for additional exercises geared towards hands-on learning, experimentation, comparisons between measured results and those obtained from theoretical calculations.

This book provides an introduction to the cost modeling for electronic systems that is suitable for advanced undergraduate and graduate students in electrical, mechanical and industrial engineering, and professionals involved with electronics technology development and management. This book melds elements of traditional engineering economics with manufacturing process and life-cycle cost management concepts to form a practical foundation for predicting the cost of electronic products and systems. Various manufacturing cost analysis methods are addressed including: process-flow, parametric, cost of ownership, and activity based costing. The effects of learning curves, data uncertainty, test and rework processes, and defects are considered. Aspects of system sustainment and life-cycle cost modeling including reliability (warranty, burn-in), maintenance (sparing and availability), and obsolescence are treated. Finally, total cost of ownership of systems, return on investment, cost-benefit analysis, and real options analysis are addressed.

-- Chock-full of information and useful data, this unbeatable problem-solving package focuses on all topics needed for an in-depth study of microelectronics-- Includes industrial data sheets, chapter-ending topic summaries, and concept checklists -- plus new industry application and historical boxes, redesigned problems (with icons), and more-- A CD-ROM containing additional PowerPoint slides and circuit simulation files for Electronics Workbench is included free with every book

This book/lecture is intended for a college freshman level class in problem solving, where the particular problems deal with electrical and electronic circuits. It can also be used in a junior/senior level class in high school to teach circuit analysis. The basic problem-solving paradigm used in this book is that of resolution of a problem into its component parts. The reader learns how to take circuits of varying levels of complexity using this paradigm. The problem-solving exercises also familiarize the reader with a number of different circuit components including resistors, capacitors, diodes, transistors, and operational amplifiers and their use in practical circuits. The reader should come away with both an understanding of how to approach complex problems and a feel for electrical and electronic circuits."

The book covers all the aspects of theory, analysis, and design of Electronic Circuits for the undergraduate course. It provides all the essential information required to understand the operation and perform the analysis and design of a wide range of electronic circuits, including MOSFET as a switching and amplifier circuits, feedback amplifiers, oscillators, voltage regulators, operational amplifiers and its applications, DAC, ADC, and Phase-Locked Loop. The book is divided into four parts. The first part focuses on the fundamental concepts of MOSFET, MOSFET construction, characteristics, and circuits - as a switch, as a resistor/diode, as an amplifier, and current sink and source circuits. The second part focuses on the analysis of voltage-series and current-series feedback amplifiers. It also explains the Barkhausen criterion for oscillation and incorporates the detailed analysis of Wien bridge and phase-shift oscillators. The third part is dedicated to the basics of op-amp and a discussion of a variety of its applications. The fourth part focuses on the V to I and I to V Converters, DAC and ADC, and Phase-Locked Loop. The book uses straightforward and lucid language to explain each topic. The book provides the logical method of describing the various complicated issues and stepwise methods to make understanding easy. The variety of solved examples is the feature of this book. The book explains the subject's philosophy, which makes understanding the concepts evident and makes the subject more interesting.

Designed as a text for the students of various engineering streams 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 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 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 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 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 Questions at the end of each chapter. • A fairly large number of unsolved problems with answers.

The ideal review for your basic circuit analysis course More than 40 million students have trusted Schaum's Outlines for their expert knowledge and helpful solved problems. Written by renowned experts in their respective fields, Schaum's Outlines cover everything from math to science, nursing to language. The main feature for all these books is the solved problems. Step-by-step, authors walk readers through coming up with solutions to exercises in their topic of choice. 700 solved problems Outline format supplies a concise guide to the standard college course in basic circuits Clear, concise explanations of all electric circuits concepts Appropriate for the following courses: Basic Circuit Analysis,

Electrical Circuits, Electrical Engineering Circuit Analysis, Introduction to Circuit Analysis, AC & DC Circuits Supports and supplements the bestselling textbooks in circuits Easily understood review of basic circuit analysis Supports all the major textbooks for basic circuit analysis courses

An undergraduate text dealing with the analysis and design of continuous-signal electronic hardware. Treatment throughout is at device/component level with sufficient explanation to enable the reader to develop both an understanding of the principles involved and a proficiency in basic design.

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