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***Microelectronic
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**This market-leading
textbook continues its**

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standard of excellence and innovation built on the solid pedagogical foundation of previous editions. This new edition has been thoroughly updated to reflect changes

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**in technology, and includes
new BJT/MOSFET coverage
that combines and
emphasizes the unity of the
basic principles while
allowing for separate
treatment of the two device**

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**types where needed. Amply
illustrated by a wealth of
examples and
complemented by an
expanded number of well-
designed end-of-chapter
problems and practice**

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exercises, Microelectronic Circuits is the most current resource available for teaching tomorrow's engineers how to analyze and design electronic circuits.

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This introductory book assumes minimal knowledge of the existence of integrated circuits and of the terminal behavior of electronic components such as resistors, diodes, and

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MOS and bipolar transistors. It presents to readers the basic information necessary for more advanced processing and design books. Focuses mainly on the basic

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**processes used in
fabrication, including
lithography, oxidation,
diffusion, ion
implementation, and thin
film deposition. Covers
interconnection technology,**

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**packaging, and yield.
Appropriate for readers
interested in the area of
fabrication of solid state
devices and integrated
circuits.
The process of designing**

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lenses is both an art and a science. While advancements in the field over the past two centuries have done much to transform it from the former category to the

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latter, much of the lens design process remains encapsulated in the experience and knowledge of industry veterans. This Field Guide provides a working reference for

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**practicing physicists,
engineers, and scientists
for deciphering the nuances
of basic lens design. The
book begins with an outline
of the general process
before delving into**

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aberrations, basic lens design forms, and optimization. An entire section is devoted to techniques for improving lens performance. Sections on tolerancing, stray light,

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and optical systems are followed by an appendix covering related topics such as optical materials, nonimaging concepts, designing for sampled imaging, and ray tracing

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fundamentals.

Of all the new technologies that have evolved recently, integrated circuit technology is the one that continues to experience phenomenal growth. The

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vast amount of material arising from innovative circuit designs and newer device technologies requires that the circuit analysis aspects of digital electronics be covered in a

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first course, separate from device design and chip layout. Consequently, Introduction to Digital Microelectronic Circuits emphasizes the analysis and performance

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comparison of different gate-level logic circuits and presents design examples based on logic-level requirements. It provides an introduction to the analysis of digital

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**electronic circuits using
discrete and integrated
circuits.**

**In many cases, new
designers of electronic
circuits blindly search for
ways to improve the design**

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itself using a brute-force, hit-and-miss approach. The intention of this book is to avoid this pitfall by teaching readers what not to do with SPICE. This is accomplished by keying

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each example in this text to those presented in Sedra and Smith's Microelectronic Circuits 3/E, where a complete hand analysis is provided.

This book presents the

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basic concepts used in the design and analysis of digital systems and introduces the principles of digital computer organization and design.
[Circuit Analysis and Design](#)

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**Microelectronic Devices and
Circuits**

Reinforced Concrete

Mechanics of Fluids

Fundamentals Of

Microelectronics

Digital Integrated Circuits

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A Systems Approach

Introduction to Geography

*Introduction to Geography:
People, Places, & Environment,
Fifth Edition emphasizes that
what happens in places depends
increasingly on what happens*

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among places--and that mapped patterns can be understood only by recognizing the movement that creates and continuously rearranges them. The authors emphasize the integration of various aspects of geographic

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processes and systems by discussing what happens in one set of geographic processes and how that affects others. For example, what happens in economic systems affects environmental conditions; what

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happens to climate affects political dynamics. In this text, the major tools, techniques, and methodological approaches of the discipline of geography are introduced.

Mark, a retired boomer with a

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powerful survivalist streak, manages to avoid contamination from the deadly NOEL virus, released worldwide by terrorists on Christmas Eve. Within 3 days, 99.9% of the world's population succumbs. He decides to bug-

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out in his survival-prepared, live-aboard trawler to Boca Chita Key, an uninhabited island seventeen miles from Miami, where he uses his wits, resilience and mechanical know-how to homestead as a self-

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sufficient hermit. Access to unlimited fuel will guarantee his freedom to travel, and power the air-conditioning, laundry, hot water heater and freezer. He quickly learns the essential secret of harvesting diesel from

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marina pumps using his portable Honda generator. In a vastly changed world, Mark faces his first challenging year with only the companionship of a shipwrecked survivor, his dog Shadow. In his Journal, he

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reflects on preparing for life aboard, watching the weather, harvesting the gifts of the sea, and nurturing the miracle of a kitchen garden. His encounters with a variety of animals and a handful of survivors succeed

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with the help of a salvaged Coast Guard Defender Class quick-response boat, a sawed-off 12-gauge pump Decksweeper shotgun, a stun-gun disguised as a camera, and some creative chemistry. He records a

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prepper's perspective on hot-wiring boats & cars, breaking & entering, false imprisonment and misdemeanor manslaughter. But Mark's Journal also celebrates the mundane: bicycling, baking bread, doing laundry, and fitting-

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out, running, and maintaining his boats, island repairs and improvements. In the months following NOEL, South Florida and the Keys suffer a series of natural catastrophes including a deep freeze, drought,

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uncontrolled wildfires in the Everglades, two hurricanes, and Lake Okeechobee breaching its dike, inundating South Florida. The first anniversary of the terrorist attack closes with a gathering of a small band of

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immune survivors, setting the stage for the creation of the community of New Islandia. Boca Chita tracks a careful and thoughtful man achieving equipoise as custodian of his "green" island hideaway,

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overcoming isolation, and taking the next steps. It is the first book of the NOEL trilogy, which includes Calusa Coast and The First Coast.

CD-ROM contains:

Demonstration exercises --

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Complete solutions -- Problem statements.

For graduate and executive level MIS students, and practicing IS managers. A thorough and practical guide to IT management practices and issues. Managing

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Information Technology provides comprehensive coverage of IS management practices and technology trends for advanced students and managers. Through an approach that offers up-to-date chapter content and full-

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length case studies, this text presents a unique set of materials that educators can customize to their students' needs. The sixth edition has been thoroughly updated and streamlined to reflect current IS

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practices.

Combining solid state devices with electronic circuits for an introductory-level microelectronics course, this textbook offers an integrated approach so that students can

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truly understand how a circuit works. A concise writing style is employed, with the right level of detail and physics to help students understand how a device works. Other features include an emphasis on

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*modelling of electronic devices,
and analysis of non-linear
circuits. Spice problems, worked
examples and end-of-chapter
problems are included.
Now revised with a stronger
emphasis on applications and*

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more problems, this new Fourth Edition gives readers the opportunity to analyze, design, and evaluate linear circuits right from the start. The book's abundance of design examples, problems, and applications,

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*promote creative skills and show how to choose the best design from several competing solutions. * Laplace first. The text's early introduction to Laplace transforms saves time spent on transitional circuit*

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analysis techniques that will be superseded later on. Laplace transforms are used to explain all of the important dynamic circuit concepts, such as zero state and zero-input responses, impulse and step responses,

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convolution, frequency response, and Bode plots, and analog filter design. This approach provides students with a solid foundation for follow-up courses.

[Boca Chita](#)

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[*Digital Logic and Computer Design*](#)

[*International edition*](#)

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[Fundamentals of Electric Circuits](#)

[Laplace Early](#)

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This book highlights key design issues and challenges to guarantee the development of

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successful applications of analog circuits.

Researchers around the world share acquired experience and insights to develop advances in analog circuit design, modeling

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and simulation. The key contributions of the sixteen chapters focus on recent advances in analog circuits to accomplish academic or industrial target specifications.

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This book is intended for a course that combines machinery and power systems into one semester. It is designed to be flexible and to allow instructors to choose

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chapters a la carte, so the instructor controls the emphasis. The text gives students the information they need to become real-world engineers, focusing on

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principles and teaching how to use information as opposed to doing a lot of calculations that would rarely be done by a practising engineer. The author compresses the

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material by focusing on its essence, underlying principles. MATLAB is used throughout the book in examples and problems. A textbook for third and fourth year students in

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all electrical and
computer engineering
departments taking
electronic circuit
courses. . Every chapter
features a design problem
that tests the problem-

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solving skills employed by
real engineering.

Praised for its highly
accessible, real-world
approach, the Sixth
Edition demonstrates how
the analysis and design of

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electric circuits are inseparably intertwined with the ability of the engineer to design complex electronic, communication, computer, and control systems as well as

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consumer products. The book offers numerous design problems and MATLAB examples, and focuses on the circuits that we encounter everyday. It contains a new integration

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of interactive examples and problem solving, which helps readers understand circuit analysis concepts in an interactive way. CD-ROM offers exercises, interactive illustrations,

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and a circuit design lab
that allows users to
experiment with different
circuits. · Electric
Circuit Variables ·
Circuit Elements ·
Resistive Circuits ·

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Methods of Analysis of
Resistive Circuits ·
Circuit Theorems · The
Operational Amplifier ·
Energy Storage Elements ·
The Complete Response of
RL and RC Circuits · The

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Complete Response of
Circuits with Two Energy
Storage Elements ·
Sinusoidal Steady-State
Analysis · AC Steady-State
Power · Three-Phase
Circuits · Frequency

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Response · The Laplace
Transform · Fourier Series
and Fourier Transform ·
Filter Circuits · Two-Port
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This is a comprehensive,
accessible text that

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covers the basic principles of Medical Physiology. It is completely up-to-date and includes information on the latest findings in physiology. The text has

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been beautifully designed and illustrated, and chapters present information in an easy-to-follow and logical style. First Published in 2010. Routledge is an imprint of

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Where To Download Microelectronic Circuits Solution Manual 6th Linear Circuits

Microelectronic Circuit Design

This junior level electronics text provides a foundation for analyzing and designing analog and digital electronics throughout the book.

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Extensive pedagogical features including numerous design examples, problem solving technique sections, Test Your Understanding questions, and chapter checkpoints lend to this classic text. The author, Don

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Neamen, has many years experience as an Engineering Educator. His experience shines through each chapter of the book, rich with realistic examples and practical rules of thumb. The Third Edition continues to offer the same

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of the chapter are then presented in the Preview section and then are listed in bullet form for easy reference. Test Your Understanding Exercise Problems with provided answers have all been updated. Design Applications are included at

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the end of chapters. A specific electronic design related to that chapter is presented. The various stages in the design of an electronic thermometer are explained throughout the text. Specific Design Problems and

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Examples are highlighted throughout as well.

Designed to accompany Microelectronic Circuits, Eighth Edition, by Adel S. Sedra, K. C. Smith, Tony Chan Carusone and Vincent Gaudet, Laboratory

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Explorations invites students to explore the realm of real-world engineering through practical, hands-on experimentation. Taking a learning-by-doing approach, it presents labs that focus on the development of practical

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a clear manner, with many practical applications. It demonstrates the principles, carefully explaining each step.

Contains the most extensive coverage of digital integrated circuits available in a single source.

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Provides complete qualitative descriptions of circuit operation followed by in-depth analytical analyses and spice simulations. The circuit families described in detail are transistor-transistor logic (TTL, STTL, and ASTTL), emitter-

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coupled logic (ECL), NMOS logic, CMOS logic, dynamic CMOS, BiCMOS structures and various GASFET technologies. In addition to detailed presentation of the basic inverter circuits for each digital logic family, complete details of other

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logic circuits for these families are presented.

Microelectronic Circuits by Sedra and Smith has served generations of electrical and computer engineering students as the best and most widely-used text for this

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circuit analysis to circuit design, developing design skills and insights that are essential to successful practice in the field. Significantly revised with the input of two new coauthors, slimmed down, and updated with the latest

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innovations, Microelectronic Circuits, Eighth Edition, remains the gold standard in providing the most comprehensive, flexible, accurate, and design-oriented treatment of electronic circuits available today.

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intuitive understanding of the subject, Microelectronics teaches them to think like engineers. The second edition of Razavi ' s Microelectronics retains its hallmark emphasis on analysis by inspection and building students ' design intuition, and it incorporates a host of new pedagogical features that

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make it easier to teach and learn from, including: application sidebars, self-check problems with answers, simulation problems with SPICE and MULTISIM, and an expanded problem set that is organized by degree of difficulty and more clearly associated with specific chapter sections.

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As the availability of powerful computer resources has grown over the last three decades, the art of computation of electromagnetic (EM) problems has also grown - exponentially. Despite this dramatic growth, however, the EM community lacked a comprehensive text on the

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computational techniques used to solve EM problems. The first edition of Numerical Techniques in Electromagnetics filled that gap and became the reference of choice for thousands of engineers, researchers, and students. The Second Edition of this bestselling text reflects the

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continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years. Most notable among these are the improvements made to the standard algorithm for the finite difference time domain (FDTD) method and treatment

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of absorbing boundary conditions in FDTD, finite element, and transmission-line-matrix methods. The author also added a chapter on the method of lines. Numerical Techniques in Electromagnetics continues to teach readers how to pose, numerically analyze, and solve

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EM problems, give them the ability to expand their problem-solving skills using a variety of methods, and prepare them for research in electromagnetism. Now the Second Edition goes even further toward providing a comprehensive resource that addresses all of the most useful

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computation methods for EM problems.

Now reflecting the new 2008 ACI 318-08 Code and the new International Building Code (IBC-2006), this cutting-edge text has been extensively revised to present state-of-the-art developments in

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reinforced concrete. The text analyzes the design of reinforced concrete members through a unique and practical step-by-step trial and adjustment procedure. It is supplemented with flowcharts that guide readers logically through key features and underlying theory.

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Hundreds of photos of tests to failure of concrete elements help readers visualize this behavior. Ideal for practicing engineers who need to contend with the new revisions of the ACI, IBC, and AASHTO Codes. Microelectronic Circuit Design is known for being a technically excellent text.

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The new edition has been revised to make the material more motivating and accessible to students while retaining a student-friendly approach. Jaeger has added more pedagogy and an emphasis on design through the use of design examples and design notes. Some pedagogical

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elements include chapter opening vignettes, chapter objectives, "Electronics in Action" boxes, a problem solving methodology, and "design note" boxes. The number of examples, including new design examples, has been increased, giving students more opportunity to see

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problems worked out.

Additionally, some of the less fundamental mathematical material has been moved to the ARIS website. In addition this edition comes with a Homework Management System called ARIS, which includes 450 static problems.

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MECHANICS OF FLUIDS presents fluid mechanics in a manner that helps students gain both an understanding of, and an ability to analyze the important phenomena encountered by practicing engineers. The authors succeed in this through the use of several pedagogical tools that help

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students visualize the many difficult-to-understand phenomena of fluid mechanics. Explanations are based on basic physical concepts as well as mathematics which are accessible to undergraduate engineering students. This fourth edition includes a Multimedia Fluid Mechanics DVD-

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ROM which harnesses the interactivity of multimedia to improve the teaching and learning of fluid mechanics by illustrating fundamental phenomena and conveying fascinating fluid flows. Important Notice: Media content referenced within the product description or the product text may not

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be available in the ebook version.

This market-leading textbook continues its standard of excellence and innovation built on the solid pedagogical foundation that instructors expect from Adel S. Sedra and Kenneth C. Smith. All material in the international sixth edition of

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Microelectronic Circuits is thoroughly updated to reflect changes in technology-CMOS technology in particular. These technological changes have shaped the book's organization and topical coverage, making it the most current resource available for teaching tomorrow's

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engineers how to analyze and design electronic circuits. In addition, end-of-chapter problems unique to this version of the text help preserve the integrity of instructor assignments.

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