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Engineering By David Irwin

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**With practically-oriented
coverage of all the basic**

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concepts in electrical engineering, this text is a general introduction to the field. It integrates conceptual discussions with current, relevant technological applications,

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presenting modularized coverage of a wide range of topics. In addition, it aims to offer strong pedagogical support and clear explanations.

Quantum Mechanics: An

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**Introduction for Device
Physicists and Electrical
Engineers, Third Edition
provides a complete course
in quantum mechanics for
students of semiconductor
device physics and electrical**

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engineering. It provides the necessary background to quantum theory for those starting work on micro- and nanoelectronic structures and is particularly useful for those beginning work with

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modern semiconductors devices, lasers, and qubits. This book was developed from a course the author has taught for many years with a style and order of presentation of material

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specifically designed for this audience. It introduces the main concepts of quantum mechanics which are important in everyday solid-state physics and electronics. Each topic

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includes examples which have been carefully chosen to draw upon relevant experimental research. It also includes problems with solutions to test understanding of theory.

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Full updated throughout, the third edition contains the latest developments, experiments, and device concepts, in addition to three fully revised chapters on operators and

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expectations and spin angular momentum, it contains completely new material on superconducting devices and approaches to quantum computing.

In today's world, there's an

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electronic gadget for everything and inside these gadgets are circuits, little components wired together to perform some meaningful function. Have you wondered how a led display

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sign works or how a calculator works or toy cars work? How is it possible All because of electrical circuits. These tiny components when arranged in certain manner can do

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wonders. Fascinating isn't it? Our fascination with gadgets and reliance on machinery is only growing day by day and hence from an engineering perspective, it is absolutely crucial to be

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familiar with the analysis and designing of such Circuits, at the very least one should be able to identify components. Circuit analysis is one of basic subjects in engineering and

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particularly important for Electrical and Electronics students. So circuit analysis is a good starting point for anyone wanting to get into the field. It is a very easy subject to learn and

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understand, but for this reason most of us end up taking the subject lightly and therefore misunderstand many key ideas. This will lead to a lot of headache in other

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subjects. In this book we provide a concise introduction into basic Circuit analysis. A basic knowledge of Calculus and some Physics are the only prerequisites required to

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follow the topics discussed in the book. We've tried to explain the various fundamental concepts of Circuit theory in the simplest manner without an over reliance on math. Also,

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we have tried to connect the various topics with real life situations wherever possible. This way even first timers can learn the basics of Circuit theory with minimum effort. Hopefully

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the students will enjoy this different approach to Circuit Analysis. The various concepts of the subject are arranged logically and explained in a simple reader-friendly language with

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illustrative figures. We have covered basic topics extensively and given an introduction to advanced topics like s- domain analysis. This book will hopefully serve as

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**inspiration to learn Circuit
theory, and in turn Electrical
engineering in greater
depths.**

**Register - University of
California**

Basic Electric Circuit

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Analysis

**Pearson New International
Edition**

**Basic Electrical Engineering;
Circuits, Machines,
Electronics, Control [by] A.
E. Fitzgerald [and] David E.**

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Higginbotham

Wind Energy Handbook

Market_Desc: · Computer Engineers · Electrical Engineers · Electrical and Computer Engineering Students Special Features: ·

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Uses real-world examples to demonstrate the usefulness of the material. Integrates MATLAB throughout the book and includes special icons to identify sections where CAD tools are used and discussed.

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Offers expanded and redesigned Problem-Solving Strategies sections to improve clarity. Includes a new Chapter on Op-Amps that gives readers a deeper explanation of theory. The text's

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pedagogical structure has been revised to enhance learning About The Book: Irwin's Basic Engineering Circuit Analysis has built a solid reputation for its highly accessible presentation, clear

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explanations, and extensive array of helpful learning aids. The eighth edition, has been fine-tuned and revised, making it more effective and even easier to use. It covers such topics as resistive circuits,

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nodal and loop analysis techniques, capacitance and inductance, AC steady-state analysis, polyphase circuits, the Laplace transform, two-port networks, and much more.

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The perfect introduction to psychology, this title covers every major subject of psychology and every methodology. Including helpful diagrams, summary sections, ideas for further

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reading and questions to consider, you will soon be able to understand the differences between Freud and Jung, its relationship to neuroscience and physiology, and how psychology is used

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in our everyday lives.

From traditional topics that form the core of industrial electronics, to new and emerging concepts and technologies, The Industrial Electronics Handbook, in a

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single volume, has the field covered. Nowhere else will you find so much information on so many major topics in the field. For facts you need every day, and for discussions on topics you have only dreamed

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of, The Industrial Electronics Handbook is an ideal reference.

Basic Electrical Engineering;
[by] A.E. Fitzgerald, David E.
Higginbotham, Arvin Grabel,
3rd Ed

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Psychology

Basic Engineering Circuit Analysis, 11th Edition

Microwave Engineering

BASIC ENGINEERING CIRCUIT ANALYSIS, 8TH ED

Fundamentals of Electric Circuits, Seventh

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Edition provides a comprehensive introduction for students taking their first course in electric circuits at the college level. Assuming no previous knowledge, the text begins with explanations of basic concepts, then progresses through simple resistive circuit calculations to complex ac network analysis techniques. Students are

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also taught practical skills, including how to use common electrical instruments.

Straightforward, informatively captioned illustrations demonstrate and clarify each new concept and analysis method.

Learning is reinforced with an array of calculation examples, review questions, and problem sets. This text has everything

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to give students a solid foundation in the full spectrum of electric circuit topics.

As environmental concerns have focused attention on the generation of electricity from clean and renewable sources wind energy has become the world's fastest growing energy source. The Wind Energy Handbook draws on the authors' collective

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industrial and academic experience to highlight the interdisciplinary nature of wind energy research and provide a comprehensive treatment of wind energy for electricity generation. Features include: An authoritative overview of wind turbine technology and wind farm design and development In-depth

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examination of the aerodynamics and performance of land-based horizontal axis wind turbines A survey of alternative machine architectures and an introduction to the design of the key components Description of the wind resource in terms of wind speed frequency distribution and the structure of turbulence Coverage of

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site wind speed prediction techniques
Discussions of wind farm siting
constraints and the assessment of
environmental impact The integration of
wind farms into the electrical power
system, including power quality and
system stability Functions of wind turbine
controllers and design and analysis

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techniques With coverage ranging from practical concerns about component design to the economic importance of sustainable power sources, the Wind Energy Handbook will be an asset to engineers, turbine designers, wind energy consultants and graduate engineering students.

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This textbook takes a unified view of the fundamentals of wireless communication and explains cutting-edge concepts in a simple and intuitive way. An abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers.

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Basic Engineering Circuit Analysis +
Wileyplus

Fundamentals of Electric Circuits

Electrical Engineering | Step by Step

Circuit Analysis for Complete Idiots

A Degree in a Book: Philosophy

*This reader-friendly book has been
completely revised to ensure that*

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the learning experience is enhanced. It is built on the strength of Irwin's problem-solving methodology, providing readers with a strong foundation as they advance in the field.

"To understand the system of units

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and standard prefixes used throughout the text -To review the fundamental building blocks, e.g. charge, current, voltage, and power -To learn the definition and symbols employed to describe the sources, both independent and dependent,

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*that represent the forcing functions for electric circuits -To present Tellegen's theorem and describe its usefulness in circuit analysis."--
Circuit analysis is the fundamental gateway course for computer and electrical engineering majors. Basic*

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Engineering Circuit Analysis has long been regarded as the most dependable textbook. Irwin and Nelms has long been known for providing the best supported learning for students otherwise intimidated by the subject matter. In

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this new 11th edition, Irwin and Nelms continue to develop the most complete set of pedagogical tools available and thus provide the highest level of support for students entering into this complex subject. Irwin and Nelms' trademark

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student-centered learning design focuses on helping students complete the connection between theory and practice. Key concepts are explained clearly and illustrated by detailed worked examples. These are then followed by

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Learning Assessments, which allow students to work similar problems and check their results against the answers provided. The WileyPLUS course contains tutorial videos that show solutions to the Learning Assessments in detail, and also

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includes a robust set of algorithmic problems at a wide range of difficulty levels. WileyPLUS sold separately from text.

The Industrial Electronics Handbook

Basic Engineering Circuit Analysis,

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VitalSource with WileyPLUS
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*Electrical Engineering Applications
with the TI-89*

*Circuits, Devices, and Applications
Circuits, Machines, Electronics,*

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Control

Very Good, No Highlights or Markup, all pages are intact.

Basic Engineering Circuit

Analysis has long been regarded as the most dependable textbook for computer and electrical

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engineering majors. In this new edition, Irwin and Nelms continue to develop the most complete set of pedagogical tools available and provide the highest level of support for students entering into this complex subject. Irwin and

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Nelms trademark student-centered learning design focuses on helping students complete the connection between theory and practice. Key concepts are explained clearly and illustrated by detailed, worked examples.

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These are then followed by Learning Assessments, which allow students to work similar problems and check their results against the answers provided.

"Basic Engineering Circuit Analysis, Ninth Edition"

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maintains its student friendly, accessible approach to circuit analysis and now includes even more features to engage and motivate students. In addition to brand new exciting chapter openers, all new accompanying

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photos are included to help engage visual learners. This revision introduces completely re-done figures with color coding to significantly improve student comprehension and FE exam problems at the ends of chapters

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for student practice. The text continues to provide a strong problem-solving approach along with a large variety of problems and examples.

Answers to Problems in Basic Electrical Engineering ...

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Electronics Fundamentals
Fundamentals of Engineering
Electromagnetics
Circuits, Electronics, Machines,
Control
Basic Engineering Circuit
Analysis

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Fundamental of Engineering Electromagnetics not only presents the fundamentals of electromagnetism in a concise and logical manner, but also includes a variety of interesting and important applications. While adapted from his popular and more extensive work,

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Field and Wave Electromagnetics, this text incorporates a number of innovative pedagogical features. Each chapter begins with an overview which serves to offer qualitative guidance to the subject matter and motivate the student. Review questions and worked examples

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throughout each chapter reinforce the student's understanding of the material. Remarks boxes following the review questions and margin notes throughout the book serve as additional pedagogical aids.

A perfect introduction for students and laypeople alike, A Degree in a

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Book: Philosophy provides you with all the concepts you need to understand the fundamental issues. Filled with helpful diagrams, suggestions for further reading, and easily digestible features on the history of philosophy, this book makes learning the subject easier

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than ever. Including ideas from Aristotle and Zeno to Descartes and Wittgenstein, it covers the whole range of western thought. By the time you finish reading this book, you will be able to answer questions like:

- What is truth?
- What can I really know?
- How can I live a moral life?
-

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Do I have free will?

Circuit analysis is the fundamental gateway course for computer and electrical engineering majors.

Engineering Circuit Analysis has long been regarded as the most dependable textbook. Irwin and Nelms has long been known for

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providing the best supported learning for students otherwise intimidated by the subject matter. In this new 11th edition, Irwin and Nelms continue to develop the most complete set of pedagogical tools available and thus provide the highest level of support for students entering into this

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complex subject. Irwin and Nelms' trademark student-centered learning design focuses on helping students complete the connection between theory and practice. Key concepts are explained clearly and illustrated by detailed worked examples. These are then followed by Learning

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Assessments, which allow students to work similar problems and check their results against the answers provided. The WileyPLUS course contains tutorial videos that show solutions to the Learning Assessments in detail, and also includes a robust set of algorithmic

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problems at a wide range of difficulty levels. WileyPLUS sold separately from text.

Solutions Manual to Accompany Basic Electrical Engineering, 2nd Edition
Basic Electrical Engineering
Engineering Circuit Analysis
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subject. Detailed examples are used to demonstrate the key concepts.

Learning Assessment sections within the textbook give students the chance to solve problems that are similar to the worked examples. The WileyPLUS content for this course includes a robust set of algorithmic problems at a

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wide range of difficulty levels.

Are you looking for a simple and understandable introduction to the basics of electrical engineering and electronics? Then you are well advised with this book! As an engineer (M.Eng.) I would like to teach you the basics of electrical engineering and

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electronics. In summary, this book offers you an easy to understand, intuitively structured and practical introduction to the world of electrical engineering! What is current and what is voltage? What is charge? What is power, what is 1 kWh? How does an electric motor work? What is the

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difference between direct current and alternating current? This electrical engineering handbook not only answers these questions, but also covers many other topics in depth and detail. In addition, in this compact beginner's guide, you will quickly and easily learn the functions as well as

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the application of important electronic components such as resistors, diodes, transistors, capacitors and much more. This book offers you a comprehensive yet compact introduction to the basics of electrical engineering and electronics! In addition to important basic terms and principles, you will

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also learn, for example, how to analyze circuits (Kirchhoff's rules), what a bipolar transistor is, what a MOSFET is, and how a RLC circuit is designed. We will also look at what happens when you place an inductor in a magnetic field and what practical applications these basic principles

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have in our modern world. We will also do some calculations together and we will learn the mathematical equations behind the basic principles of electrical engineering in each chapter. However, depending on how deep you want to go into the material, you can also just take note of them. This fundamentals

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book is aimed specifically at anyone who has no prior knowledge of electrical and electronic engineering, or who already has some knowledge but is looking for a practical and understandable guide to electrical engineering. No matter what age you are, what profession you have,

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whether you are a pupil, student or pensioner. This book is for anyone who wants or needs to learn about electrical engineering and electronics. The aim of this book is to introduce you to how electrical engineering accompanies us in everyday life and the basic principles involved. In

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addition, you will learn the basics of direct current technology and alternating current technology, their theoretical backgrounds and much more! Develop a basic understanding of electrical engineering and electronics in no time! Therefore, do not hesitate any longer, best take a

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look at the book and get your copy home as an ebook or paperback!

Briefly summarized, you will learn the following in detail in this course: -

Basic concepts and basic quantities of electrical engineering - How to analyze and solve electrical engineering circuits - Ohm's law, Ampere's law and

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Farady's law - Components such as resistor, diode (e.g. LED), transistor, capacitor, transformer, ..., and how they work and what they are used for -
The difference between direct current and alternating current, as well as single-phase and multi-phase systems
- How does electricity get into the

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house? Getting to know the power supply system - Direct current and alternating current motors and their structure / mode of operation - Outlook: Renewable energies such as photovoltaics and wind power - and much more! Take a look at the book and get your copy as an ebook or

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DC Circuit analysis - Transient circuit analysis - Power engineering - Convolution - Vectors - Vector calculus - Electromagnetics - Transmission lines - Antennas.

Basic Electrical Engineering; Circuits, Electronics, Machines, Control [by]

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A.E. Fitzgerald, David E.
Higginbotham [and] Arvin Grabel
Introduction to Electrical Engineering
Quantum Mechanics
Circuits, Electronics, Machines,
Controls
Basic Electrical Engineering ... Second
Edition [of the Work by A.E.

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Fitzgerald].

This text provides optional computer analysis exercises in selected examples, troubleshooting sections, & applications assignments. It gives comprehensive coverage & limits

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maths to what's needed for understanding electric circuits fundamentals.

Basic Engineering Circuit

Analysis John Wiley & Sons

Real-world engineering problems are rarely, if ever, neatly divided

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into mechanical, electrical, chemical, civil, and other categories. Engineers from all disciplines eventually encounter computer and electronic controls and instrumentation, which require at least a basic knowledge of

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electrical and other engineering specialties, as well as associated economics, and environmental, political, and social issues. Co-authored by Charles Gross—one of the most well-known and respected professors in the field of electric

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machines and power engineering—and his world-renowned colleague Thad Roppel, *Fundamentals of Electrical Engineering* provides an overview of the profession for engineering professionals and students whose

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specialization lies in areas other than electrical. For instance, civil engineers must contend with commercial electrical service and lighting design issues. Mechanical engineers have to deal with motors in HVAC applications, and chemical

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engineers are forced to handle problems involving process control. Simple and easy-to-use, yet more than sufficient in rigor and coverage of fundamental concepts, this resource teaches EE fundamentals but omits the typical analytical

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methods that hold little relevance for the audience. The authors provide many examples to illustrate concepts, as well as homework problems to help readers understand and apply presented material. In many cases, courses

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for non-electrical engineers, or non-EEs, have presented watered-down classical EE material, resulting in unpopular courses that students hate and senior faculty members understandingly avoid teaching. To remedy this situation—and create

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more well-rounded practitioners—the authors focus on the true EE needs of non-EEs, as determined through their own teaching experience, as well as significant input from non-EE faculty. The book provides several

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important contemporary interdisciplinary examples to support this approach. The result is a full-color modern narrative that bridges the various EE and non-EE curricula and serves as a truly relevant course that students and

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faculty can both enjoy.

Selected Chapters for University of Wisconsin Milwaukee

Fundamentals of Wireless Communication
A Degree in a Book

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An Introduction for Device Physicists and Electrical Engineers

Pozar's new edition of Microwave Engineering includes more material on active circuits, noise, nonlinear effects, and wireless systems. Chapters on noise and nonlinear distortion, and

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active devices have been added along with the coverage of noise and more material on intermodulation distortion and related nonlinear effects. On active devices, there's more updated material on bipolar junction and field effect transistors. New and updated material

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on wireless communications systems, including link budget, link margin, digital modulation methods, and bit error rates is also part of the new edition. Other new material includes a section on transients on transmission lines, the theory of power waves, a

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discussion of higher order modes and frequency effects for microstrip line, and a discussion of how to determine unloaded.

Fundamentals of Electrical Engineering
Basics, Components & Circuits
Explained for Beginners

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