

**Access Free Circuits 2nd
Edition Ulaby Maharbiz**

Circuits 2nd
Edition Ulaby
Maharbiz

Special Features *Computer-based
exercises and homework problems --

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unique to this text and comprising 25% of the total number of problems -- encourage students to address realistic and challenging problems, experiment with what if scenarios, and easily obtain graphical outputs. Problems are designed to progressively enhance MATLAB-use proficiency, so students need not be

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familiar with MATLAB at the start of your course. Program scripts that are answers to exercises in the text are available at no charge in electronic form (see Teaching Resources below).

*Supplement and Review Mini-Chapters after each of the text's three parts contain an extensive review list of terms, test-like

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problem sets with answers, and detailed suggestions on supplemental reading to reinforce students' learning and help them prepare for exams. *Read-Only Chapters, strategically placed to provide a change of pace during the course, provide informative, yet enjoyable reading for students. *Measurement Details and

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Results samples offer students a realistic perspective on the seldom-perfect nature of device characteristics, contrary to the way they are often represented in introductory texts. Content Highlig
A self-contained guide to the Physics GRE, reviewing all of the topics covered alongside three practice exams with fully

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worked solutions.

Taryn has been friends with her next-door neighbor Jeff forever, but their friendship begins to change when they start sixth grade, in this story told from both Taryn and Jeff's point of view.

Solid State Physics: Essential Concepts
System Dynamics

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Circuit Analysis and Design

Electromagnetics

Electronics Fundamentals

"The book may be visualized as having three major sections. The first, encompassing the first three chapters, is an introduction to the

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engineering profession. Chapter 1 provides information on engineering disciplines and functions. If a formal orientation course is given separately, Chapter 1 can be simply a reading assignment and the basis for

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students to investigate disciplines of interest. Chapter 2 outlines the course of study and preparation for an engineering work environment. Interdisciplinary projects, teaming, and ethics are discussed. Chapter 3 is an introduction to the design

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process. If time permits, this material can be supplemented with case studies and your personal experiences to provide an interesting and motivating look at engineering"--

Includes textbook CD-ROM

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*"Engineering Signals and Systems
Textbook Resources"*

*For junior-level courses in System
Dynamics, offered in Mechanical
Engineering and Aerospace
Engineering departments. This text
presents students with the basic*

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theory and practice of system dynamics. It introduces the modeling of dynamic systems and response analysis of these systems, with an introduction to the analysis and design of control systems.

Pearson New International Edition

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*Global Governance and the
Emergence of Global Institutions
for the 21st Century*

*Bought: Destitute yet Defiant
Theory and Applications*

*Analog Integrated Circuit Design
The 2nd Edition of Analog*

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Integrated Circuit Design focuses on more coverage about several types of circuits that have increased in importance in the past decade. Furthermore, the text is enhanced with

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material on CMOS IC device modeling, updated processing layout and expanded coverage to reflect technical innovations. CMOS devices and circuits have more influence in this

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edition as well as a reduced amount of text on BiCMOS and bipolar information. New chapters include topics on frequency response of analog ICs and basic theory of feedback amplifiers.

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"Electromagnetics is by no means an easy subject to grasp. Teaching materials in the discipline must be carefully prepared and organized to help guide students to success. Not only

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should such materials offer comprehensive mathematics and strong physical insights, they should also present alternative ways of viewing and formulating problems.
"Electromagnetics" is

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***wonderfully unique in its
approach. With thorough
examples, summary tables,
figures, alternative
formulations, and homework
problems, this volume takes
the electromagnetics***

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***student step-by-step through
the intricacies of the
subject, and builds up
comprehension and
application gradually.
Examples are used to
delineate a basic approach***

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and to guide students from start to solution through complex problems. Special cases are considered to draw analogies, and to offer physical insights and interpretations. Finally, the

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book s large problem set enables instructors to teach the course for several years without repeating problem assignments. During their many years of teaching electromagnetics, Adams

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and Lee became interested in the discipline's historical aspects and found it useful to incorporate stories of the basic discoveries into the classroom. This book explores such rarely covered

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***aspects of the subject.
Included is a fascinating
account of what Michael
Faraday did when
unexpected events occurred.
With its lively description,
this book helps students to***

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*imagine themselves taking
the same steps as Faraday.
Jay Kyoon Lee (Ph.D.,
Massachusetts Institute of
Technology) is a Professor of
Electrical Engineering and
Computer Science at*

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***Syracuse University, where
he teaches
Electromagnetics, among
other courses. His current
research interests are
electromagnetic theory,
microwave remote sensing,***

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***waves in anisotropic media,
antennas and propagation.
He was a Research Fellow at
Naval Air Development
Center, Rome Air
Development Center and
Naval Research Laboratory***

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***and was an Invited Visiting
Professor at Seoul National
University in Seoul, Korea.
He has received the Eta
Kappa Nu Outstanding
Undergraduate Teacher
Award (1999), the IEEE***

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***Third Millennium Medal
(2000), and the College
Educator of the Year Award
from the Technology
Alliance of Central New York
(2002). Arlon T. Adams
(Ph.D., University of***

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Michigan) was a professor emeritus in the Department of Electrical and Computer Engineering at Syracuse University, where he taught and conducted research in electromagnetics for many

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years, focusing on antennas and microwaves. He served as electronics officer in the U. S. Navy and worked as an engineer for the Sperry Gyroscope Company. He was a Life Fellow of the IEEE

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from which institution he received eight prize paper and achievement awards. He was a Fulbright Scientist in Yugoslavia, a visiting scholar at Berkeley, and was general chairman of the 1988 IEEE

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***Antennas and Propagation
Society /URSI International
Symposium at Syracuse, New
York.***""

***As the availability of
powerful computer
resources has grown over***

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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

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***comprehensive text on the
computational techniques
used to solve EM problems.
The first edition of
Numerical Techniques in
Electromagnetics filled that
gap and became the***

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***reference of choice for
thousands of engineers,
researchers, and students.
The Second Edition of this
bestselling text reflects the
continuing increase in
awareness and use of***

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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

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***difference time domain
(FDTD) method and
treatment of absorbing
boundary conditions in
FDTD, finite element, and
transmission-line-matrix
methods. The author also***

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***added a chapter on the
method of lines. Numerical
Techniques in
Electromagnetics continues
to teach readers how to
pose, numerically analyze,
and solve EM problems, give***

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***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***

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*further toward providing a
comprehensive resource that
addresses all of the most
useful computation methods
for EM problems.*

*Fundamentals of Digital
Logic with VHDL Design*

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***Fundamentals of Electric
Circuits***

***A Brief Introduction to
Circuit Analysis***

***(*new file uploaded
02/19/15)***

Semiconductor Device

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Fundamentals

"Designed for a course on image processing (IP) aimed at both graduate students as well as undergraduates in their senior year, in any field of engineering, this book starts with an overview

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in Chapter 1 of how imaging sensors--from cameras to radars to MRIs and CAT--form images, and then proceeds to cover a wide array of image processing topics. The IP topics include: image interpolation,

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magnification, thumbnails, and sharpening, edge detection, noise filtering, de-blurring of blurred images, supervised and unsupervised learning, and image segmentation, among many others. As a prelude to the

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chapters focused on image processing (Chapters 3-12), the book offers in Chapter 2 a review of 1-D signals and systems, borrowed from our 2018 book Signals and Systems: Theory and Applications, by Ulaby and

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Yagle."--Preface.

***Rizzoni's Fundamentals of
Electrical Engineering provides a
solid overview of the electrical
engineering discipline that is
especially geared toward the
many non-electrical engineering***

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students who take this course. The book was developed to fit the growing trend of the Intro to EE course morphing into a briefer, less comprehensive course. The hallmark feature of this text is its liberal use of

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practical applications to illustrate important principles. The applications come from every field of engineering and feature exciting technologies. The appeal to non-engineering students are the special features

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such as Focus on Measurement sections, Focus on Methodology sections, and Make the Connections sidebars. Fundamentals of Electric Circuits continues in the spirit of its successful previous editions,

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with the objective of presenting circuit analysis in a manner that is clearer, more interesting, and easier to understand than other, more traditional texts. Students are introduced to the sound, six-step problem solving

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methodology in chapter one, and are consistently made to apply and practice these steps in practice problems and homework problems throughout the text. A balance of theory, worked & extended examples,

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practice problems, and real-world applications, combined with over 468 new or changed homework problems complete this edition. Robust media offerings, renders this text to be the most comprehensive and

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student-friendly approach to linear circuit analysis out there. This book retains the "Design a Problem" feature which helps students develop their design skills by having the student develop the question, as well as

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the solution. There are over 100 "Design a Problem" exercises integrated into problem sets in the book. McGraw-Hill Education's Connect, is also available as an optional, add on item. Connect is the only

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integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to

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assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps

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move the students' learning along if they experience difficulty.

***Circuits, Devices, and Applications
Applied Engineering Analysis
Introduction to Computing***

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Systems

***Engineering Signals and
Systems***

Cracking the Japanese Market

When Animal returns to Harlem,
he is captured by Shai Clark and
sentenced to death by the crime

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boss, only to discover that the executioner is actually his missing father, and the two band together to defeat a common enemy.

A concise introduction to circuit analysis designed to meet the needs of faculty who want to teach

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this material in a one semester course. Chapters have been carefully selected from Irwin, Basic Engineering Circuit Analysis, 7E. Applied Engineering Analysis Tai-Ran Hsu, San Jose State University, USA A resource book applying

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mathematics to solve engineering problems Applied Engineering Analysis is a concise textbook which demonstrates how to apply mathematics to solve engineering problems. It begins with an overview of engineering

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analysis and an introduction to mathematical modeling, followed by vector calculus, matrices and linear algebra, and applications of first and second order differential equations. Fourier series and Laplace transform are also

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covered, along with partial differential equations, numerical solutions to nonlinear and differential equations and an introduction to finite element analysis. The book also covers statistics with applications to

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design and statistical process controls. Drawing on the author's extensive industry and teaching experience, spanning 40 years, the book takes a pedagogical approach and includes examples, case studies and end of chapter

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problems. It is also accompanied by a website hosting a solutions manual and PowerPoint slides for instructors. Key features: Strong emphasis on deriving equations, not just solving given equations, for the solution of engineering

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problems. Examples and problems of a practical nature with illustrations to enhance student's self-learning. Numerical methods and techniques, including finite element analysis. Includes coverage of statistical methods for

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probabilistic design analysis of structures and statistical process control (SPC). Applied Engineering Analysis is a resource book for engineering students and professionals to learn how to apply the mathematics experience and

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skills that they have already acquired to their engineering profession for innovation, problem solving, and decision making.

Image Processing for Engineers
Numerical Techniques in
Electromagnetics, Second Edition

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From Bits and Gates to C/c++ &
Beyond
LabVIEW for LEGO Mindstorms NXT
Effective LabVIEW Programming
For use in an introductory circuit
analysis or circuit theory course,
this text presents circuit analysis

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in a clear manner, with many practical applications. It demonstrates the principles, carefully explaining each step. A complete and up-to-date op amp reference for electronics engineers from the most famous

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op amp guru.

FEATURES Provides a practical context for every technique, principle, and discussion which helps to understand the relationship between a set of basic physical principles and

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their application to a system with which they are familiar.

Coverage of a limited number of topics. In this way, the text concentrates on a core set of topics. Introduces topics "just in time" when they are needed for

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the digital systems theme. In this way, readers benefit by concentrating on important, immediately useful techniques rather than information they might use someday. Provides mathematical examples worked

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out in their entirety. All examples use realistic component values: kilohms, picofarads, and millihenrys rather than ohms, farads, and henrys.

Principles and Applications of
Electrical Engineering

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Electromagnetics for Engineers
The Omen
Everything You Wanted to Know
about the Science of Raising
Children but Were Too
Exhausted to Ask
Conquering the Physics GRE

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"This is a signals and systems textbook with a difference: Engineering applications of signals and systems are integrated into the presentation as equal partners with

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concepts and mathematical models, instead of just presenting the concepts and models and leaving the student to wonder how it all relates to engineering."--Preface.

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An award-winning scientist offers his unorthodox approach to childrearing: "Parentology is brilliant, jaw-droppingly funny, and full of wisdom...bound to change your thinking about

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parenting and its conventions” (Amy Chua, author of Battle Hymn of the Tiger Mother). If you’re like many parents, you might ask family and friends for advice when

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faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when

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Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific research to make the big decisions. In Parentology,

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Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health

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outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to react when their peers

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tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because

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that level of engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when

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Conley's sassy kids show him the limits of his profession. Parentology teaches you everything you need to know about the latest literature on parenting—with lessons

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that go down easy. You'll be laughing and learning at the same time.

With the proliferation of complex semiconductor devices containing digital, analog, mixed-

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signal and radio-frequency circuits, the economics of test has come to the forefront and today's engineer needs to be fluent in all four circuit types. Having access to a

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book that covers these topics will help the evolving test engineer immensely and will be an invaluable resource. In addition, the second edition includes lengthy

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discussion on RF circuits, high-speed I/Os and probabilistic reasoning. Appropriate for the junior/senior university level, this textbook includes hundreds of

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*examples, exercises and
problems.*

A Play in Three Acts

Signals and Systems

**MATHEMATICAL PHYSICS WITH
APPLICATIONS, PROBLEMS AND
SOLUTIONS.**

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*Strategies for Success in
the New Global Economy
An Introduction to Mixed-
Signal IC Test and
Measurement*

**He's scarred, sexy, and
unashamedly Sicilian... Silvio**

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Brianza dragged himself up from the slums and has the scars to show it! But no amount of money can heal the invisible scars that run deep. Scars that threaten to surface when, driven by guilt and pent-up desire, he finally

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tracks down Jessie. She's defiant, desirable, and utterly disobedient... By day, Jessie scrapes her living scrubbing floors but by night she finds her freedom singing in nightclubs. When Silvio sweeps back into

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her life and offers her an escape, Jessie knows that no amount of diamonds and designer dresses will make her forget their past. She is a survivor and now she must fight her attraction to him, or risk her heart... all over again!

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Fundamentals of Digital Logic With VHDL Design teaches the basic design techniques for logic circuits. It emphasizes the synthesis of circuits and explains how circuits are implemented in real chips.

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Fundamental concepts are illustrated by using small examples, which are easy to understand. Then, a modular approach is used to show how larger circuits are designed. VHDL is used to demonstrate

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how the basic building blocks and larger systems are defined in a hardware description language, producing designs that can be implemented with modern CAD tools. The book emphasizes the concepts that

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should be covered in an introductory course on logic design, focusing on: Logic functions, gates, and rules of Boolean algebra Circuit synthesis and optimization techniques Number

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representation and arithmetic circuits
Combinational-circuit building blocks, such as multiplexers, decoders, encoders, and code converters
Sequential-circuit building blocks, such as flip-flops,

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registers, and counters Design of synchronous sequential circuits Use of the basic building blocks in designing larger systems It also includes chapters that deal with important, but more advanced

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topics: Design of asynchronous sequential circuits Testing of logic circuits For students who have had no exposure to basic electronics, but are interested in learning a few key concepts, there is a chapter that presents

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the most basic aspects of electronic implementation of digital circuits. Major changes in the second edition of the book include new examples to clarify the presentation of fundamental concepts over 50 new examples

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of solved problems provided at the end of chapters NAND and NOR gates now introduced in Chapter 2 more complete discussion of techniques for minimization of logic functions in Chapter 4 (including the

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tabular method) a new chapter explaining the CAD flow for synthesis of logic circuits Altera's Quartus II CAD software provided on a CD-ROM three appendices that give tutorials on the use of Quartus II software

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(Note: a new file with improved images was uploaded 02/19/15)
Effective LabVIEW Programming by Thomas Bress is suitable for all beginning and intermediate LabVIEW programmers. It follows a “teach by showing,

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learn by doing” approach. It demonstrates what good LabVIEW programs look like by exploring a small set of core LabVIEW functions and common design patterns based on a project drawn from the Certified

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LabVIEW Developer exam. These patterns build on each other. They provide a firm starting point for most beginning and intermediate projects. Overall, the presentation emphasizes how to use the

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dataflow paradigm of LabVIEW to create effective programs that are readable, scalable and maintainable. The concepts presented in this book are reinforced by eleven problem sets with full solutions. This

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book will improve your fluency in LabVIEW and, in the process, will teach you how to “think” in LabVIEW. Visit <http://www.ntspress.com/publications/effective-labview-programming/> for additional online resources.

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Circuits

Animal 2

Parentology

Applied Introductory Circuit

Analysis for Electrical and

Computer Engineers

Circuit Simulation and Analysis

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The fourth edition of "Principles and Applications of Electrical Engineering" provides comprehensive coverage of the principles of electrical, electronic,

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and electromechanical engineering to non-electrical engineering majors. Building on the success of previous editions, this text focuses on relevant and

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practical applications that will appeal to all engineering students. Is there any hope for those who despair at the state of the world and the powerlessness of

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governments to find a way forward? Global Governance and the Emergence of Global Institutions for the 21st Century provides ambitious but reasonable proposals to give our

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globalized world the
institutions of
international governance
necessary to address
effectively the
catastrophic risks facing
humanity that are beyond

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national control. The solution, the authors suggest, is to extend to the international level the same principles of sensible governance that exist in well-governed

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national systems: rule of law, legislation in the common interest, an executive branch to implement such legislation, and courts to enforce it. The best

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protection is unified collective action, based on shared values and respect for diversity, to implement widely accepted international principles to advance universal human

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prosperity and well-being. This title is also available as Open Access. For courses in Electromagnetics offered in Electrical Engineering departments and Applied

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Physics. Designed specifically for a one-semester EM course covering both statics and dynamics, the book uses a number of tools to facilitate understanding

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of EM concepts and to demonstrate their relevance to modern technology. Technology Briefs provide overviews of both fundamental and sophisticated

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technologies, including the basic operation of an electromagnet in magnetic recording, the invention of the laser, and how EM laws underlie the operation of many types of

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sensors, bar code readers, GPS, communication satellites, and X-Ray tomography, among others. A CD-ROM packed with video presentations and solved problems accompanies the

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tex

Fundamentals of Electrical
Engineering

An Introduction to
Computer-Aided Circuit
Design Using PSpice
Software

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Introduction to
Probability for Data
Science
MATLAB for Engineering
Applications
Engineering Fundamentals &
Problem Solving

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This text provides optional computer analysis exercises in selected examples, troubleshooting sections, & applications assignments. It uses

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frank explanations & limits maths to only what's needed for understanding electric circuits fundamentals. Global business today is played by new rules --

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many of which are being written by the Japanese and their remarkably successful companies.

Because the Japanese are redefining business as we know it, Western

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companies expecting to profit from the new global marketplace must first learn to compete and succeed against the Japanese in Japan. James C. Morgan, Chairman of

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Applied Materials, Inc., the leading supplier of advanced processing equipment to the worldwide semiconductor industry which does about forty percent of

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its business in Japan,
and J. Jeffrey Morgan,
who has worked in Tokyo
on the "inside" at
Mitsui & Co., Japan's
oldest trading
conglomerate, contend

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that apathy and
ignorance have prevented
many Western companies
from capitalizing on the
enormous opportunities
for business in Japan.
In this brilliant

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examination of Japanese
markets, companies, and
business practices --
with special emphasis on
the establishment of
Applied Materials Japan
-- the Morgans, father

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and son, assert that success in the world of Japanese business is determined by two factors: technology and relationships. Candidly discussing their own

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mistakes and failures as well as their triumphs, the authors provide invaluable insights into the specific challenges facing Western companies in establishing a

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presence in Japan:
problems in financing
the venture, product
design and production,
marketing and
distribution, and most
important, creating long-

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term relationships or "putting on a Japanese face." The extraordinary success of Applied Materials Japan -- hailed by George Bush on the campaign trail in

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1988 as "a model for all America" -- is testimony to the valuable lessons to be learned from this book. The Morgans provide a clearly written, step-by-step

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framework for
reorienting company
thinking, revising
corporate strategy, and
revitalizing any
organization for world
class competitiveness.

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Using vivid examples of Western companies that have both succeeded admirably and failed miserably in Japan, *Cracking the Japanese Market* is a

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straightforward
examination of what it
takes to compete
successfully there --
and by extension in the
world today.

The Boy Next Door

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Loose Leaf for
Fundamentals of Electric
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