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of MATLAB for
Engineers:
International

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aeronautical, civil,
and mechanical
engineering, and
engineering
mechanics.

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exceptional visual
interpretations of
solutions, Advanced
Mechanics of
Materials and
Applied Elasticity
offers in-depth

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coverage for both students and engineers. The authors carefully balance comprehensive treatments of solid mechanics, elasticity, and computer-oriented numerical methods—preparing readers for both

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advanced study and
professional

practice in design

and analysis. This

major revision

contains many new,

fully reworked,

illustrative examples

and an updated

problem

set—including many

problems taken

directly from modern

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practice. It offers extensive content improvements

throughout,

beginning with an all-

new introductory

chapter on the

fundamentals of

materials mechanics

and elasticity.

Readers will find

new and updated

coverage of plastic

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behavior, three-dimensional Mohr's circles, energy and variational methods, materials, beams, failure criteria, fracture mechanics, compound cylinders, shrink fits, buckling of stepped columns, common shell types, and many other topics.

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The authors present significantly expanded and updated coverage of stress concentration factors and contact stress developments.

Finally, they fully introduce computer-oriented approaches in a comprehensive new chapter on the

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finite element
method.

This text is intended
for a first course in
dynamic systems
and is designed for
use by sophomore
and junior majors in
all fields of
engineering, but
principally
mechanical and
electrical engineers.

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All engineers must understand how dynamic systems work and what responses can be expected from various physical systems.

For introductory combined Statics and Mechanics of Materials courses found in ME, CE,

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Mechanics

Manual
departments. Statics
and Mechanics of
Materials provides a
comprehensive and
well-illustrated
introduction to the
theory and
application of statics
and mechanics of
materials. The text

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presents a commitment to the development of student problem-solving skills and features many pedagogical aids unique to Hibbeler texts. MasteringEngineering for Statics and Mechanics of Materials is a total learning package.

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This innovative online program emulates the instructor's office-hour environment, guiding students through engineering concepts from Statics and Mechanics of Materials with self-paced individualized coaching. Teaching

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and Learning
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experience--for you

and your students. It

provides:

Individualized

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hour environment

using self-paced

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coaching. Problem

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variety of problem

types stress

practical, realistic

situations

encountered in

professional

practice.

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photorealistic art
program is designed

to help students

visualize difficult

concepts. Review

and Student

Support: A thorough

end of chapter

review provides

students with a

concise reviewing

tool. Accuracy: The

accuracy of the text

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and problem
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solutions has been
thoroughly checked

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parties. Note: If you

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students taking

courses in

technical

communication" --

Alexander and

Sadiku's fifth

edition of

Fundamentals of

Electric Circuits

continues in the

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spirit of its
successful
previous editions,
with the objective
of presenting
circuit analysis in
a manner that is
clearer, more
interesting, and
easier to
understand than
other, more
traditional texts.

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Students are introduced to the sound, six-step problem solving methodology in chapter one, and are consistently made to apply and practice these steps in practice problems and homework problems

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throughout the
text. A balance of
theory, worked
examples and
extended
examples,
practice problems,
and real-world
applications,
combined with
over 468 new or
changed
homework

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problems for the
fifth edition and

robust media

offerings, renders

the fifth edition

the most

comprehensive

and student-

friendly approach

to linear circuit

analysis. This

edition retains the

Design a Problem

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feature which helps students develop their design skills by having the student develop the question as well as the solution.

There are over 100 Design a Problem exercises integrated into the problem sets in

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the book.

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The fourth edition
of this work
continues to
provide a
thorough
perspective of the
subject,
communicated
through a clear
explanation of the
concepts and
techniques of

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electric circuits.
This edition was

developed with

keen attention to

the learning needs

of students. It

includes

illustrations that

have been

redesigned for

clarity, new

problems and new

worked examples.

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Margin notes in the text point out the option of integrating PSpice with the provided Introduction to PSpice; and an instructor's roadmap (for instructors only) serves to classify homework problems by

approach. The author has also given greater attention to the importance of circuit memory in electrical engineering, and to the role of electronics in the electrical engineering curriculum.

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modeling and data
analysis that are
most often used in
scientific work.

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Scientists

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highlighted by an
engaging writing
style that explains
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clearly, along with the use of contemporary real world data sets to help motivate students and show direct connections to industry and research. While focusing on practical applications of statistics, the text

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use of examples
to motivate

fundamental

concepts and to

develop intuition.

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more efficiently

and gives you the

ability to

customize your

homework

problems simply

and easily. Track

individual student

performance - by

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question,
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assignment, or in
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relation to the
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reports.

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Statistics for
Engineers and
Scientists, fourth
edition, includes
the power of
McGraw-Hill 's
LearnSmart--a
proven adaptive
learning system
that helps
students learn
faster, study more
efficiently, and

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retain more
knowledge
through a series
of adaptive
questions. This
innovative study
tool pinpoints
concepts the
student does not
understand and
maps out a
personalized plan
for success.

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Applications of
Electrical
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Applied Linear
Algebra
Principles of
Measurement
Systems
CMOS

Specifically

Page 38/178

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*designed as an
introduction to
the exciting
world of*

engineering,

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encourages

students to

become engineers

and prepares

them with a

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***solid foundation
in the***

fundamental

principles and

physical laws.

The book begins

with a discovery

of what

engineers do as

well as an

inside look into

the various

areas of

specialization.

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An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established,

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the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical

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Laws and principles as

well as Solutions

mathematics to

design, test,

and supervise

the production

of millions of

parts, products,

and services

that people use

every day. By

gaining problem

solving skills

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Engineering

and an understanding of

fundamental

principles,

students are on

their way to

becoming

analytical,

detail-oriented,

and creative

engineers.

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Edition, by
Herman Tavani
introduces
students to***

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***that directly
affect computer
and information
technology (IT)
professionals to
broader social
and ethical
concerns that
affect each of
us in our day-to-
day lives. The
5th edition
shows how modern
day***

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***controversies
created by
emerging
technologies can
be analyzed from
the perspective
of standard
ethical concepts
and theories. --***

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publisher.***

***Covers
techniques and
theory in the***

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***field, for
students in
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for instrumentat
ion/control,
mechanical
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engineering, and
applied physics.
Three sections
discuss system
performance
under static and
dynamic***

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principles of*

signal Solutions

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*presentation,
and*

applications.

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*incorporates
recent*

*developments in
computing, solid-*

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and Engineers,

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offers a

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the internet.

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University, this

useful text

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***underpinnings of
the World Wide***

Web and explains

the basics of

digital

technology,

including

computing and

communications,

circuits, analog

and digital

electronics, as

well as special

topics such as

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*operational
amplifiers, data*

compression,

ultra high

definition TV,

artificial

intelligence,

and quantum

computers.

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updates and

expanded

material in all

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problems added

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on RLC circuits

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8, and 9 on

digital systems,

showing the many

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rapid progress*

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continues in the
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***successful
previous
editions, with
the objective of
presenting
circuit analysis
in a manner
that is clearer,
more
interesting, and
easier to
understand
than other,***

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more traditional texts. Students are introduced to the sound, six-step problem solving methodology in chapter one, and are consistently made to apply and practice

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problems and
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throughout the
text."--Publishe
r's website.***

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CMOS: Circuit
Design, Layout,
and Simulation
Revised Second***

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the Technical
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refreshing

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flavor. Design

concepts are

presented as

they are

needed for 'just-

in-time'

learning.

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circuits using
SPICE is
emphasized
with literally
hundreds of
examples. Very
few textbooks
contain as
much detail as
this one. Highly
recommended!"
--Paul M. Furth,***

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**builds a solid
knowledge of
CMOS circuit
design from the
ground up.**

**With coverage
of process
integration,
layout, analog
and digital**

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***models, noise
mechanisms,
memory
circuits,
references,
amplifiers,
PLLs/DLLs,
dynamic
circuits, and
data
converters, the
text is an
excellent***

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**reference for
both
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designers

alike." --Tyler J.

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Technology,

Inc. "The

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**success of the
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**cover additional
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**as oversampled
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is becoming the

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from design to

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integrated

circuits,

offering a vital,

contemporary

view of a wide

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circuit blocks,***

the BSIM

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converter

architectures,

and much more.

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takes a two-

path approach

to the topics:

design

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techniques are developed for both long- and short-channel CMOS technologies and then compared. The results are multidimensional explanations that allow readers to gain

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reflect CMOS

technology's

movement into

nanometer

sizes

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delay-locked
loops, mixed-*

*signal circuits,
data*

*converters, and
circuit noise*

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200 examples,
and over 500*

*end-of-chapter
problems In-*

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of both analog
and digital
circuit-level
design***

***techniques Real-
world process
parameters and
design rules***

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site,***

***CMOSedu.com,
provides:***

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additional
homework
problems
without
solutions; SPICE
simulation
examples using
HSPICE,
LTspice, and
WinSpice;***

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videos to aid
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provides a
wealth of
readily
accessible
information on***

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writing style,
and realistic
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examples,***

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and reorganizes
chapter*

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content. The introduction and treatment of external amplifier characteristics has been condensed into the first chapter; op amps are treated in a single chapter;

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***and treatment
of device
physics has
been shortened
and appears in
various
chapters on an
as-needed
basis. *Avoids
overloading
beginners with
unnecessary
detail, making***

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***the book more
succinct and
user friendly.***

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early treatment
of integrated-
circuit
techniques with
greater
emphasis
throughout.***

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readers to gain***

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**knowledge of
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taking an

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course. It also

integrates the

concepts,

rather than

presenting

them in

piecemeal

fashion. *NEW--

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and IC's.**

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features**

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related to a

particular topic.

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comments

summarize

procedures and

emphasize

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important points. *Treats digital circuits early in the book.

****Emphasizes design. For example, Anatomy of Design sections show realistic design examples.***

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****Demonstrates
ways in which
material fits***

***together,
providing
motivation and
creating
interest.***

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"one contains

the Student

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the necessary

background in
mechanics that is

essential in many
fields, such as civil,

mechanical,

construction,

architectural,

industrial, and

manufacturing

technologies. The

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focus is on the
fundamentals of
material statics
and strength and
the information is
presented using
an elementary,
analytical,
practical
approach, without
the use of
Calculus. To

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ensure

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the concepts,

rigorous,

comprehensive

example problems

follow the

explanations of

theory, and

numerous

homework

problems at the

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end of each
chapter allow for
class examples,
homework
problems, or
additional practice
for students.

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Sixth Edition of
Applied Statics

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chapter-opening

Learning

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major topics,

updated

terminology

changed to be

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with design codes,
and the addition
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calculations.

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introductory or

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clear introduction

to electrical

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fundamentals

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Principles and
Applications, 6e
helps students
learn electrical-

engineering

fundamentals

with minimal

frustration. Its

goals are to

present basic

concepts in a

general setting, to

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show students
how the principles
of electrical

engineering apply

to specific

problems in their

own fields, and to

enhance the

overall learning

process. Circuit

analysis, digital

systems,

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electronics, and
electromechanics
are covered. A
wide variety of
pedagogical
features stimulate
student interest
and engender
awareness of the
material's
relevance to their
chosen profession.

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engineering
concepts from
Electrical
Engineering with
self-paced
individualized
coaching. Note: If
you are
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electronic version,
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g by searching the
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Mastering is not a
self-paced
technology and
should only be
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required by an
instructor.

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The omnipresence
of electronic
devices in our
everyday lives has
been

accompanied by
the downscaling
of chip feature
sizes and the ever
increasing

complexity of
digital circuits.

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This book is devoted to the analysis and design of digital circuits, where the signal can assume only two possible logic levels. It deals with the basic principles and concepts of digital electronics.

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It addresses all aspects of combinational logic and provides a detailed understanding of logic gates that are the basic components in the implementation of circuits used to

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perform functions
and operations of
Boolean algebra.

Combinational
logic circuits are
characterized by
outputs that
depend only on
the actual input
values. Efficient
techniques to
derive logic

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equations are
proposed

together with

methods of

analysis and

synthesis of

combinational

logic circuits. Each

chapter is well

structured and is

supplemented by

a selection of

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solved exercises

covering logic

design practices.

Step-by-step

solutions to all

practice problems

for the electrical

engineering

license

examination

including:

fundamental

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concepts and
techniques,
machines, power
distribution,
electronics,
control systems,
computing, digital
systems,
communication
systeme

Product Design
and Development

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Electrical
Engineering:
Know It All
Controversies,
Questions, and
Strategies for
Ethical Computing
Field and Wave
Electromagnetics
Digital Electronics
1

For undergraduate

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introductory or
survey courses in

electrical Solutions

engineering.

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PRINCIPLES AND

APPLICATIONS, 5/e

helps students

learn electrical-

engineering

fundamentals with

minimal

frustration. Its

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goals are to present basic concepts in a general setting, to show students how the principles of electrical engineering apply to specific problems in their own fields, and to enhance the overall learning process. Circuit

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analysis, digital systems, electronics, and electromechanics are covered. A wide variety of pedagogical features stimulate student interest and engender awareness of the material's relevance to their chosen profession.

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**Matrix Methods:
Applied Linear
Algebra, Third**

**Edition, as a
textbook, provides
a unique and
comprehensive
balance between
the theory and
computation of
matrices. The
application of
matrices is not just
for**

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mathematicians.
The use by other
disciplines has

grown dramatically
over the years in
response to the
rapid changes in
technology. Matrix
methods is the
essence of linear
algebra and is
what is used to
help physical
scientists;

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**chemists,
physicists,
engineers,
statisticians, and
economists solve
real world
problems.**

**Applications like
Markov chains,
graph theory and
Leontief Models
are placed in early
chapters**

Readability- The

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**prerequisite for
most of the
material is a firm
understanding of
algebra New
chapters on Linear
Programming and
Markov Chains
Appendix
referencing the
use of technology,
with special
emphasis on
computer algebra**

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systems (CAS)

Hampley 5th

Editions Solutions

Manual For use in an

introductory circuit

analysis or circuit

theory course, this

text presents

circuit analysis in a

clear manner, with

many practical

applications. It

demonstrates the

principles,
carefully

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**explaining each
step.**

**For introductory
courses in**

**Engineering and
Computing Based
on Excel 2007,
Engineering with
Excel, 3e takes a
comprehensive
look at using Excel
in engineering.**

**This book focuses
on applications**

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and is intended to
serve as both a
textbook and a

reference for
students.

A Modern

Approach to

Classical Theorems

of Advanced

Calculus

Matrix Methods

Electric Circuits

Fundamentals

The Essentials of

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**Technical
Communication
Principles and
Applications**

**"The book may
be visualized
as having
three major
sections. The
first,
encompassing
the first**

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Engineering
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**three
chapters, is
an
introduction
to the
engineering
profession.
Chapter 1
provides
information on
engineering
disciplines**

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and functions.

**If a formal
orientation**

course is

given

separately,

Chapter 1 can

be simply a

reading

assignment and

the basis for

students to

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**investigate
disciplines of
interest.**

**Chapter 2
outlines the
course of
study and
preparation
for an
engineering
work
environment. I**

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**interdisciplina
ry projects,
teaming, and
ethics are
discussed.**

**Chapter 3 is
an**

**introduction
to the design
process. If
time permits,
this material**

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**can be
supplemented
with case
studies and
your personal
experiences to
provide an
interesting
and motivating
look at
engineering" --
The 2nd**

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**Edition of
Analog
Integrated
Circuit Design
focuses on
more coverage
about several
types of
circuits that
have increased
in importance
in the past**

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Engineering

decade.

Hambley 5th
Edition Solutions
Manual

Furthermore,

the text is

enhanced with

material on

CMOS IC device

modeling,

updated

processing

layout and

expanded

coverage to

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**reflect
technical
innovations.
CMOS devices
and circuits
have more
influence in
this edition
as well as a
reduced amount
of text on
BiCMOS and**

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**bipolar
information.
New chapters
include topics
on frequency
response of
analog ICs and
basic theory
of feedback
amplifiers.
This exciting
new text**

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**teaches the
foundations of
electric
circuits and
develops a
thinking style
and a problem-
solving
methodology
that is based
on physical
insight.**

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**Designed for
the first
course or
sequence in
circuits in
electrical
engineering,
the approach
imparts not
only an
appreciation
for the**

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**elegance of
the
mathematics of
circuit
theory, but a
genuine "feel"
for a
circuit's
physical
operation.
This will
benefit**

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**students not
only in the
rest of the
curriculum,
but in being
able to cope
with the
rapidly
changing
technology
they will face
on-the-job.**

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The text covers all the traditional topics in a way that holds students' interest. The presentation is only as mathematically rigorous as is needed, and

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**theory is
always related
to real-life
situations.**

Franco

introduces

ideal

transformers

and amplifiers

early on to

stimulate

student

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**interest by
giving a taste
of actual
engineering
practice. This
is followed by
extensive
coverage of
the
operational
amplifier to
provide a**

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**practical
illustration
of abstract
but
fundamental
concepts such
as impedance
transformation
and root
location contr
ol--always
with a**

**vigilant eye
on the
underlying
physical
basis. SPICE
is referred to
throughout the
text as a
means for
checking the
results of
hand**

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Engineering

calculations,
and in
separate end-
of-chapter
sections,
which

introduce the
most important
SPICE features
at the
specific
points in the

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Engineering

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**presentation
at which
students will
find them most
useful. Over
350 worked
examples,
400-plus
exercises, and
1000 end-of-
chapter
problems help**

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**students
develop an
engineering
approach to
problem
solving based
on conceptual
understanding
and physical
intuition
rather than on
rote**

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**procedures.
Treating such
contemporary
design and
development
issues as
identifying
customer
needs, design
for
manufacturing,
prototyping,**

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Engineering

and industrial

design,

Product Design

and

Development,

3/e, by Ulrich

and Eppinger

presents in a

clear and

detailed way a

set of product

development

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**techniques
aimed at
bringing
together the
marketing,
design, and
manufacturing
functions of
the
enterprise.
The
integrative**

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methods in the
book

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facilitate
problem

solving and
decision

making among
people with

different

disciplinary

perspectives,

reflecting the

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**current
industry trend
to perform
product design
and
development in
cross-
functional
teams.**

**Ethics and
Technology
Engineering**

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Fundamentals &

Problem

Solving

Circuit

Design,

Layout, and

Simulation

Automated

Industrial

Systems:

Workbook

Engineering

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Fundamentals:
Hambley 5th
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An

**Introduction
to**

**Engineering,
SI Edition**

This book uses
elementary versions
of modern methods
found in
sophisticated
mathematics to

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discuss portions of
"advanced calculus"
in which the subtlety
of the concepts and
methods makes
rigor difficult to
attain at an
elementary level.

Publisher

Description

Statistics for

Engineers and

Scientists stands

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out for its crystal
clear presentation of
applied statistics.

Suitable for a one or
two semester

course, the book

takes a practical

approach to

methods of

statistical modeling

and data analysis

that are most often

used in scientific

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work.

This text presents material common to a first course in vibration and the integration of computational software packages into the development of the text material (specifically makes use of MATLAB,

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MathCAD, and
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Mathematica). This

allows solution of

difficult problems,

provides training in

the use of codes

commonly used in

industry,

encourages

students to

experiment with

equations of

vibration by allowing

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easy what if solutions. This also allows students to make precision response plots, computation of frequencies, damping ratios, and mode shapes. This encourages students to learn vibration in an interactive way, to

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solidify the design components of vibration and to

integrate nonlinear vibration problems earlier in the text.

The text explicitly addresses design by grouping design related topics into a single chapter and using optimization, and it connects the

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computation of
natural frequencies

and mode shapes to

the standard

eigenvalue problem,

providing efficient

and expert

computation of the

modal properties of

a system. In

addition, the text

covers modal

testing methods,

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which are typically
not discussed in
competing texts.

software to include

Mathematica and

MathCAD as well as

MATLAB in each

chapter, updated

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Vibration Toolbox

and web site;

integration of the

numerical simulation

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and computing into
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each topic by

chapter; nonlinear

considerations

added at the end of

each early chapter

through simulation;

additional problems

and examples; and,

updated solutions

manual available on

CD for use in

teaching. It uses

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windows to remind the reader of relevant facts outside the flow of the text

development. It introduces modal analysis (both theoretical and experimental). It introduces dynamic finite element analysis. There is a

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separate chapter on
design and special
sections to

emphasize design in
vibration.

Modeling and

Analysis of Dynamic
Systems

Principles of

Highway

Engineering and

Traffic Analysis

Using Orcad

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Single Variable

Calculus, Volume 2

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Mechanics of

Materials

Electrical Engineerin

gPrinciples and

ApplicationsPrentice

Hall

James Stewart's

CALCULUS texts

are widely renowned

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for their mathematical precision and accuracy, clarity of exposition, and outstanding examples and problem sets.

Millions of students worldwide have explored calculus through Stewart's trademark style,

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while instructors have turned to his approach time and time again. In the

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CALCULUS,

Stewart continues to

set the standard for

the course while

adding carefully

revised content. The

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patient explanations,
superb exercises,
focus on problem
solving, and carefully
graded problem sets
that have made
Stewart's texts best-
sellers continue to
provide a strong
foundation for the
Seventh Edition.

From the most
unprepared student

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to the most
mathematically
gifted, Stewart's
writing and
presentation serve to
enhance
understanding and
build confidence.

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be an engineer's first

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of thumb.

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engineers need to

master a wide area

of topics to excel.

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angle including Real-

World Signals and

Systems,

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Electromagnetics,
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and Power systems.

A 360-degree view
from our best-selling

authors Topics

include digital,

analog, and power

electronics, and

electric circuits The

ultimate hard-

working desk

reference; all the

essential

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information,
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techniques and tricks
of the trade in one
volume

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

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electrical, electronic,
and

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electromechanical
engineering to non-
electrical engineering
majors. Building on
the success of
previous editions,
this text focuses on
relevant and
practical
applications that will
appeal to all

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engineering students.

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Problems and

Solutions

Advanced Mechanics

of Materials and

Applied Elasticity

Loose Leaf for

Statistics for

Engineers and

Scientists

Circuits, Devices,

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

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*explanations &
limits maths to
only what's
needed for
understanding
electric
circuits
fundamentals.
Analog
Integrated
Circuit Design
Hard Rock
Miner's Handbook*