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Basic

Engineering

Concepts

*Basic Engineering
Technology covers
various topics
related to
engineering, from
safety procedures
and movement of
loads to*

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measurement and dimensional control. Marking out, workholding, and toolholding are also discussed, along with joining, assembly, and dismantling. The interpretation of technical drawings, specifications, and data is considered

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as well. Comprised of 10 chapters, this book begins with a historical overview of the development of the engineering industry, followed by a discussion on the academic qualifications and training of the various categories of technical

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personnel employed in the industry. The reader is then introduced to safe practices observed in the engineering industry, with emphasis on health and safety legislation, causes of accidents, and accident

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prevention.

Subsequent chapters focus on safety considerations in the movement of loads; measurement and control of dimensional properties; advantages and disadvantages of

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*marking out;
workholding and
toolholding
applications; and
assembly and
dismantling. This
monograph is
intended for
undergraduate
students and those
enrolled in training
centers and in
industrial*

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apprentice training schemes.

*Engineering
Fundamentals: An
Introduction to
Engineering, SI
Edition Cengage
Learning*

*This textbook is
designed to serve
as a text for
undergraduate
students of*

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mechanical engineering. It covers fundamental principles, design methodologies and applications of machine elements. It helps students to learn to analyse and design basic machine elements in mechanical systems. Beginning

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with the basic concepts, the book discusses wide range of topics in design of mechanical elements. The emphasis is on the underlying concepts of design procedures. The inclusion of machine tool

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design makes the book very useful for the students of production engineering.

Students will learn to design different types of elements used in the machine design process such as fasteners, shafts, couplings, etc. and

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will be able to design these elements for each application. Following a simple and easy to understand approach, the text contains:

- *Variety of illustrated design problems in detail*
- *Step by step design*

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*procedures of
different machine
elements • Large
number of machine
design data*

Audience

*Undergraduate
students of
Mechanical
Engineering.*

*"Introduction to
Basic Concepts in
Engineering" is a*

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college-prep course targeted towards high school students with an interest in pursuing an education in engineering. The course serves both to promote interest in engineering to prospective students and to prepare students to

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*succeed in a
university
undergraduate
engineering
program by
building a solid
foundation of basic
knowledge and
skills. This
handbook serves as
a guide and as a
resource to the
student throughout*

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*the course. Key
Features Example
problems to be
worked in-class to
support concepts as
they are introduced
14 lab activities
provide hands-on
experience,
interactive
learning, and
develop key skills
Practice problems*

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*provide for
independent
application of
theory and
reinforce key
concepts through
practice Supports
your learning and
development as you
learn about
engineering*

*Engineering
Mechanics 3*

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*Basic Engineering
Circuit Analysis,
10th Edition,
WileyPLUS
Companion
Practices,
Crosscutting
Concepts, and Core
Ideas
Basic Concepts in
Statics and
Dynamics
Basic Mechanical*

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*Engineering
Science,
engineering, and
technology
permeate nearly
every facet of
modern life and
hold the key to
solving many of
humanity's most
pressing current
and future
challenges. The
United States'*

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***position in the
global economy
is declining, in
part because U.S.
workers lack
fundamental
knowledge in
these fields. To
address the
critical issues of
U.S.
competitiveness
and to better
prepare the***

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***workforce, A
Framework for
K-12 Science
Education
proposes a new
approach to K-12
science
education that
will capture
students' interest
and provide them
with the
necessary
foundational***

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***knowledge in the
field. A***

***Framework for
K-12 Science
Education***

***outlines a broad
set of***

***expectations for
students in
science and***

***engineering in
grades K-12.***

These

expectations will

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inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies

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three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of

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***science through
their common
application
across science
and engineering;
scientific and
engineering
practices; and
disciplinary core
ideas in the
physical
sciences, life
sciences, and
earth and space***

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sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on

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science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-

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***level decisions
and achieve a res
earch-grounded
basis for
improving
science
instruction and
learning across
the country. The
book will guide
standards
developers,
teachers,
curriculum***

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***designers,
assessment
developers, state
and district
science
administrators,
and educators
who teach
science in
informal
environments.
Dynamics is the
third volume of a
three-volume***

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***textbook on
Engineering
Mechanics. It
was written with
the intention of
presenting to
engineering
students the
basic concepts
and principles of
mechanics in as
simple a form as
the subject
allows. A second***

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objective of this book is to guide the students in their efforts to solve problems in mechanics in a systematic manner. The simple approach to the theory of mechanics allows for the different educational backgrounds of

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the students.

***Another aim of
this book is to
provide
engineering
students as well
as practising
engineers with a
basis to help
them bridge the
gaps between
undergraduate
studies,
advanced courses***

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on mechanics and practical engineering problems. The book contains numerous examples and their solutions. Emphasis is placed upon student participation in solving the problems. The

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contents of the book correspond to the topics normally covered in courses on basic engineering mechanics at universities and colleges. Volume 1 deals with Statics; Volume 2 contains Mechanics of

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Materials.

***Automobile or
Automotive
Engineering has
gained
recognition and
importance ever
since motor
vehicles capable
for transporting
passengers has
been in vogue.
Now due to the
rapid growth of***

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***auto component
manufacturers
and automobile
industries, there
is a great
demand for
Automobile
Engineers.
Automobile
Engineering alias
Automotive
Engineering or
Vehicle
Engineering is***

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***one of the most
challenging
careers in the
field of
engineering with
a wide scope.
This branch
deals with the
designing,
developing,
manufacturing,
testing and
repairing and
servicing***

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automobiles such as cars, trucks, motorcycles, scooters etc & the related sub Engineering systems. For the perfect blend of manufacturing and designing automobiles, Automobile Engineering uses the features of

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***different
elements of
Engineering such
as mechanical,
electrical,
electronic,
software and
safety
engineering. To
become a
proficient
automobile
engineer,
specialized***

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training is essential and it is a profession, which requires a lot of hard work, dedication, determination and commitment. The major task of an Automobile Engineer is the designing, developing, manufacturing

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and testing of vehicles from the concept stage to the production stage The automotive industry is one of the largest and most important industries in the world. Cars, buses, and other engine-based vehicles abound

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***in every country
on the planet,
and it is
continually
evolving, with
electric cars,
hybrids, self-
driving vehicles,
and so on.***

***Technologies
that were once
thought to be
decades away are
now on our roads***

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right now.

*Engineers,
technicians, and
managers are
constantly
needed in the
industry, and,
often, they come
from other areas
of engineering,
such as electrical
engineering,
process
engineering, or*

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***chemical
engineering.
Introductory
books like this
one are very
useful for
engineers who
are new to the
industry and
need a tutorial.
Also valuable as
a textbook for
students, this
introductory***

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volume not only covers the basics of automotive engineering, but also the latest trends, such as self-driving vehicles, hybrids, and electric cars. Not only useful as an introduction to the science or a textbook, it can

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also serve as a valuable reference for technicians and engineers alike. The volume also goes into other subjects, such as maintenance and performance. Data has always been used in every company irrespective of its

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domain to improve the operational efficiency and performance of engines. This work deals with details of various automotive systems with focus on designing various components of

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these system to suit the working conditions on roads. Whether a textbook for the student, an introduction to the industry for the newly hired engineer, or a reference for the technician or veteran engineer, this volume is

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*the perfect
introduction to
the science of
automotive
engineering.
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Engineering
covers a wide
range of topics
and engineering
concepts that are
required to be
learnt as in any
undergraduate*

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***engineering
course. Divided
into three parts,
this book lays
emphasis on
explaining the
logic and physics
of critical
problems to
develop
analytical skills
in students.
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for Novices

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and Applications
in ICT***

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Engineering
Circuit Analysis,
11th Edition***

***Basic Concepts
and Engineering
Applications***

The primary goal
of this book is to

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present the fundamentals of the technical aspects of residential construction. Basic engineering principles are offered in non-technical language that the builder can put to use on

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his jobs. Includes understanding engineering requirements on the plans and how to meet them, sizing of structural members using only preliminary plans, and requirements for steel, concrete,

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and masonry.

"Introduction to Basic Concepts in Engineering" is a college-prep course targeted towards high school students with an interest in pursuing an education in engineering. The

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course serves both to promote interest in engineering to prospective students and to prepare students to succeed in a university undergraduate engineering program by building a solid

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foundation of basic knowledge and skills. This handbook serves as a guide and as a resource to the student throughout the course. The second edition contains additional lab activities, expanded subject

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matter, and
improved and
streamlined
example problems
that focus on
theory rather than
complex
calculations. The
second edition
contains additional
lab activities,
expanded subject

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matter, and improved and streamlined example problems that focus on theory rather than complex calculations. Key Features- Example problems to be worked in-class to support concepts

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as they are
introduced - 15 lab
activities provide
hands-on
experience,
interactive
learning, and
develop key skills-
Practice problems
provide for
independent
application of

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theory and
reinforce key
concepts through
practice - Supports
your learning and
development as
you learn about
engineering
Engineering
education in K-12
classrooms is a
small but growing

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phenomenon that
may have
implications for
engineering and
also for the other
STEM
subjects--science,
technology, and
mathematics.
Specifically,
engineering
education may

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improve student learning and achievement in science and mathematics, increase awareness of engineering and the work of engineers, boost youth interest in pursuing

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engineering as a career, and increase the technological literacy of all students. The teaching of STEM subjects in U.S. schools must be improved in order to retain U.S. competitiveness in

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the global economy and to develop a workforce with the knowledge and skills to address technical and technological issues.

Engineering in K-12 Education reviews the scope

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and impact of engineering education today and makes several recommendations to address curriculum, policy, and funding issues. The book also analyzes a number of K-12 engineering

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reference for
science,
technology,
engineering, and
math educators,
policy makers,
employers, and
others concerned
about the
development of
the country's
technical

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workforce. The book will also prove useful to educational researchers, cognitive scientists, advocates for greater public understanding of engineering, and those working to

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boost

technological and
scientific literacy.

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Concepts for
Students and
Professionals □ A
Comprehensive
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Soil Mechanics

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Basic Concepts for
Engineers and
Scientists

This book presents fundamental contributions to computer science as written and recounted by those who made the contributions themselves. As such, it is a highly original approach to a OC

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living historyOCO of the field of computer science. The scope of the book is broad in that it covers all aspects of computer science, going from the theory of computation, the theory of programming, and the theory of computer system performance, all the way to

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*computer hardware
and to major
numerical applications
of computers.*

*Basic Mechanical
Engineering
curriculum focuses on
what mechanical
engineering is all
about: design,
analysis, materials
and manufacture of
systems. To that
extent, all*

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mathematics, science, and engineering courses relate their contents to analysis, design, development and manufacturing.

Mechanical

Engineering explains about the knowledge and understanding of the concepts in the mechanical engineering discipline.

This book focuses on

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basic engineering concepts which will help student to perform well in the engineering field. The following topics are covered in this subject:

- Design fundamentals*
- Engineering materials*
- Manufacturing processes*
- Machine tools*
- Thermal Engineering*
- Theory*

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*of Machines and
Machine Design •
Power absorbing
devices • Steam
Boilers, Compressors,
Engines, and Turbines
• Refrigeration and Air-
conditioning Key
Features • Course
learning objectives •
All topics explained in
simple and lucid
manner • Sufficient
theory questions and*

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*Numerical problems
for practice
Science and
Technology are
ubiquitous in the
modern world as
evidenced by digital
lifestyles through
mobile phones,
computers, digital
financial services,
digital music, digital
television, online
newspapers, digital*

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medical equipment and services including e-services (e-commerce, e-learning, e-health, e-government) and the internet. This book, Introduction to Basic concepts for Engineers and Scientists: Electromagnetic, Quantum, Statistical and Relativistic

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Concepts. is written with the objective of imparting basic concepts for engineering, physics, chemistry students or indeed other sciences, so that such students get an understanding as to what is behind all these modern advances in science and technology. The

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basic concepts covered in this book include electromagnetic, quantum, statistical and relativistic concepts, and are covered in 20 chapters. The choice of these concepts is not accidental, but deliberate so as to highlight the importance of these

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basic science

*concepts in modern
engineering and
technology.*

*Electromagnetic
concepts, are covered
in chapters 1 to 6 with
chapters 1 (Maxwell's
equations), 2
(Electromagnetic
waves at boundaries),
3 (Diffraction and
Interference), 4
(Optical fiber*

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*communications), 5
(Satellite
communications) and
6 (Mobile cellular
communications).
Quantum concepts
are covered in
chapters 7 to 15 with
chapters 7 (Wave-
particle duality), 8
(The wave function
and solutions of the
Schrodinger equation
in different systems), 9*

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(Introduction to the structure of the atom), Introduction to materials science I, II, III and IV, in four chapters: 10 (I: Crystal structure), 11 (II: Phonons), 12 (III: Electrons) and 13 (IV: Magnetic materials), 14 (Semiconductor devices), and 15 (Quantum Optics). Statistical concepts

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are covered in chapters 16 to 19, with chapters 16 (Introduction to statistical mechanics), 17 (Statistical mechanics distribution functions, covering Maxwell-Boltzmann statistics, Fermi-Dirac statistics and Bose-Einstein statistics), 18 (Transport theory) and 19 (Phase transitions).

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Finally, chapter 20 (Relativity) where Galilean, Special and General Relativity are discussed.

For the first time, engineering for the packaging industry and for the biggest packaging user, food processing is presented in a way that clearly demonstrates its

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*interconnected,
globally integrated
nature. Food and
Package Engineering
is a groundbreaking
work that serves as a
comprehensive guide
to the complexities
and the potential of
the industry.*

*Packaging draws on
nearly every aspect of
science, technology,
business, social*

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science, and engineering. Rather than present a traditionally linear view of these topics, the author takes a "Packaging Cycle" approach by guiding readers through the life of the package from raw materials and conversion, operations, distribution, retail, all

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*the way to recycling or disposal by the consumer. Food and Package Engineering includes many essential topics usually not addressed in other food engineering or packaging texts, including: Raw materials production and conversion
Inventory*

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*management and
production scheduling
Regulations, security
and food safety
Recycling and landfill
issues Transportation
systems and
distribution packaging
Evaluation of
developing
technologies The
comprehensive
approach of this
volume provides a*

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framework to discuss critical interrelated topics such as economics, politics, and natural resources. Intended for readers with varying levels of experience, Food and Package Engineering provides multi-level accessibility to each topic, allowing both students and professionals to find

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meticulously researched, Food and Package Engineering offers both a technical and a real-world perspective of the field. The text serves the student or industry professional at any level or background as an outstanding learning and reference work for their professional

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*preparation and
practice.*

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Electromagnetic,

Quantum, Statistical

and Relativistic

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A Framework for K-12

Science Education

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comprehensive
text introduces
the essential
concepts of
bioprocessing -
internal structure
and functions of
different types of
microorganisms,
major metabolic
pathways,
enzymes,

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microbial
genetics, kinetics
and
stoichiometry of
growth and
product
information - to
traditional
chemical
engineers and
those in related
disciplines. It

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explores the engineering principles necessary for bioprocess synthesis and design, and illustrates the application of these principles to modern biotechnology for

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production of
pharmaceuticals
and biologics,
solution of
environmental
problems,
production of
commodities, and
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practitioners by a
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engineer, it
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concepts taught
in college and the
most useful

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knowledge
learned afterward
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Professionals-
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Materials-
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and Nelms has
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for providing the
best supported
learning for
students
otherwise
intimidated by
the subject
matter. In this

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explained clearly and illustrated by detailed worked examples. These are then followed by Learning Assessments, which allow students to work similar problems and check their results against

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chemical
engineering
topics for non-
chemical
engineers. With a
focus on the
practical rather
than the
theoretical, the
reader will obtain
a foundation in
chemical

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engineering that can be applied directly to the workplace. By the end of this book, the user will be aware of the major considerations required to safely and efficiently design and

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operate a
chemical
processing
facility. Simplified
accounts of
traditional
chemical
engineering
topics are
covered in the
first two-thirds of
the book, and

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include: materials
and energy
balances, heat
and mass
transport, fluid
mechanics,
reaction
engineering,
separation
processes,
process control
and process

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equipment design. The latter part details modern topics, such as biochemical engineering and sustainable development, plus practical topics of safety and process

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economics,
providing the
reader with a
complete guide.
Case studies are
included
throughout,
building a real-
world
connection.
These case
studies form a

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common thread throughout the book, motivating the reader and offering enhanced understanding. Further reading directs those wishing for a deeper appreciation of

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certain topics.

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courses where a
simplified
introductory text
is desired.

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Technology
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Concepts in
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features to
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New problems
and expanded
application
examples in
PSPICE,
MATLAB, and
LabView are
included. New
quizzes are also
added to help
engineers***

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***reinforce the
key concepts.
In many cases,
the beginning
engineering
student is
thrown into
upper-level
engineering
courses without
an adequate
introduction to***

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the basic material. This, at best, causes undue stress on the student as they feel unprepared when faced with unfamiliar material, and at worst, results in students

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***dropping out of
the program or
changing majors
when they
discover that
their chosen
field of
engineering is
not what they
thought it was.
The purpose of
this text is to***

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introduce the student to a general cross-section of the field of electrical and computer engineering. The text is aimed at incoming freshmen, and

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***as such,
assumes that
the reader has a
limited to
nonexistent
background in
electrical
engineering and
knowledge of no
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