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examination of
forces that create
entire body***

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***motion, and
develops the
biomechanical
knowledge of the
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of a successful
textbook
continues to
provide students
with an
introduction to***

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***the basic
principles of
materials science
over a broad
range of topics.
The authors have
revised and
updated this
edition to include
many new
applications and
recently***

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developed materials. The book is

presented in three parts. The first section discusses the physics, chemistry, and internal structure of materials. The second part

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***examines the
mechanical
properties of
materials and
their application
in engineering
situations. The
final section
presents the
electromagnetic
properties of
materials and***

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***their application.
Each chapter
begins with an
outline of the
relevance of its
topics and ends
with problems
that require an
understanding of
the theory and
some reasoning
ability to resolve.***

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These are followed by self-assessment questions, which test students' understanding of the principles of materials science and are designed to quickly cover the subject area of the chapter.

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***This edition of
Materials Science
for Engineers
includes an
expanded
treatment of
many materials,
particulary
polymers, foams,
composites and
functional
materials. Of the***

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***latter,
superconductors
and magnetics
have received
greater coverage
to account for the
considerable
development in
these fields in
recent years.
New sections on
liquid crystals,***

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***superalloys, and
organic
semiconductors
have also been
added to provide
a comprehensive
overview of the
field of materials
science.***

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For courses in
introductory
combined Statics
and Mechanics of***

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***Materials courses
found in ME, CE,
AE, and
Engineering
Mechanics
departments.
Statics and
Mechanics of
Materials
represents a
combined
abridged version***

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***of two of the
author's books,
namely***

***Engineering
Mechanics:
Statics,
Fourteenth
Edition and
Mechanics of
Materials, Tenth
Edition. It
provides a clear***

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***and thorough
presentation of
both the theory
and application
of the important
fundamental
topics of these
subjects that are
often used in
many
engineering
disciplines. The***

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development emphasizes the importance of satisfying equilibrium, compatibility of deformation, and material behavior requirements.

The hallmark of the book remains the same as the

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***author's
unabridged
versions with a
strong emphasis
on drawing a free-
body diagram
and on the
importance of
selecting an
appropriate
coordinate
system and an***

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associated sign convention whenever the equations of mechanics are applied.

Throughout the book, many analysis and design applications are presented, which

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***involve
mechanical
elements and
structural
members often
encountered in
engineering
practice. Also
available with Ma
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***materials'
behaviour
through***

***knowledge of
their chemical
and physical
structure. It
covers the main
classes of
construction
materials: metals,
concrete, other***

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(including bricks
and masonry),
polymers, fibre
composites,
bituminous
materials, timber,
and glass. It
provides a clear
and
comprehensive
perspective on

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***the whole range
of materials used
in modern
construction, to
form a must-have
for civil and
structural
engineering
students, and
those on courses
such as
architecture,***

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surveying and construction. It begins with a Fundamentals section followed by a section on each of the major groups of materials. In this new edition: - The section on fibre composites FRP

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further questions
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parts have also
been updated
and extended,
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other online*

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the basic
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behaviour of
materials at rest**

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**(statics), while
developing their
mastery of
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methods of
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solving
problems.
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in scope and
readable, this
book explores**

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**the methods
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engineers to
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presentation of
both the theory
and application
of the important
fundamental
topics of these
subjects that are
often used in
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engineering**

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disciplines. The development emphasises the importance of satisfying equilibrium, compatibility of deformation, and material behavior requirements. The hallmark of the book,

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**however,
remains the
same as the
author's
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versions, and
that is, strong
emphasis is
placed on
drawing a free-
body diagram,
and the**

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**importance of
selecting an
appropriate
coordinate
system and an
associated sign
convention
whenever the
equations of
mechanics are
applied.**

Throughout the

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**book, many
analysis and
design**

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presented, which
involve
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elements and
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members often
encountered in
engineering**

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variational
methods, buckling
of stepped
columns, common
shell types,
inelastic materials
behavior, and

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more. The text addresses the use of new materials in bridges, buildings, automobiles, submarines, ships, aircraft, and spacecraft. It offers significantly expanded coverage of stress concentration factors and contact stress

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Understand plane
stress, stress
transformations,
deformations, and
strains Analyze a
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stiffness, and
stability Explore
failure criteria and
material behavior
under diverse

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predict component
deformation or
buckling Learn and
apply the theory of
elasticity Solve
problems related
to beam bending,
torsion of
noncircular bars,
and
axisymmetrically
loaded
components,

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finite element
method to
economically solve
complex problems
Characterize the
plastic behavior of
materials
Conforming with
current policy and
standards,
quantities are
defined in both SI*

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updated to

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clear and
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of composite
materials. In
describing both
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