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**Design Of
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***The #1 visual guide
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*principles, updated
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understand

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resilient design,
diagrids, modular
foundation
systems, smart
façade systems,
lighting sources,
mass timber
materials, and
more. It features
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***resilient design;
diagrids; modular
foundation
systems; smart
façade types and
systems; lighting
sources and
systems; and mass
timber materials,
cross laminated
timber (CLT) and
nail laminated
timber (NLT)
Revised to reflect***

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**that latest updates
in codes and
standards requirements:
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Edition is an
excellent book for
students in
architecture, civil
and structural
engineering,*

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management, and
interior design
programs. Ching
communicates
these core
principles of
building
construction in a
way that resonates
with those
beginning their
education and
those well into***

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***their careers
looking to brush up
on the basics.***

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guide that
practicing
architects,
engineers,
construction
managers, and
interior designers,***

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**will turn to time
and again
throughout their
careers.**

***Wood is a natural
building material:
if used in building
elements, it can
play structural,
functional and
aesthetic roles at
the same time. The
use of wood in
buildings, which***

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goes back to the oldest of times, is now experiencing a period of strong expansion in virtue of the sustainable dimension of wood buildings from the environmental, economic and social standpoints. However, its use as an engineering material calls for

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constant

development of

theoretical and

experimental

research to

respond properly

to the issues

involved in this. In

the single chapters

written by experts

in different fields,

the book aims to

contribute to

knowledge in the

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***application of
wood in the
building industry.***

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INDUSTRY SOURCE
FOR BUILDING
WITH WOOD—
NOW IN A
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UPDATED SIXTH
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1966, *Timber
Construction
Manual* has
become the
essential design
and construction
industry resource
for building with
structural glued
laminated timber.
*Timber
Construction
Manual, Sixth
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**architects,
engineers,
contractors,
educators, and
related**

**professionals with
up-to-date
information on
engineered timber
construction,
including the latest
codes,
construction
methods, and**

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**authoritative
design
recommendations!**

**Content has been
reorganized to flow
easily from
information on
wood properties
and applications to
specific design
considerations.**

**Based on the most
reliable technical
data available, this**

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***edition has been
thoroughly revised
to encompass: A
thorough update of
all recommended
design criteria for
timber structural
members, systems,
and connections
An expanded
collection of real-
world design
examples
supported with***

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detailed schematic drawings New material on the role of glulam in sustainable building practices The latest design and construction codes, including the 2012 National Design Specification for Wood Construction, AITC

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117-2010, and
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examples featuring
ASCE 7-10 and IBC
2009 More cross-
referencing to
other available
AITC standards on
the AITC website
Since 1952, the
**AMERICAN
INSTITUTE OF
TIMBER
CONSTRUCTION**
has been the

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***national technical
trade association
of the structural
glued laminated
timber industry.
AITC-recommended
building and
design codes for
wood-based
structures are
considered
authoritative in the
United States
building industry.***

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***Emphasizing a
conceptual
understanding of
concrete design
and analysis, this
revised and
updated edition
builds the
student's
understanding by
presenting design
methods in an easy
to understand
manner supported***

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with the use of numerous examples and problems. Written in intuitive, easy-to-understand language, it includes SI unit examples in all chapters, equivalent conversion factors from US customary to SI throughout

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***the book, and SI
unit design tables.
In addition, the
coverage has been
completely
updated to reflect
the latest ACI
318-11 code.
Timber
Construction
Manual
Reliability-Based
Design of
Engineered Wood***

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**Structures
Simplified Design
of Wood Structures
Structures or Why
things don't fall
down
Design of Wood
Structures - ASD**

This book provides basic information on the design of structures with tropical woods. It is intended primarily for teaching university- and

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college-level courses in structural design. It is also suitable as a reference material for practitioners. Although parts of the background material relate specifically to West and East Africa, the design principles apply to the whole of tropical Africa, Latin America and South Asia. The book is laced with ample

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illustrations including photographs of real life wood structures and structural elements across Africa that make for interesting reading. It has numerous manual and Excel spread sheet worked examples and review questions that can properly guide a first-time designer of wooden structural elements. A number of

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design problems are also solved using the FORTRAN programming language. Topics covered in the thirteen chapters of the book include a brief introduction to the book, the anatomy and physical properties of tropical woods; a brief review of the mechanical properties of wood, timber

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seasoning and preservation, uses of wood and wood products in construction; basic theory of structures, and structural load computations; design of wooden beams, solid and built-up wooden columns, wood connections and wooden trusses; as well as a brief introduction to the

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design of wooden
bridges.

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The revised and enlarged edition of this successful book, intended for readers with limited training in mathematics and engineering analysis, covers the most common and frequently encountered problems relating to design of structural components

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and systems of
structural wood for
building structures.

Thoroughly updated to
reflect the latest
standards, this edition
includes two completely
new chapters on wood
framed diaphragms and
building design
examples. New material
also includes coverage
of pole structures, joints
using nails and screws,

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mechanically driven fasteners, plywood gussets, manufactured trusses, and wood fiber products. English units are used throughout, but SI equivalents are also provided.

Timber, steel, and concrete are common engineering materials used in structural design. Material choice depends upon the type

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of structure, availability of material, and the preference of the designer. The design practices the code requirements of each material are very different. In this updated edition, the elemental designs of individual components of each material are presented, together with theory of structures essential for

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the design. Numerous examples of complete structural designs have been included. A comprehensive database comprising materials properties, section properties, specifications, and design aids, has been included to make this essential reading.

Wood is the major building material in

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residential structures.
This work reflects the

2006 Building Code,

NDS standards, and

ASCE load standard. It

is aimed at civil

engineers and

architects, and students.

Advanced Mechanics of

Materials

A Professional's

Introduction to

Earthquake Forces and

Design Details

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Engineer's
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only compilation
of all tables,
data, facts and
formulae needed
for scheme
design to
British
Standards by
structural
engineers in a
handy-sized
format. Bringing
together data
from many

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sources into a
compact,
affordable
pocketbook, it
saves valuable
time spent
tracking down
information
needed
regularly. This
second edition
is a companion
to the more
recent Eurocode

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third edition.
Although small
in size, this
book contains
the facts and
figures needed
for preliminary
design whether
in the office or
on-site. Based
on UK
conventions, it
is split into 14
sections

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geotechnics,
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timber, and
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section on
sustainability
covering general
concepts,
materials,

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actions and
targets for
structural
engineers.

Reliability-
based design
(RBD) procedures
for engineered
structures are
being developed
and quickly
gaining
acceptance by
code agencies

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throughout the world. Numerous organizations are involved in the development of national or regional codes without the benefit of interchange of ideas and methodologies. Harmonization and coordination

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of these activities is absolutely essential if the ever-increasing international commerce is to flourish. This NATO Advanced Research Workshop (ARW) was organized to bring together, for the first

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time, experts on
RBD and related
subjects from
various
countries to
assess the
current
knowledge and
recommend new
developments.
Further, due to
their unique
nature and great
economic

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significance in most parts of the world, special emphasis was placed on engineered wood structures. For example, in North America more wood products are used in construction than ali other

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materials
(steel,

concrete, brick,
etc.) combined.

However, the
wood industry
segment,
historically,
receives less
attention and
smaller
financial
support for new
developments

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than other construction materials. RBD developments are being conducted in similar, but largely independent, Europe, North America, New Zealand and Australia.

Experts from these regions

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were brought together to exchange information on current work, propose new developments and to provide means of international coordination. Thus, this ARW provided an opportunity to advance the

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cause of RBD of
engineered wood
structures.
- Solid review
of seismic
design exam
topics- More
than 100
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Includes step-by-
step solutions
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The leading wood
design reference

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revised with the
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data Fully

updated to cover
the latest

techniques and
standards, the

eighth edition
of this

comprehensive

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resource leads
you through the
complete design
of a wood
structure
following the
same sequence
used in the
actual design/co
nstruction
process.

Detailed
equations, clear
illustrations,

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and practical design examples are featured throughout the text. This up-to-date edition conforms to both the 2018 International Building Code (IBC) and the 2018 National Design Specification

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loads • Behavior
of structures
under loads and
forces • Propertie

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lumber grades • St
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• Diaphragms and
shearwalls • Wood
and nailed conne
ctions • Bolts,

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lag bolts, and
other connectors
• Connection
details and hard
ware • Diaphragm-
to-shearwall anc
horage • Requireme
nts for
seismically
irregular struct
ures • Residential
buildings with
wood light
frames

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Industry and Its
Workers
Designing Tall
Buildings
LRFD Method
The Construction
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I am very much

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aware that it is an act of extreme rashness to attempt to write an elementary book about structures. Indeed it is only when the subject is stripped of its mathematics that one begins to realize how difficult

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it is to pin down
and describe those
structural concepts
which are often
called 'elementary';
by which I
suppose we mean
'basic' or
'fundamental'.

Some of the omis
sions and
oversimplifications

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are intentional but
no doubt some of
them are due to
my own brute
ignorance and lack
of understanding
of the subject.
Although this
volume is more or
less a sequel to
The New Science
of Strong Materials

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it can be read as an entirely separate book in its own right. For this reason a certain amount of repetition has been unavoidable in the earlier chapters. I have to thank a great many people for

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factual information,
suggestions and
for stimulating and
sometimes heated
discussions.

Among the living,
my colleagues at
Reading University
have been
generous with
help, notably
Professor W. D.

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Biggs (Professor of
Building
Technology), Dr
Richard Chaplin,
Dr Giorgio
Jeronimidis, Dr
Julian Vincent and
Dr Henry Blyth;
Professor Anthony
Flew, Professor of
Philosophy, made
useful suggestions

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about the last
chapter. I am also
grateful to Mr John
Bartlett,
Consultant
Neurosurgeon at
the Brook Hospital.
Professor T. P.
Hughes of the
University of the
West Indies has
been helpful about

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rockets and many other things besides. My secretary, Mrs Jean Collins, was a great help in times of trouble. Mrs Nethercot of Vogue was kind to me about dressmaking. Mr Gerald Leach and

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also many of the editorial staff of Penguins have exercised their accustomed patience and helpfulness.

Among the dead, I owe a great deal to Dr Mark Pryor - lately of Trinity College,

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especially for
discussions about
biomechanics
which extended
over a period of
nearly thirty years.
Lastly, for reasons
which must surely
be obvious, I owe
a humble oblation
to Herodotus, once

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a citizen of

Halicamassus.

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comprehensive,

and practical

information and

guidelines on

aspects of building

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construction,
including
materials,
methods, structural
types,
components, and
costs, and
management
techniques.

The Construction
Chart Book

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presents the most complete data available on all facets of the U.S. construction industry: economic, demographic, employment/income, education/training, and safety and health issues. The

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book presents this information in a series of 50 topics, each with a description of the subject matter and corresponding charts and graphs. The contents of The Construction Chart Book are relevant to owners,

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contractors,
unions, workers,
and other

organizations
affiliated with the
construction
industry, such as
health providers
and workers
compensation
insurance
companies, as well

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as researchers,
economists,
trainers, safety
and health
professionals, and
industry observers.

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guide provides a

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practical

introduction to

the design of

wood structures

for buildings.

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easily understood by readers with limited experience in engineering mechanics, structural analysis, or advanced mathematics, the book includes: A comprehensive review of

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*structural
properties,
including
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discussion of
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and
criteria—stress,*

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beam functions,
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building design
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aids and
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aspiring and
practicing
architects and
engineers.*

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selling text and
reference on
wood structure
design **

Incorporates the
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information on
wind and seismic
loads

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enlightening
textbook for
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design from its
mechanical
principles,
showing the
speed and
simplicity of
effective design
from first
principles. This

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*text presents
good approximate
solutions to*

*complex design
problems, such*

*as "Wembley-
Arch" type*

*structures, the
design of thin-
walled*

*structures, and
long-span box
girder bridges.*

Other more code-

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based textbooks concentrate on relatively simple member design, and avoid some of the most interesting design problems because code compliant solutions are complex. Yet these problems

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can be addressed
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by relatively
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manageable
techniques. The
methods outlined
here enable
quick, early
stage, "ball-
park" design
solutions to be
considered, and
are also useful
for checking
finite element

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analysis
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solutions to
complex Manual

problems. The
conventions used
in the book are
in accordance
with the
Eurocodes,
especially where
they provide
convenient
solutions that
can be easily

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understood by students. Many of the topics, such as composite beam design, are straight applications of Eurocodes, but with the underlying theory fully explained. The techniques are

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illustrated
through a series
of worked Manual

examples which
develop in
complexity, with
the more
advanced
questions
forming extended
exam type
questions. A
comprehensive
range of fully

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*worked tutorial
questions are
provided at the
end of each
section for
students to
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undergraduate
course in
structural steel*

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design using the
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Factor Design
Method (LRFD).
The text also
enables
practicing
engineers who
have been
trained to use
the Allowable
Stress Design
procedure (ASD)

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*to change easily
to this more
economical and
realistic method
for
proportioning
steel
structures. The
book comes with
problem-solving
software tied to
chapter
exercises which
allows student*

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*to specify
parameters for
particular
problems and
have the
computer assist
them. On-screen
information
about how to use
the software and
the significance
of various
problem
parameters is*

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featured. The second edition reflects the revised steel specifications (LRFD) of the American Institute of Steel Construction. Design of Wood Structures- ASD/LRFD, Eighth Edition

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*Pile Design and
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Reinforced
Concrete
STEEL DESIGN
covers the
fundamentals of*

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structural steel design with an emphasis on the design of members and their connections, rather than the integrated design of buildings. The book is designed so that instructors can easily teach LRFD, ASD, or both, time-permitting. The application of

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fundamental principles is encouraged for design procedures as well as for practical design, but a theoretical approach is also provided to enhance student development. While the book is intended for junior-and senior-level engineering students, some of the

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later chapters can be used in graduate courses and practicing engineers will find this text to be an essential reference tool for reviewing current practices. Important Notice: Media content referenced within the product description or the product text may not

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Reinforced Masonry
Structures Fully
updated to the 2009
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IBC) and the 2008
Masonry Standards
Joint Committee
(MSJC-08), Design of
Reinforced Masonry*
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reinforced masonry
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*This text provides a
concise and practical
guide to timber*

design, using both

the Allowable Stress

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methods. It suits students in civil, structural, and construction engineering programs as well as engineering technology and architecture programs, and also serves as a valuable

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*resource for the
practicing engineer.*

*The examples based
on real-world design
problems reflect a
holistic view of the
design process that
better equip the
reader for timber
design in practice.*

*This new edition now
includes the LRFD
method with some
design examples*

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using LRFD for joists, girders and axially load members. is based on the 2015 NDS and 2015 IBC model code. includes a more in-depth discussion of framing and framing systems commonly used in practice, such as, metal plate connected trusses,

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*rafter and collar tie
framing, and pre-
engineered framing.
includes sample
drawings, drawing
notes and
specifications that
might typically be
used in practice.
includes updated
floor joist span
charts that are more
practical and are
easy to use. includes*

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a chapter on practical considerations covering topics like flitch beams, wood poles used for footings, reinforcement of existing structures, and historical data on wood properties. includes a section on long span and high rise wood structures

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project*

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and structural glued
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organization of
content to provide
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and all others having
a need for reliable,
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Why another textbook on the design of wood sets this book apart is its inclusion of "structural planning. " Most textbooks show only the design in wood, the

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*authors have used
virtually selection of
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textbook available, as
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at all. The textbooks
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*both the old and the
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good, but to determine
whether or not the
member is re in our
opinion each has
deficiencies. Some
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place. Following this,
the books have too few*

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solved examples.

Others spacing and continuity of the member are de omit important material or have an arrange cided, its loads are determined, and finally its ment making them difficult to use as formal shape and size are selected. teaching tools. By writing this

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book, we intend We believe that illustrating structural plan to correct such deficiencies. ning as well as detailed member and connec The prime purpose of this book is to serve as tion design is of considerable value in helping a classroom text for the engineering

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essential for the design
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The book offers a
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review of seismic
theory, code

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architect's education
would be complete
without a basic
understanding of how
structures respond to*

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new wood products.*

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mechanics, structural
analysis, or advanced
mathematics, the book
now features:*

*Consideration of the
LRFD method of*

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*structural design in
addition to the ASD
method Updated
coverage conforming
to current building
codes, design practices,
and industry standards
Expanded treatment of
wood products beyond
sawn lumber More
examples and a wider
sweep of systems and
products Equally suited*

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*Although it has been
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notes given in structural*

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steel design, it can be useful to practicing engineers. Many of the examples presented in this book are drawn from the field of design of structures.

Design of Steel Structures can be used for one or two semesters of three hours each on the undergraduate level.

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For a two-semester curriculum, Chapters 1 through 8 can be used during the first semester. Heavy emphasis should be placed on Chapters 1 through 5, giving the student a brief exposure to the consideration of wind and earthquakes in the design of buildings.

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With the new federal requirements vis a vis wind and earthquake hazards, it is beneficial to the student to have some understanding of the underlying concepts in this field. In addition to the class lectures, the instructor should require the student to submit a term project that includes the

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complete structural design of a multi-story building using standard design procedures as specified by AISC Specifications. Thus, the use of the AISC Steel Construction Manual is a must in teaching this course. In the second semester, Chapters 9 through 13 should be covered. At

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the undergraduate level, Chapters 11 through 13 should be used on a limited basis, leaving the student more time to concentrate on composite construction and built-up girders.

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all you need to
know about
structural steel
design.
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text
incorporates

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*to make the many
judgment decisions
required in
reinforced
concrete design,
and reflects the
author's
experience as both
a teacher of
reinforced
concrete design
and as a member
of various code
committees. This*

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concrete beams; strut-and-tie models; dapped ends and T-beam flanges. It also expands the discussion of STMs and adds new examples in SI units.

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*engineers and
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constructing piled
foundations. It
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practice and
details current
types of pile, piling
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structural design.*

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structural designs
in accordance with
the codes. What's*

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uses the LRFD
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factor design, and
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laminated timber,
and structural
composite/veneer
lumber. The third
section examines

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