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Manual
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***Structural
Steel
Design Mercury
Learning and
Information
The plastic***

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analysis

***method has
been used
extensively by
engineers for
designing
steel
structures.***

***Simpler
structures can
be analyzed
using the***

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***basic virtual
work
formulation,
but more
complex
frames are
evaluated with
specialist
computer
software. This
new book sets
out a method***

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***for carrying
out plastic
analysis of
complex
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without the
need for
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tools. The
book provides
an
introduction***

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***to the use of
linear
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techniques for
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analysis. This
powerful and
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method for
plastic
analysis is
important in***

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***an automated
computational
environment,
in particular
for non-linear
structural
analysis. A
detailed
comparison
between the
design codes
for the United***

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***States and
Australia and
the emerging
European
Eurocodes
enables
practising
engineers to
understand
the issues
involved in
plastic design***

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***procedures
and the
limitations
imposed by
this design
method. ****

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research in
plastic
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analytical
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new successive
approximation
method for
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collapse loads***

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analysis
STEEL
DESIGN
covers the
fundamentals
of structural
steel design
with an
emphasis on
the design of
members and***

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***their
connections,
rather than
the integrated
design of
buildings. The
book is
designed so
that
instructors
can easily
teach LRFD,***

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ASD, or both, time-permitting.

The application of fundamental principles is encouraged for design procedures as well as for practical

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design, but a theoretical approach is also provided to enhance student development. While the book is intended for junior-and senior-level engineering

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***students, some
of the later
chapters can
be used in
graduate
courses and
practicing
engineers will
find this text
to be an
essential
reference tool***

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description or
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text may not***

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a manual that
provides end
users with a
comprehensive
guide for many
of the
formulas,***

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mathematical

vectors and

conversion

factors that

are commonly

encountered

during the

design and

construction

stages of a

construction

project. It

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offers readers detailed calculations, applications and examples needed in site work, cost estimation, piping and pipefitting, and project management.

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The book also serves as a refresher course for some of the formulas and concepts of geometry and trigonometry. The book is divided into sections that

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***present the
common
components of
construction.
The first
section of the
books starts
with a
refresher
discussion of
unit and
systems***

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***measurement;
its origin and
evolution; the
standards of
length, mass
and capacity;
terminology
and tables;
and notes of
metric, U.S,
and British
units of***

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measurements

. The following

concepts are

presented and

discussed

throughout

the book:

Conversion

tables and

formulas,

including the

Metric

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***Conversion
Law and
conversion
factors for
builders and
design
professionals
Calculations
and formulas
of geometry,
trigonometry
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construction

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classification,

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and payment

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needed for soil
tests and
evaluations
and for the
design of
retaining
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will find this
practical guide
useful for
managing all
aspects of
construction.
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convert
between
building***

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square-ups
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layouts Roof,
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***Materials
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Aircraft
Structures
Steel Design
Unified Design
of Steel
Structures***
This book is

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**intended for
classroom
teaching in
architectural
and civil
engineering at
the graduate
and
undergraduate
levels.**

**Although it
has been**

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**developed
from lecture
notes given in
structural
steel design, it
can be useful
to practicing
engineers.**

**Many of the
examples
presented in
this book are**

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**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
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level. For a two-semester curriculum, Chapters 1 through 8 can be used during the first semester. Heavy emphasis should be placed on

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through 5,
giving the
student a brief
exposure to
the
consideration
of wind and
earthquakes in
the design of
buildings.
With the new**

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requirements
vis a vis wind
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the student to
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building using
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design
procedures as
specified by
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Specifications.
Thus, the use
of the AISC
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Construction Manual is a must in teaching this course. In the second semester, Chapters 9 through 13 should be covered. At 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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New materials enable advances in engineering design. This book describes a procedure for material selection in mechanical design, allowing the

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most suitable materials for a given application to be identified from the full range of materials and section shapes available. A novel approach is

**adopted not
found
elsewhere.
Materials are
introduced
through their
properties;
materials
selection
charts (a new
development)
capture the**

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**important
features of all
materials,
allowing rapid
retrieval of
information
and
application of
selection
techniques.
Merit indices,
combined with**

**charts, allow
optimisation
of the
materials
selection
process.
Sources of
material
property data
are reviewed
and
approaches to**

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**their use are
given.**

**Material
processing and
its influence
on the design
are discussed.
The book
closes with
chapters on
aesthetics and
industrial**

design. Case studies are developed as a method of illustrating the procedure and as a way of developing the ideas further.

Optimization methods are

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**perceived to
be at the heart
of computer
methods for
designing
engineering
systems. With
these
optimization
methods, the
designer can
evaluate more**

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**alternatives,
resulting in a
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**and Resistance
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Strength
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methods --
that equips
the reader
with the
necessary
skills for**

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world
structures.**

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structural, and
architectural
engineering
students
intending to
pursue careers
in structural
design and**

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and practicing
structural
engineers will
find the text
useful because
of the holistic,
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gap between engineering education and professional practice. The design of each building component is presented in a way such that the reader can see how each

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**element fits
into the entire
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design and
construction
process.
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details and
practical
example
exercises that
realistically**

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practice are
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exercises that
conform to the**

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**current codes
(ASCE 7,
ANSI/AISC
360-16, and
IBC) - Adds
coverage to
ASD and
examples with
ASD to parallel
those that are
done LRFD -
Follows a**

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approach to
structural
steel design
that considers
the design of
individual
steel framing
members in
the context of
a complete
structure.**

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Engineers
Engineering
Manual, Civil
Works
Construction
Principles of
Structural
Design
Fundamentals**

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**of Structural
Dynamics
Emphasizing
Load and
Resistance
Factor Design
Structural
Stability**

Presents the
background needed
for developing and
explaining design

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requirements. This edition (the first was 1971) reflects the formal adoption by the American Institute of Steel Construction of a specification for Load and Resistance Factor Design. For beginning and more advanced undergraduate courses in steel structures.

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principles of structural
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presents structural
analysis concepts in a

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logical order, progressing from an introduction of each topic to an analysis of statically determinate beams, trusses and rigid frames, and then to the analysis of statically indeterminate structures. Practical, solved problems integrated throughout each presentation help

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illustrate and clarify the book's fundamental concepts, while the latest examples and timely content reflect today's most current professional standards. Kassimali's

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Edition provides the foundation needed for advanced study and

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professional success.

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the undergraduate course in structural steel design using the Load and Resistance Factor Design Method (LRFD). The text also

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enables practicing engineers who have been trained to use the Allowable Stress Design procedure (ASD) 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

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which allows student 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 featured. The second edition reflects the revised steel specifications (LRFD)

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of the American
Institute of Steel
Construction.

Written specifically for
the engineering
technology/technician
level, this book offers a
straight-forward,
elementary,
noncalculus, practical
problem-solving
approach to the
design, analysis, and
detailing of structural

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steel members. Using numerous example problems and a step-by-step solution format, it focuses on the classical and traditional ASD (Allowable Stress Design) method of structural steel design (the method still most used today) and introduces the LRFD (Load and Resistance

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Factor Design) method (fast-becoming the method of choice for the future).

Introduction to Steel Structures. Tension Members. Axially Loaded Compression Members. Beams. Special Beams. Beam-Columns. Bolted Connections. Welded Connections. Open Web Steel Joists and

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LRFD: Structural

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technologists,

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architects preparing
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Completely revised
and updated, this
fourth edition of
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Steelwork: Design
to Limit State
Theory describes
the design theory
and code

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requirements for common structures, connections, elements, and frames. It provides a comprehensive introduction to structural steelwork design with detailed explanations of the principles underlying steel design. See what's in the Fourth

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Edition: All chapters
updated and
rearranged to
comply with
Eurocode 3
Compliant with the
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Coverage of both
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problems The fourth edition of an established and popular text, the book provides guidance for students of structural and civil engineering and is also sufficiently informative for practising engineers and architects who

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need an introduction to the Eurocodes.

This work on structural stability has been written primarily as a textbook to provide a clear understanding of theoretical stability behaviour. It will give readers a basic understanding of the

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design

specifications

developed by, for example, AISC, and implemented in building codes by IBC.

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text is a summary of each of the principal analysis techniques inherent in the design process and where appropriate, an explanation of the mathematical models used. The text emphasises that software should only be used if designers have the

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appropriate knowledge and understanding of the mathematical modelling, assumptions and limitations inherent in the programs they use. It establishes the use of hand-methods for obtaining approximate

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solutions during preliminary design and an independent check on the answers obtained from computer analyses. What's New in the Second Edition: New chapters cover the development and use of influence lines for determinate

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and indeterminate beams, as well as the use of approximate analyses for indeterminate pin-jointed and rigid-jointed plane-frames. This edition includes a rewrite of the chapter on buckling instability, expands on beams

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and on the use of the unit load method applied to singly redundant frames.

The x-y-z coordinate system and symbols have been modified to reflect the conventions adopted in the structural

Eurocodes. William M. C. McKenzie is

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also the author of six design textbooks relating to the British Standards and the Eurocodes for structural design and one structural analysis textbook. As a member of the Institute of Physics, he is both a chartered engineer and a chartered

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physicist and has been involved in consultancy, research and teaching for more than 35 years.

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The Steel Construction Institute
Theory, Software, and Applications

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Mechanics of
Materials
Structural Stability
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Manual, New
Construction and
Maintenance

Geschwindner's 2nd
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*edition of Unified
Design of
Steel Structures
provides an
understanding that
structural
analysis and design
are two integrated
processes as well as
the necessary skills
and knowledge in
investigating,*

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*designing, and
detailing steel
structures utilizing
the latest design
methods according
to the AISC
Code. The goal is to
prepare readers to
work in
design offices as
designers and in the
field as inspectors.*

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This new edition is compatible with the 2011 AISC code as well as marginal references to the AISC manual for design examples and illustrations, which was seen as a real advantage by the survey respondents.

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Furthermore, new sections have been added on:

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Timber, steel, and concrete are common engineering materials used in structural design. Material choice depends upon the type of structure, availability of material, and the preference of the designer. The design

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*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*

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for the design.*

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of complete
structural designs
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database comprising
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section properties,
specifications, and
design aids, has*

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*been included to
make this essential
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*This third edition of
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a concise single-
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to the design of
structural elements
in concrete, steel,
timber, masonry,
and composites. It*

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provides design principles and guidance in line with both British Standards and Eurocodes, current as of late 2007. Topics discussed include the philosophy of design, basic structural concepts,

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and material

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introduction and*

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structural design,

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and shear walls

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for Masonry

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Code Requirements

for Structural

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continuous
systems in
depth; and
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modes and**

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MDOF systems;
direct
integration
methods for
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response of
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and MDOF
systems; and
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mode synthesis.**

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