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**Asce Manual
74**

MOP 111 provides state-of-the-art technical information on the design of utility pole structures. Now in its second edition, the Structural

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Engineer's Pocket Book is a comprehensive pocket reference guide for professional and student structural engineers, particularly those taking the iStructE Part 3 Exam. The combination of tables, data, facts,

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formulae and rules of thumb make it a valuable aid in scheme design for structural engineers in the office, in transit or on site.

Concise and precise, this second edition is updated to reflect changes to the British Standards, which

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are used and referenced throughout, as well as the addition of a new section on sustainability. Other subject areas include timber, masonry, steel, concrete, aluminium and glass.

This book covers structural and

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foundation systems used in high-voltage transmission lines, conductors, insulators, hardware and component assembly. In most developing countries, the term “transmission structures” usually means lattice steel towers. The term

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actually includes a vast range of structural systems and configurations of various materials such as wood, steel, concrete and composites. This book discusses those systems along with associated topics such as structure functions

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*and configurations,
load cases for
design, analysis
techniques,
structure and
foundation
modeling, design
deliverables and
latest advances in
the field. In the
foundations section,
theories related to
direct embedment,*

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*drilled shafts,
spread foundations
and anchors are
discussed in detail.
Featuring worked
out design problems
for students, the
book is aimed at
students, practicing
engineers,
researchers and
academics. It
contains beneficial*

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information for those involved in the design and maintenance of transmission line structures and foundations. For those in academia, it will be an adequate text-book / design guide for graduate-level courses on the

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topic. Engineers and managers at utilities and electrical corporations will find the book a useful reference at work.

*Structural
Engineer's Pocket
Book, 2nd Edition
Steel Penstocks
Structures and
Foundations*

The ASCE
Page 10/106

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*Standardized
Reference
Evapotranspiration
Equation
Electrical
Transmission in a
New Age*

This collection
contains 46 papers
discussing electrical
transmission line
engineering presented
at the Electrical

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Transmission in a
New Age Conference,
held in Omaha,
Nebraska, on
September 9-12,
2002.

THE DEFINITIVE
DESIGN AND
CONSTRUCTION
INDUSTRY
SOURCE FOR
BUILDING WITH
WOOD— NOW IN

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A THOROUGHLY
UPDATED SIXTH
EDITION Since its
first publication in
1966, Timber
Construction Manual
has become the
essential design and
construction industry
resource for building
with structural glued
laminated timber.
Timber Construction

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Manual, Sixth Edition provides architects, engineers, contractors, educators, and related professionals with up-to-date information on engineered timber construction, including the latest codes, construction methods, and authoritative design recommendations.

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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 edition has been thoroughly revised to encompass:
A thorough update of

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all recommended design criteria for timber structural members, systems, and connections An expanded collection of real-world design examples supported with detailed schematic drawings New material on the role of glulam in sustainable building

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practices The latest design and construction codes, including the 2012 National Design Specification for Wood Construction, AITC 117-2010, and examples featuring ASCE 7-10 and IBC 2009 More cross-referencing to other available AITC

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standards on the
AITC website Since
1952, the
AMERICAN
INSTITUTE OF
TIMBER
CONSTRUCTION
has been the national
technical trade
association of the
structural glued
laminated timber
industry. AITC-

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recommended building and design codes for wood-based structures are considered authoritative in the United States building industry.

MOP 124 presents design guidance on structures that reshape a river channel to create reliable depths

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and widths for safe
and dependable vessel
transit.

Hydrology Handbook
The Electric Power
Engineering
Handbook - Five
Volume Set

Performance of
Physical Structures in
Hurricane Katrina &
Hurricane Rita: A

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Reconnaissance

Report

Design Loads on
Structures During
Construction

*Sponsored by the Low
Impact Development*

*Committee of the
Urban Water*

*Resources Research
Council of the*

*Environmental and
Water Resources*

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*Institute of ASCE
Permeable Pavements
is a comprehensive
resource for the
proper design,
construction, and
maintenance of
permeable pavement
systems that provide a
transportation surface
and a best
management practice
for stormwater and*

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urban runoff. A cornerstone for low impact development (LID) and sustainable site design, permeable pavements are considered a green infrastructure practice. They offer many environmental benefits, from reduced stormwater runoff and improved water

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quality to better site design and enhanced safety of paved surfaces. Commonly used for walkways, driveways, patios, and low-volume roadways as well as recreational areas, parking lots, and plazas, permeable pavements are appropriate for many different land uses,

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*particularly in highly
urbanized locations.*

*This volume
synthesizes today's
knowledge of the
technology, drawing
from academia,
industry, and the
engineering and
science communities.*

*It presents an
overview of typical
permeable pavement*

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*systems and reviews
the design
considerations.*

*Detailed design,
construction, use, and
performance
information is
provided for porous
asphalt, pervious
concrete, permeable
interlocking concrete
pavement, and grid
pavements. Fact*

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sheets and checklists help to successfully incorporate permeable pavement systems into design projects. Additional chapters summarize emerging technologies, maintenance considerations, hydrologic design approaches, key

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components for specification writing, and key areas for additional research. Appendixes include a fact sheet clarifying information on common concerns, as well as data tables summarizing water quality treatment performance and costs. Permeable

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Pavements is an essential reference for engineers, planners, landscape architects, municipalities, transportation agencies, regulatory agencies, and property owners planning to implement this best management practice for stormwater and urban

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runoff.

*Standard ASCE/SEI
24-05 provides
minimum*

*requirements for flood-
resistant design and
construction of
structures located in
flood hazard areas.*

*The understanding of
transmission line
structural loads
continues to improve*

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*as a result of
research, testing, and
field experience.
Guidelines for
Electrical
Transmission Line
Structural Loading,
Third Edition provides
the most relevant and
up-to-date information
related to structural
line loading. Updated
and revised, this*

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edition covers weather-related loads, relative reliability-based design, and loading specifics applied to prevent cascading types of failures, as well as loads to protect against damage and injury during construction and maintenance. This manual is intended to

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be a resource that can be readily absorbed into a loading policy. It will be valuable to engineers involved in utility, electrical, and structural engineering.

*Minimum Design
Loads for Buildings
and Other Structures
Recommended
Practice for Fiber-*

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*reinforced Polymer
Products for
Overhead Utility Line
Structures
Flood Resistant
Design and
Construction
The Buffeting of Tall
Structures by Strong
Winds
Field Book for
Describing and
Sampling Soils*

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

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*resulting in a better
and more cost-
effective design.*

*This guide describes
the use of modern
optimization
methods with simple
yet meaningful
structural design
examples. Optimum
solutions are
obtained and, where
possible, compared*

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*with the solutions
obtained using
traditional design
procedures.*

*A detailed
presentation is
offered of the
fundamental
equations in solid
mechanics focusing
on constitutive
equations including
quasibrittle*

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materials. Details are provided on individual numerical algorithms, with a heavier emphasis placed on the understanding of basic principles.

*- Introduction -
Affects of geological conditions of
grouting - Structural
and operations*

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*requirements of the
completed facility -
Grouting of various
lining types - Grout
materials - Grout
properties - Backfill
grouting - Contact
grouting - Grouting
equipment - Record
keeping - Quality
control - Contract
documents*

Pressure Vessel

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*Design Manual
Design of Steel
Transmission Pole
Structures
Minimum Design
Loads and
Associated Criteria
for Buildings ...
Standard Guideline
for the Collection
and Depiction of
Existing Subsurface
Utility Data*

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*Guidelines for
Electrical
Transmission Line
Structural Loading*

This report is a resource for understanding subsurface utility engineering (SUE) and bringing up-to-date practices to the application of SUE for public

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works projects.

MOP 28 serves as a basic reference, providing a thorough, up-to-date guide for hydrologists.

"This manual contains overview information on treatment technologies, installation practices, and past

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performance." -- Intr
o.

Timber

Construction

Manual

Channel Training

Works

NEHRP

Recommended

Provisions for

Seismic Regulations

for New Buildings

and Other

Structures

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British Standards
Edition

How to Select and
Work Effectively
with Consulting
Engineers

*This Standard provides
a uniform basis for the
design, detailing,
fabrication, testing,
assembly, and erection
of steel tubular
structures for electrical*

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transmission poles.

These guidelines apply to cold-formed single- and multipole tubular steel structures that support overhead transmission lines. The design parameters are applicable to guyed and self-supporting structures using a variety of foundations, including concrete

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*caissons, steel piling,
and direct embedment.
Standard ASCE/SEI
48-11 replaces the
previous edition
(ASCE/SEI 48-05) and
revises some formulas
that are based on other
current industry
standards. This
Standard includes a
detailed commentary
and appendixes with*

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explanatory and supplementary information. This Standard will be a primary reference for structural engineers and construction managers involved in designing and building electrical transmission lines, as well as engineers and others involved in the electric

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*power transmission
industry.*

*The Electric Power
Engineering
Handbook, Third
Edition updates
coverage of recent
developments and
rapid technological
growth in crucial
aspects of power
systems, including
protection, dynamics*

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*and stability, operation,
and control. With
contributions from
worldwide field
leaders—edited by L.L.
Grigsby, one of the
world's most respected,
accomplished
authorities in power
engineering—this
reference includes
chapters on:*

Nonconventional

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*Power Generation
Conventional Power
Generation
Transmission Systems
Distribution Systems
Electric Power
Utilization Power
Quality Power System
Analysis and
Simulation Power
System Transients
Power System Planning
(Reliability) Power*

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*Electronics Power
System Protection
Power System
Dynamics and Stability
Power System
Operation and Control
Content includes a
simplified overview of
advances in
international
standards, practices,
and technologies, such
as small-signal stability*

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*and power system
oscillations, power
system stability
controls, and dynamic
modeling of power
systems. Each book in
this popular series
supplies a high level of
detail and, more
importantly, a tutorial
style of writing and use
of photographs and
graphics to help the*

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reader understand the material. This resource will help readers achieve safe, economical, high-quality power delivery in a dynamic and demanding environment. Volumes in the set: K12642 Electric Power Generation, Transmission, and

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Distribution, Third

Edition (ISBN:

9781439856284)

K12648 Power

Systems, Third Edition

(ISBN:

9781439856338)

K13917 Power System

Stability and Control,

Third Edition

(9781439883204)

K12650 Electric Power

Substations

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*Engineering, Third
Edition*

(9781439856383)

*K12643 Electric Power
Transformer*

*Engineering, Third
Edition*

(9781439856291)

*Third Printing,
incorporating errata,
Supplement 1, and
expanded commentary,
2013.*

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*Atmospheric Icing of
Power Networks
Reliability-based
Design of Utility Pole
Structures
Proceedings of the
Conference, September
9-September 12, 2002,
Omaha, Nebraska
Fourth Edition
Permeable Pavements
Guidelines for
Electrical*

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Transmission Line
Structural
Loading Amer
Society of Civil
Engineers
Prepared by the
Design Loads on
Structures during
Construction
Standards
Committee of the
Codes and Standards
Activities Division of

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the Structural Engineering Institute of ASCE Design loads during construction must account for the often short duration of loading and for the variability of temporary loads. Many elements of the completed structure that provide

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strength, stiffness, stability, or continuity may not be present during construction. Design Loads on Structures during Construction, ASCE/SEI 37-14, describes the minimum design requirements for construction loads, load combinations,

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and load factors affecting buildings and other structures that are under construction. It addresses partially completed structures as well as temporary support and access structures used during construction. The loads specified are suitable for use

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either with strength design criteria, such as ultimate strength design (USD) and load and resistance factor design (LRFD), or with allowable stress design (ASD) criteria. The loads are applicable to all conventional construction

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methods. Topics include: load factors and load combinations; dead and live loads; construction loads; lateral earth pressure; and environmental loads. Of particular note, the environmental load provisions have been aligned with

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those of Minimum Design Loads for Buildings and Other Structures, ASCE/SEI 7-10. Because ASCE/SEI 7-10 does not address loads during construction, the environmental loads in this standard were adjusted for the duration of the

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construction period. This new edition of Standard 37 prescribes loads based on probabilistic analysis, observation of construction practices, and expert opinions. Embracing comments, recommendations, and experiences that

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have evolved since the original 2002 edition, this standard serves structural engineers, construction engineers, design professionals, code officials, and building owners. MOP 92 presents a current and complete inspection

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and grading protocol that offers logical step-by-step guidance for maintaining and improving the health of manhole systems. Decisions of the Surface Transportation Board of the United States
NEHRP

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Recommended
Provisions for
Seismic Regulations
for New Buildings
and Other
Structures, Part 2 -
Commentary, 2000
Edition, March 2001
Manhole Inspection
and Rehabilitation
Onsite Wastewater
Treatment Systems
Manual

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ASCE Manuals and
Reports on
Engineering Practice
*Rev. ed. of: How
to work
effectively with
consulting
engineers. 2003.
This is a
comprehensive
book that
documents the
fundamentals of*

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*atmospheric
icing and
surveys the
state of the art
in eight
chapters, each
written by a
team of
experienced and
internationally
renowned
experts. The
treatment is
detailed and*

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*richly
illustrated.
MOP 79 provides
practical,
comprehensive
guidance
regarding the
technical,
economic,
safety, and
environmental
aspects of
designing and
implementing*

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*steel penstocks
at hydroelectric
power stations.
Electric Power
Generation,
Transmission,
and Distribution
Numerical
Methods in
Structural
Mechanics
Prequalification
Criteria and
Scope of Work*

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Guide

NEHRP

Recommended

Provisions

(National

Earthquake

Hazards

Reduction

Program) for

Seismic

Regulations for

New Buildings

and Other

Structures

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Surface

Transportation

Board Reports

CI/ASCE

Standard 38-02

presents a

credible system

for classifying the

quality of utility

location

information that

is placed in

design plans. The

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Standard
addresses issues
such as: how
utility
information can
be obtained, what
technologies are
available to
obtain that
information; how
that information
can be conveyed
to the

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information
users; who
should be
responsible for
typical collection
and depiction
tasks; what
factors determine
which utility
quality level
attribute to
assign to data;
and what the

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relative costs and benefits of the various quality levels are. Used as a reference or as part of a specification, the Standard will assist engineers, project and utility owners, and constructors in developing

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strategies to reduce risk by improving the reliability of information on existing subsurface utilities in a defined manner. This Task Committee report provides standardized

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equations for
calculating
reference evapotranspiration (ET)
from weather
data and
procedures for
quality
assessment and
control of
weather data.

The purpose of
the standardized

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reference ET
equation and
calculation
procedures is to
bring
commonality to
the calculation of
reference ET and
to provide a
standardized
basis for
determining or
transferring crop

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coefficients for agriculture and landscape use. The basis of the standardized reference ET equation is the ASCE Penman-Monteith (ASCE-PM) method Manual 70. Along with applications for the ASCE-PM

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method, this report includes recommended calculations for vapor pressure, net radiation and wind speed adjustment, and guidelines on assessing weather data integrity and estimating values

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for missing data. The development of this standardized report by the Environmental and Water Resources Committee (EWRI) of ASCE, was made at the request of, and has been

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endorsed by, the
Irrigation
Association.

"MOP 104,
Second Edition,
provides updated
best practices
and design
recommendations
for the use of
fiber-reinforced
polymer (FRP)
composite poles

Where To
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and cross-arms in
conductor
support
applications"--
Subsurface
Utility
Engineering for
Municipalities
ASCE/SEI 48-11
Design of
Electrical
Transmission
Lines

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Inland Navigation
MOP 104

Featuring
contributions from
worldwide leaders
in the field, the
carefully crafted
Electric Power
Generation,
Transmission, and
Distribution, Third
Edition (part of the

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five-volume set,
The Electric Power
Engineering
Handbook)
provides
convenient access
to detailed
information on a
diverse array of
power engineering
topics. Updates to
nearly every

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chapter keep this book at the forefront of developments in modern power systems, reflecting international standards, practices, and technologies. Topics covered include: Electric

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power generation:
nonconventional
methods Electric
power generation:
conventional
methods

Transmission
system Distribution
systems Electric
power utilization
Power quality L.L.
Grigsby, a

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respected and
accomplished
authority in power
engineering, and
section editors
Saifur Rahman,
Rama
Ramakumar,
George Karady,
Bill Kersting,
Andrew Hanson,
and Mark Halpin

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present

substantially new
and revised
material, giving
readers up-to-date
information on
core areas. These
include advanced
energy
technologies,
distributed utilities,
load

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characterization and modeling, and power quality issues such as power system harmonics, voltage sags, and power quality monitoring. With six new and 16 fully revised chapters, the book supplies a high

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level of detail and, more importantly, a tutorial style of writing and use of photographs and graphics to help the reader understand the material. New chapters cover:

Water
Transmission Line

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Reliability Methods
High Voltage
Direct Current
Transmission
System Advanced
Technology High-
Temperature
Conduction
Distribution Short-
Circuit Protection
Linear Electric
Motors A volume

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in the Electric
Power Engineering
Handbook, Third
Edition. Other
volumes in the set:
K12648 Power
Systems, Third
Edition (ISBN:
9781439856338)
K13917 Power
System Stability
and Control, Third

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Edition (ISBN:
9781439883204)
K12650 Electric
Power Substations
Engineering, Third
Edition (ISBN:
9781439856383)
K12643 Electric
Power
Transformer
Engineering, Third
Edition (ISBN:

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9781439856291)

MOP 74, Fourth Edition, provides up-to-date design and loading concepts, and applications specific to transmission line design.

Pressure vessels are closed

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containers

designed to hold
gases or liquids at
a pressure
substantially
different from the
ambient pressure.

They have a
variety of
applications in
industry, including
in oil refineries,

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nuclear reactors,
vehicle airbrake
reservoirs, and
more. The
pressure
differential with
such vessels is
dangerous, and
due to the risk of
accident and
fatality around
their use, the

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design,
manufacture,
operation and
inspection of
pressure vessels is
regulated by
engineering
authorities and
guided by legal
codes and
standards.

Pressure Vessel

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Design Manual is a solutions-focused guide to the many problems and technical challenges involved in the design of pressure vessels to match stringent standards and codes. It brings

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together otherwise scattered information and explanations into one easy-to-use resource to minimize research and take readers from problem to solution in the most direct manner possible.

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Covers almost all problems that a working pressure vessel designer can expect to face, with 50+ step-by-step design procedures including a wealth of equations, explanations and data Internationally

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recognized, widely
referenced and
trusted, with 20+
years of use in
over 30 countries
making it an
accepted industry
standard guide
Now revised with
up-to-date ASME,
ASCE and API
regulatory code

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information, and
dual unit coverage
for increased ease
of international use
Getting the Best
Project
Guide to Structural
Optimization
NEHRP
Recommended
Provisions
(National

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Earthquake
Hazards Reduction
Program) for
Seismic
Regulations for
New Buildings and
Other Structures:
Commentary
AUA Guidelines for
Backfilling and
Contact Grouting
of Tunnels and

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Shafts