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A new edition is now
available. See the new
edition. Prepared by the
Task Committee on
Seismic Evaluation and
Design of the
Petrochemical

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Committee of the
Energy Division of
ASCE. This report
offers practical
recommendations
regarding the design and
safety of petrochemical
facilities during and
following an
earthquake.

~~Guidelines for Seismic
Evaluation and Design
of ...~~

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Seismic Evaluation and
Design of Petrochemical
and Other Industrial
Facilities, Third Edition,

provides practical
recommendations
affecting the safety of
new and existing
petrochemical and other
industrial facilities
during and following an
earthquake. In the area
of new design, this book
emphasizes the

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interpretation of building codes' intent and gives practical guidance on design details and considerations, which are not included in building codes.

~~Seismic Evaluation and Design of Petrochemical and Other ...~~

Guidelines for Seismic Evaluation and Design

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of Petrochemical
Facilities (Second
Edition) Task
Committee on Seismic
Evaluation and Design
of Petrochemical
Facilities of ASCE.

Abstract. Note: The
previous edition of this
book is out of print in
all formats. A new
edition is now available.

~~Petrochemical Facilities~~

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~~Books~~

These guidelines offer practical recommendations on several aspects affecting the design and ...

~~Guidelines for Seismic Evaluation and Design of ...~~

A variety of codes and standards exist for the structural and seismic design and assessment

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of petrochemical facilities. As the public becomes more aware of environmental and safety issues, there is an increasing need for a consistent approach and a technically sound, practical basis for performing evaluations.

~~Guidelines for Seismic
Evaluation and Design
of ...~~

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Seismic Design for
Petrochemical Facilities
As Per NBCC 2005

Dongxiao Wu P. Eng.

2010-05-25 Rev 1.2

Page 2 of 74 1.0 SCOPE
AND APPLICATION

This guideline is
intended to be used as
supplementary
document to
NBCC2005 for the
seismic design of
petrochemical facilities

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in Canada, with
particular focus on
Northern Alberta Fort
McMurray area.

~~Seismic Design for
Petrochemical Facilities
As Per NBCC ...~~

A major petrochemical
company needed to
requantify and reanalyze
the potential exposure of
its assets to seismic
hazards following an

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update to the Seismic Building Code of the country where its major assets are located. Once the company's seismic risk exposure was determined, the client also sought engineered solutions to mitigate potential vulnerabilities.

~~Seismic Hazard Risk
Management for Major
Petrochemical Company~~

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This revised document was prepared to provide guidance in the seismic design of new petrochemical facilities and the seismic evaluation of existing facilities. Though the makeup of the committee and the writing of this document are directed at petrochemical facilities, these guidelines are

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applicable to similar situations in other industries.

~~Guidelines for Seismic Evaluation and Design of ...~~

This guideline is intended to be used as supplementary document to NBCC2005 for the seismic design of petrochemical facilities

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in Canada, with particular focus on Northern Alberta Fort McMurray area. This document only covers Equivalent Static Force Procedure (ESFP), which is the easiest and most applicable way to implement seismic design in low seismic zone like Fort McMurray area.

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~~Seismic Design for Petrochemical Facilities As Per NBCC ...~~

uses the Seismic Design Category (SDC) concept to categorize structures according to the seismic risk they could pose.

There are six SDCs ranging from A to F with structures posing minimal seismic risk assigned to SDC A and structures posing the

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highest seismic risk
assigned to SDC F.

5.1 Seismic Design Categories

Guidelines for Seismic
Evaluation and Design
of Petrochemical
Facilities is an updated
edition in a collection of
state-of-the-practice
reports produced by the
ASCE Petrochemical
Committee. It will be

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valuable to structural design engineers, operating company personnel responsible for establishing seismic design and construction standards, and local building authorities.

~~Guidelines for Seismic Evaluation and Design of ...~~

These guidelines are intended to provide

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practical

recommendations on several areas which affect the safety of a petrochemical facility during and following an earthquake. In the area of new design, these guidelines emphasize interpretations of the intent of building codes as applied to petrochemical facilities, and practical guidance

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on design details and considerations which are not included in building codes.

~~Guidelines for Seismic Evaluation and Design of ...~~

the ASCE Anchorage Design for Petrochemical Facilities, hereafter referred to as the ASCE Anchorage Design Report. The

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information on
fabrication, installation,
and repair of anchorages
provided in this Practice
is to be used by design
engineers to develop
specifications, drawings,

~~Application of ASCE
Anchorage Design for
Petrochemical ...~~

Seismic Evaluation and
Design of Petrochemical
and Other Industrial

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Facilities, Third Edition, provides practical recommendations affecting the safety of new and existing petrochemical and other industrial facilities during and following an earthquake. In the area of new design, this book emphasizes interpreting the intent of building codes.

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for seismic evaluation
and design of ...~~

Industry Practices, PIP
STC01015, and the
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Seismic Evaluation and
Design of.

Petrochemical Facilities.
In this article, the IBC
requirements govern;
the PIP practices and
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be used for pipe ... Seis

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Resistant Buildings in
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(2nd Edition) ASCE
Emerging Technologies
in Tunnel Engineering,
Modeling, Design,
Construction, Repair,
and Rehabilitation ASD

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LRFD Wind & Seismic
Design Provisions for
Wind and Seismic ASD
LRFD Structural Wood
Design Solved Example
Problems

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A two-tier, 12-bay pipe
rack in a petrochemical
facility has
concentrically braced

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frames in the longitudinal direction and ordinary moment frames in the transverse direction.

~~Nonbuilding Structure~~ Design

Seismic Anchorage
Design for
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NBCC 2010: ASCE
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Of Petrochemical
Facilities 2nd Edition:
Seismic Design for
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2005: ACI 318-11 / ACI
318-14 Seismic Anchor
Bolt Design
Overstrength Factor
Omega

These guidelines offer
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practical

recommendations on several aspects affecting the design and safety of new and existing petrochemical facilities both during and following an earthquake. In the area of new design, this book emphasizes interpretations of the intent of building codes as applied to

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petrochemical facilities,
and gives practical
guidance on design
details and

considerations that are
not included in building
codes. For existing
facilities, the authors
present evaluation
methodologies that rely
heavily on experience
from past earthquakes,
coupled with focused
analyses. Guidelines for

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Seismic Evaluation and Design of Petrochemical Facilities is an updated edition in a collection of state-of-the-practice reports produced by the ASCE Petrochemical Committee. It will be valuable to structural design engineers, operating company personnel responsible for establishing seismic design and construction

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standards, and local
building authorities.

"This report offers
practical
recommendations
regarding the design and
safety of new and
existing petrochemical
facilities during and
following an
earthquake"--

Topics include design

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and evaluation
philosophy, seismic
hazards such as ground
shaking, fault rupture,
and tsunamis, analysis
and load definition,
primary structural
design criteria and
considerations,
walkdown evaluations
of existing facilities,
design and evaluation of
tanks at grade, and
retrofit design and

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Procedures for
seismically deficient
structures.

Prepared by the Task
Committee on Wind-
Induced Forces and
Task Committee on
Anchor Bolt Design of
the Petrochemical
Committee of the
Energy Division of
ASCE. This report
presents state-of-the-

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practice set of guidelines for the determination of wind-induced forces and the design of anchor bolts for petrochemical facilities. Current codes and standards do not address many of the structures found in the petrochemical industry. As a result, engineers and petrochemical companies have

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independently developed procedures and techniques for handling engineering issues such as the two contained in this report. A lack of standardization in the industry has led to inconsistent structural reliability, however. This volume is intended for structural design engineers familiar with

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design of industrial-type structures.

Petrochemical Facilities As Per

Seismic Design of Industrial Facilities

demands a deep knowledge on the seismic behaviour of the individual structural and non-structural components of the facility, possible interactions and last but not least the individual

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hazard potential of
primary and secondary
damages. From 26.-27.
September 2013 the

International
Conference on Seismic
Design of Industrial
Facilities firstly
addresses this broad
field of work and
research in one
specialized conference.
It brings together
academics, researchers

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and professional engineers in order to discuss the challenges of seismic design for new and existing industrial facilities and to compile innovative current research. This volume contains 50 contributions to the SeDIF-Conference covering the following topics with respect to the specific conditions

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of plant design: ·

International building codes and guidelines on the seismic design of industrial facilities ·

Seismic design of non-structural components ·

Seismic design of silos and liquid-filled tanks -

Soil-structure-interaction effects ·

Seismic safety evaluation, uncertainties and reliability analysis ·

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Innovative seismic protection systems .
Retrofitting The SeDIF-
Conference is hosted by
the Chair of Structural
Statics and Dynamics of
RWTH Aachen
University, Germany, in
cooperation with the
Institute for Earthquake
Engineering of the
Dalian University of
Technology, China.

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This report provides state-of-the-practice guidelines for the computation of wind-induced forces on industrial facilities with structural features outside the scope of current codes and standards.

This report represents the state-of-the-practice for wind load design at

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For industrial facilities and is aimed at engineers familiar with design of industrial type structures.

This document provides the comprehensive list of Chinese Industry Standards - Category: SH; SH/T; SHT.

Provides a three-tiered process for seismic

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Evaluation of existing buildings in any level of seismicity. This standard is intended to serve as a nationally applicable tool for design professionals, code officials, and building owners looking to seismically evaluate existing buildings. It considers various aspects of building performance.

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