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

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Guidelines for Seismic Evaluation and Design 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 | Books
These guidelines offer practical recommendations on several aspects affecting the design and ...

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

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 rang- ing from A to F with structures posing minimal seismic risk assigned to SDC A and structures posing the 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 valuable to structural design engineers, operating company personnel responsible for establishing seismic design and construction standards, and local building authorities.

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

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ASCE Design of Blast-Resistant Buildings in Petrochemical Facilities (2nd Edition) ASCE Emerging Technologies in Tunnel Engineering, Modeling, Design, Construction, Repair, and Rehabilitation ASD LFRD 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 frames in the longitudinal direction and ordinary moment frames in the transverse direction.

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