

# 1997 Uniform Building Code Vol 2 Structural Engineering Design Provisions

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*Moment Resistant  
Connections of Steel  
Frames in Seismic Areas*  
Federico Mazzolani  
2000-04-27 An unexpected  
brittle failure of  
connections and of  
members occurred during  
the last earthquakes of  
Northridge and Kobe. For  
this reason a heightened  
awareness developed in  
the international  
scientific community,  
particularly in the

earthquake prone  
countries of the  
Mediterranean and  
Eastern Europe, of the  
urgent need to  
investigate this topic.  
The contents of this  
volume result from a  
European project dealing  
with the 'Reliability of  
moment resistant  
connections of steel  
frames in seismic areas'  
(RECOS), developed  
between 1997 and 1999  
within the INCO-

Copernicus joint research projects of the 4th Framework Program. The 30 month project focused on five key areas: \*Analysis and syntheses of research results, including code provisos, in relation with the evidence of the Northridge and Kobe earthquakes; \*Identification and evaluation through experimental means of the structural performance of beam-to-column connections under cyclic loading; \*Setting up of sophisticated models for interpreting the connection response; \*Numerical study on the connection influence on the seismic response of steel buildings; \*Assessment of new criteria for selecting the behaviour factor for different structural schemes and definition of the corresponding range of validity in relation of the connection typologies. Construction Scheduling, Cost Optimization and Management Hojjat Adeli  
2003-09-02 Construction Scheduling, Cost

Optimization and Management presents a general mathematical formula for the scheduling of construction projects. Using this formula, repetitive and non-repetitive tasks, work continuity considerations, multiple-crew strategies, and the effects of varying job conditions on the performance of a crew can be modelled. This book presents an entirely new approach to the construction scheduling problem. It provides a practical methodology which will be of great benefit to all those involved in construction scheduling and cost optimization, including construction engineers, highway engineers, transportation engineers, contractors and architects. It will also be useful for researchers, and graduates on courses in construction scheduling and planning. *Earthquake Engineering for Structural Design*

Victor Gioncu 2010-10-04  
Developments in Earthquake Engineering have focussed on the capacity and response of structures. They often overlook the importance of seismological knowledge to earthquake-proofing of design. It is not enough only to understand the anatomy of the structure, you must also appreciate the nature of the likely earthquake. Seismic design, as detailed in this book, is the bringing together of Earthquake Engineering and Engineering Seismology. It focuses on the seismological aspects of design - analyzing various types of earthquake and how they affect structures differently. Understanding the distinction between these earthquake types and their different impacts on buildings can make the difference between whether a building stands or falls, or at least to how much it costs to repair. Covering the basis and basics of the

major international codes, this is the essential guide for professionals working on structures in earthquake zones around the world. The Seismic Design Handbook Farzad Naeim 2012-12-06 This handbook contains up-to-date existing structures, computer applications, and information on planning, analysis, and design seismic design of wood structures. A new and very useful feature of this edition of earthquake-resistant building structures. Its intention is to provide engineers, architects, is the inclusion of a companion CD-ROM disc developers, and students of structural containing the complete digital version of the handbook itself and the following very engineering and architecture with authoritative, yet practical, design information. It represents important publications: an attempt to bridge the persisting gap between 1. UBC-IBC (1997-2000) Structural advances in the theories

and concepts of Comparisons and Cross References, ICBO, earthquake-resistant design and their 2000. implementation in seismic design practice. 2. NEHRP Guidelines for the Seismic The distinguished panel of contributors is Rehabilitation of Buildings, FEMA-273, Federal Emergency Management Agency, composed of 22 experts from industry and universities, recognized for their knowledge and 1997. extensive practical experience in their fields. 3. NEHRP Commentary on the Guidelines for They have aimed to present clearly and the Seismic Rehabilitation of Buildings, FEMA-274, Federal Emergency Management Agency, 1997. concisely the basic principles and procedures pertinent to each subject and to illustrate with Management Agency, 1997. practical examples the application of these 4. NEHRP Recommended Provisions for principles and

procedures in seismic design Seismic Regulations for New Buildings and practice. Where applicable, the provisions of Older Structures, Part 1 - Provisions, various seismic design standards such as mc FEMA-302, Federal Emergency 2000, UBC-97, FEMA-273/274 and ATC-40 Management Agency, 1997.

### **Seismic Assessment and Rehabilitation of Existing Buildings S.**

Tanvir Wasti 2012-12-06  
The present volume contains a total of 23 papers centred on the research area of Seismic Assessment and Rehabilitation of Existing Buildings. This subject also forms the core of Project Sfp977231, sponsored by the NATO Science for Peace Office and supported by the Scientific and Technical Research Council of Turkey [ TUBIT AK ]. Most of these papers were presented by the authors at a NATO Science for Peace Workshop held in Izmir on 13 - 14 May, 2003 and

reflect a part of their latest work conducted within the general confines of the title of the NATO Project. Middle East Technical University, Ankara, Turkey serves as the hub of Project SfP977231 and coordinates research under the project with universities within Turkey, e. g. Istanbul Technical University and Kocaeli University, and with partner institutions in Greece and the Former Yugoslav Republic of Macedonia: A few articles have also been contributed by invited experts, who are all noted researchers in the field. Altogether, the contents of the volume deal with a vast array of problems in Seismic Assessment and Rehabilitation and cover a wide range of possible solutions, techniques and proposals. It is intended to touch upon many of these aspects separately below. Earthquakes constitute possibly the most widely spread and also the most feared of natural hazards. Recent

earthquakes within the first six months of 2003, such as the Bingol Earthquake in Turkey and the Algerian earthquake, have caused both loss of life and severe damage to property.

### **NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures**

*Improvement of Buildings' Structural Quality by New Technologies* Christian Schauer 2005-01-20  
Around 100 scientists from 21 countries contributed to the four years of assembled works contained in this volume. Launched in May 2000, the aims of this cooperative action were:  
\* to develop, combine and disseminate new technical engineering technologies \* to improve the quality of urban buildings \* to propose new technical solutions to architects and planners \* to reduce the disturbance caused by construction in urban areas and improve urban quality of life. This publication is the final

report of COST C12, and includes datasheets of key information related to mixed building technology, structural integrity under exception actions, and urban design.

**Structural Studies, Repairs and Maintenance of Heritage Architecture**

**XI** C. A. Brebbia 2009

This volume contains papers presented at the Twelfth International Conference on Structural Studies, Repairs and Maintenance of Heritage Architecture. The conference provides an ideal forum for professionals in the area to discuss problems and solutions, and exchange opinions and experiences.

Construction Materials for Civil & Structural Engineering

Houman John Parsaie 2001 In our fast paced era, it is essential to have reference materials that are relevant, current and userfriendly for any design professional. This book represents indeed the above referenced items. It is userfriendly, since the

chapters are being layed out in way that make it easy to follow the materials.

**STESSA 2003 - Behaviour of Steel Structures in Seismic Areas**

Federico Mazzolani 2018-03-29

Presenting a comprehensive overview of recent developments in the field of seismic resistant steel structures, this volume reports upon the latest progress in theoretical and experimental research into the area, and groups findings in the following key sections: · performance-based design of structures · structural integrity under exceptional loading · material and member behaviour · connections · global behaviour · moment resisting frames · passive and active control · strengthening and repairing · codification · design and application

**Cost Optimization of Structures** Hojjat Adeli 2006-11-02 While the weight of a structure constitutes a significant part of the

cost, a minimum weight design is not necessarily the minimum cost design. Little attention in structural optimization has been paid to the cost optimization problem, particularly of realistic three-dimensional structures. Cost optimization is becoming a priority in all civil engineering projects, and the concept of Life-Cycle Costing is penetrating design, manufacturing and construction organizations. In this groundbreaking book the authors present novel computational models for cost optimization of large scale, realistic structures, subjected to the actual constraints of commonly used design codes. As the first book on the subject this book: Contains detailed step-by-step algorithms Focuses on novel computing techniques such as genetic algorithms, fuzzy logic, and parallel computing Covers both Allowable Stress Design (ASD) and Load and Resistance

Factor Design (LRFD) codes Includes realistic design examples covering large-scale, high-rise building structures Presents computational models that enable substantial cost savings in the design of structures Fully automated structural design and cost optimization is where large-scale design technology is heading, thus Cost Optimization of Structures: Fuzzy Logic, Genetic Algorithms, and Parallel Computing will be of great interest to civil and structural engineers, mechanical engineers, structural design software developers, and architectural engineers involved in the design of structures and life-cycle cost optimisation. It is also a pioneering text for graduate students and researchers working in building design and structural optimization.

**Earthquake Engineering Handbook** Charles Scawthorn 2002-09-27 Earthquakes are nearly

unique among natural phenomena - they affect virtually everything within a region, from massive buildings and bridges, down to the furnishings within a home. Successful earthquake engineering therefore requires a broad background in subjects, ranging from the geologic causes and effects of earthquakes to understanding the imp

Earthquake Engineering and Structural Dynamics in Memory of Ragnar Sigbjörnsson Rajesh Rupakhety 2017-12-07

This book presents methods and results that cover and extend beyond the state-of-the-art in structural dynamics and earthquake engineering. Most of the chapters are based on the keynote lectures at the International Conference in Earthquake Engineering and Structural Dynamics (ICESD), held in Reykjavik, Iceland, on June 12-14, 2017. The conference is being organised in memory of late Professor Ragnar Sigbjörnsson, who was an

influential teacher and one of the leading researchers in the fields of structural mechanics, random fields, engineering seismology and earthquake engineering. Professor Sigbjörnsson had a close research collaboration with the Norwegian Institute of Science and Technology (NTNU), where his research was mainly focused in dynamics of marine and offshore structures. His research in Iceland was mainly focused on engineering seismology and earthquake engineering. The keynote-lecture based chapters are contributed by leading experts in these fields of research and showcase not only the historical perspective but also the most recent developments as well as a glimpse into the future. These chapters showcase a synergy of the fields of structural dynamics, engineering seismology, and earthquake engineering. In addition, some chapters in the book are based on

works carried out under the leadership and initiative of Professor Sigbjörnsson and showcase his contribution to the understanding of seismic hazard and risk in Iceland. As such, the book is useful for both researchers and practicing engineers who are interested in recent research advances in structural dynamics and earthquake engineering, and in particular to those interested in seismic hazard and risk in Iceland.

**Contractor's Index to the 1997 Uniform Building Code**

Jack M. Hageman 1997 A common-sense index to help you quickly find what you need in Volume 1 of the UBC. Topics are listed under names you use in construction. Guaranteed to help you save time looking for what you need in the Code.

*Challenges, Opportunities and Solutions in Structural Engineering and Construction* Nader Ghafoori 2009-10-29  
*Challenges,*

*Opportunities and Solutions in Structural Engineering and Construction* addresses the latest developments in innovative and integrative technologies and solutions in structural engineering and construction, including: Concrete, masonry, steel and composite structures; Dynamic impact and earthquake engineering; Bridges and **Maiden Wind Farm, Benton County** 2003

*Uniform Building Code, 1997* International Code Council 1997 The Uniform Building Code is one of the most widely adopted model building codes in the world and is a proven document meeting the needs of government units charged with enforcement of building regulation. The most recent edition, published in 1997, provides complete regulations covering all major aspects of building design and construction relating to fire and life safety and structural safety. The provisions of the 1997

Uniform Building Code were published in three volumes to help building inspectors, plans examiners, architects and structural designers locate provisions applicable to their respective fields without the need to search through all provisions. The two most popular volumes, 1 and 2, are now available from Delmar Learning. Volume 1 contains the administrative, fire- and life-safety, and field inspection provisions, including all nonstructural provisions and those structural provisions necessary for field inspections.

*Advances in Concurrent Engineering* Biren Prasad 2000-07-10 This book is a collection of papers presented at the 7th ISPE International Conference on Concurrent Engineering (CE): Research and Applications. The papers deal with different topics providing information on information modelling, CE in virtual

environment, and standards in CE. Salishan Redevelopment Project, Tacoma 2004 **Handbook of Structural Engineering** W.F. Chen 2005-02-28 Continuing the tradition of the best-selling Handbook of Structural Engineering, this second edition is a comprehensive reference to the broad spectrum of structural engineering, encapsulating the theoretical, practical, and computational aspects of the field. The authors address a myriad of topics, covering both traditional and innovative approaches to analysis, design, and rehabilitation. The second edition has been expanded and reorganized to be more informative and cohesive. It also follows the developments that have emerged in the field since the previous edition, such as advanced analysis for structural design, performance-based design of earthquake-resistant structures, lifecycle evaluation and condition assessment of existing

structures, the use of high-performance materials for construction, and design for safety.

Additionally, the book includes numerous tables, charts, and equations, as well as extensive references, reading lists, and websites for further study or more in-depth information. Emphasizing practical applications and easy implementation, this text reflects the increasingly global nature of engineering, compiling the efforts of an international panel of experts from industry and academia. This is a necessity for anyone studying or practicing in the field of structural engineering. New to this edition  
Fundamental theories of structural dynamics  
Advanced analysis  
Wind and earthquake-resistant design  
Design of prestressed concrete, masonry, timber, and glass structures  
Properties, behavior, and use of high-performance steel, concrete, and fiber-

reinforced polymers  
Semirigid frame structures  
Structural bracing  
Structural design for fire safety  
Tehachapi Renewable Transmission Project (TRTP) 2010

### **Basic Lumber Engineering for Builders**

Max Schwartz 1997  
The beam and lumber requirements for your jobs aren't always clear, especially with changing building codes and lumber products. If you need to figure any type of on-the-job lumber engineering, this book will help fill the gap between what you can find in building code span tables and the complex calculations that you need to hire a certified engineer to do. The book covers most building types and framing systems, including door, window and roof framing. And there's a chapter on connections, retrofitting with anchor bolts, framing anchors and tie-downs, plus the latest requirements for cross-bridging and anchoring. Also included

is an important chapter on designing concrete formwork -- figuring the pressures, tolerances, and thickness for plywood, Plyform, composition, and fiber-reinforced plastic. In the back of the book you'll find a computer disk with an easy-to-use version of Northbridge Software's Wood Beam Sizing "TM". Just follow the step-by-step instructions in the program to find out what size member you need for the spans and loads that you require based on the wood species that you're using. Requires Windows 3.1 or higher.

COST Action TU0905 Mid-term Conference on Structural Glass Jan Belis 2013-04-05 The application of glass as a structural material may seem surprising initially, yet pioneering glass structures were first built two decades ago already. Ever since, Structural Glass has been developing at a very high pace thanks to very intensive scientific and

industrial research and new technological developments. Right at the heart of these rapidly evolving developments, the European COST Action TU0905 'Structural Glass - Novel Design Methods and Next Generation Products' is active. With its main goals of unifying, harmonizing and boosting the ongoing developments in structural glass research, COST Action TU0905 frequently organizes international expert meetings and Training Schools, and supports scientific research missions. This proceedings volume of the COST Action TU0905 Mid-term Conference on Structural Glass offers a great insight into the latest developments in Structural Glass by means of more than 60 peer-reviewed papers by nearly 140 authors. Contributions cover all major topics in the field, ranging from in-depth material investigations to full glass structures and facades. As such, it

represents an appealing work on this very young and dynamic field, and is intended for a global readership of researchers and practitioners, including structural and civil engineers, architects, material scientists, building consultants, contractors, material suppliers and product manufacturers, as well as other professionals involved in the design and realization of structural glass projects. The COST Action TU0905 Mid-Term Conference was held as a unique event, strongly embedded in COST Action TU0905 'Structural Glass - Novel Design Methods and Next Generation Products'. As such, it reflects the Action's strong position as probably the largest Structural Glass research network worldwide, and disseminates the ultimate COST philosophy: true cooperation in Science and Technology.

Principles of Structural Design W.F. Chen

2005-10-31 Many important advances in designing modern structures have occurred over the last several years. Structural engineers need an authoritative source of information that thoroughly and concisely covers the foundational principles of the field. Comprising chapters selected from the second edition of the best-selling Handbook of Structural Engineering, **Heritage Masonry** S. Syngellakis 2013-10-02 Masonry is a traditional, highly durable mode of construction; many heritage masonry structures, built at various historical periods, have survived, to a lesser or greater extent, adverse environmental conditions, which have reduced, sometimes considerably, their integrity, strength and durability. Due to the cultural significance of heritage architecture, resources are today allocated towards their restoration and

conservation. This volume comprises distinguished contributions from the Transactions of the Wessex Institute describing research efforts towards achieving these objectives. Topics covered include: Understanding of constituent materials, modes of construction and overall mechanical behaviour; Dynamic behaviour; Sonic pulse velocity tests; Micro-vibration measurements; Failure mechanisms; Structural strength assessment; Binding material mixtures; Composition and properties of ancient mortars; Contemporary repair material; Infra-red thermography measurements; Mortars, plasters, renders and grouts. The various issues mentioned above are addressed by the present collection of scientific papers with considerable insight and thoroughness. It is thus hoped that this volume will fill a gap in the literature as a valuable

source of information and guidance to researchers and engineers working in the area of restoration and conservation of heritage masonry structures.

*Earthquake Engineering for Structural Design*

W.F. Chen 2005-11-02

Many important advances in designing earthquake-resistant structures have occurred over the last several years.

Civil engineers need an authoritative source of information that reflects the issues that are unique to the field.

Comprising chapters selected from the second edition of the best-selling Handbook of Structural Engineering, Earthquake Eng  
*Questar Southern Trails Pipeline Company, Southern Trails Pipeline Project 2000*

*Structural Dynamics*

Mario Paz 2012-12-06 The use of COSMOS for the analysis and solution of structural dynamics problems is introduced in this new edition. The COSMOS program was selected from among the various professional

programs available because it has the capability of solving complex problems in structures, as well as in other engineering fields such as Heat Transfer, Fluid Flow, and Electromagnetic Phenomena. COSMOS includes routines for Structural Analysis, Static, or Dynamics with linear or nonlinear behavior (material nonlinearity or large displacements), and can be used most efficiently in the microcomputer. The larger version of COSMOS has the capacity for the analysis of structures modeled up to 64,000 nodes. This fourth edition uses an introductory version that has a capability limited to 50 nodes or 50 elements. This version is included in the supplement, STRUCTURAL DYNAMICS USING COSMOS 1. The sets of educational programs in Structural Dynamics and Earthquake Engineering that accompanied the third edition have now been extended and updated.

These sets include programs to determine the response in the time or frequency domain using the FFT (Fast Fourier Transform) of structures modeled as a single oscillator. Also included is a program to determine the response of an inelastic system with elastoplastic behavior and a program for the development of seismic response spectral charts. A set of seven computer programs is included for modeling structures as two-dimensional and three dimensional frames and trusses.

### **Structures and Architecture**

Paulo J. Cruz 2013-06-27 Although the disciplines of architecture and structural engineering have both experienced their own historical development, their interaction has resulted in many fascinating and delightful structures. To take this interaction to a higher level, there is a need to stimulate the inventive and creative design of architectural structures

and to persuade  
*Earthquake Engineering*  
Yousef Bozorgnia  
2004-05-11 This multi-contributor book provides comprehensive coverage of earthquake engineering problems, an overview of traditional methods, and the scientific background on recent developments. It discusses computer methods on structural analysis and provides access to the recent design methodologies and serves as a reference for both professionals and res

### **Uniform Building Code**

1997 The Uniform Building Code is one of the most widely adopted model building codes in the world and is a proven document meeting the needs of government units charged with enforcement of building regulation. The most recent edition, published in 1997, provides complete regulations covering all major aspects of building design and construction relating to fire and life safety and structural safety. The

provisions of the 1997 Uniform Building Code were published in three volumes to help building inspectors, plans examiners, architects and structural designers locate provisions applicable to their respective fields without the need to search through all provisions. The two most popular volumes, 1 and 2, are now available from Delmar Learning. Volume 1 contains the administrative, fire- and life-safety, and field inspection provisions, including all nonstructural provisions and those structural provisions necessary for field inspections.

### Behaviour of Steel Structures in Seismic Areas

Federico Mazzolani  
2012-01-31 Behaviour of Steel Structures in Seismic Areas is a comprehensive overview of recent developments in the field of seismic resistant steel structures. It comprises a collection of papers presented at the seventh International Specialty

Conference STESSA 2012 (Santiago, Chile, 9-11 January 2012), and includes the state-of-the-art in both theory and practice. **Collapse Analysis of Masonry Structures Under Earthquake Actions** Tammam Taher Bakeer 2009 **Uniform Building Code Volume 2** International Code Council 1997-02 The Uniform Building Code is one of the most widely adopted model building codes in the world and is a proven document meeting the needs of government units charged with enforcement of building regulation. The most recent edition, published in 1997, provides complete regulations covering all major aspects of building design and construction relating to fire and life safety and structural safety. The provisions of the 1997 Uniform Building Code were published in three volumes to help building inspectors, plans examiners, architects and structural designers locate provisions applicable to their respective fields

without the need to search through all provisions. The two most popular volumes, 1 and 2, are now available from Delmar Learning. Volume 2 contains provisions for structural engineering design, including those design provisions formerly in the UBC Standards. These design provisions have been incorporated into the applicable chapter as divisions of the chapter. **1997 Uniform Building Code** International Conference of Building Officials 1997 Vol. 1 covers administrative, fire and life safety, and field inspection provisions. Vol. 2 is on structural engineering and design provisions. Vol. 3 contains material, testing and installation standards. **Dynamic Loading and Design of Structures** Andreas Kappos 2001-10-11 Until now, information on the dynamic loading of structures has been widely scattered. No other book has examined

the different types of loading in a comprehensive and systematic manner, and looked at their significance in the design process. The book begins with a survey of the probabilistic background to all forms of loads, which is particularly important to dynamic loads, and then looks at the main types in turn: wind, earthquake, wave, blast and impact loading. The relevant code provisions (Eurocode and UBC American) are detailed and a number of examples are used to illustrate the principles. A final section covers the analysis for dynamic loading, drawing out the concepts underlying the treatment of all dynamic loads, and the corresponding modelling techniques. Throughout there is a focus on the modelling of structures, rather than on classical structural dynamics.

Creative Systems in Structural and Construction Engineering  
Amarjit Singh 2017-11-22  
An examination of

creative systems in structural and construction engineering taken from conference proceedings. Topics covered range from construction methods, safety and quality to seismic response of structural elements and soils and pavement analysis.

### **Artificial Neural Nets and Genetic Algorithms**

Andrej Dobnikar  
2012-12-06 From the contents: Neural networks - theory and applications: NNs (= neural networks) classifier on continuous data domains- quantum associative memory - a new class of neuron-like discrete filters to image processing - modular NNs for improving generalisation properties - presynaptic inhibition modelling for image processing application - NN recognition system for a curvature primal sketch - NN based nonlinear temporal-spatial noise rejection system - relaxation rate for improving Hopfield network - Oja's NN and

influence of the learning gain on its dynamics Genetic algorithms - theory and applications: transposition: a biological-inspired mechanism to use with GAs (= genetic algorithms) - GA for decision tree induction - optimising decision classifications using GAs - scheduling tasks with intertask communication onto multiprocessors by GAs - design of robust networks with GA - effect of degenerate coding on GAs - multiple traffic signal control using a GA - evolving musical harmonisation - niched-penalty approach for constraint handling in GAs - GA with dynamic population size - GA with dynamic niche clustering for multimodal function optimisation Soft computing and uncertainty: self-adaptation of evolutionary constructed decision trees by information spreading - evolutionary programming of near optimal NNs

Drift-Driven Design of Buildings Santiago Pujol  
2022-04-27 This book summarizes the most essential concepts that every engineer designing a new building or evaluating an existing structure should consider in order to control the damage caused by drift (deformation) induced by earthquakes. It presents the work on earthquake engineering done by Dr. Mete Sozen and dozens of his collaborators and students over decades of experimentation, analysis, and reconnaissance. Many of the concepts produced through this work are integral part of earthquake engineering today. Nevertheless, the connection between the concepts in use today and the original sources is not always explained. Drift-Driven Design of Buildings summarizes Sozen's research, provides common language and notation from subject to subject, provides examples and supporting data, and adds historical context

as well as class notes that were the result of Sozen's dedication to teaching. It distills reinforced concrete building design to resist earthquake demands to its essence in a way that no other available book does. The recommendations provided are not only essential but also of the utmost simplicity which is not the result of uninformed neglect of relevant parameters but rather the result of careful consideration and selection of parameters to retain only those that are most critical. Features: Provides the reader with a clear understanding of the essential features that control the seismic response of RC buildings

Describes a simple (perhaps the simplest) seismic design method available Includes the underlying hard data to support and explain the methods described Presents decades of work by one of the most prolific and brilliant civil engineers in the United States in the second half of the 20th century Drift-Driven Design of Buildings serves as a useful guide for civil and structural engineering students for self-study or in-class learning, as well as instructors and practicing engineers. **Questar Southern Trails Pipeline Company Southern Trails Pipeline Project** United States. Federal Energy Regulatory Commission 2000