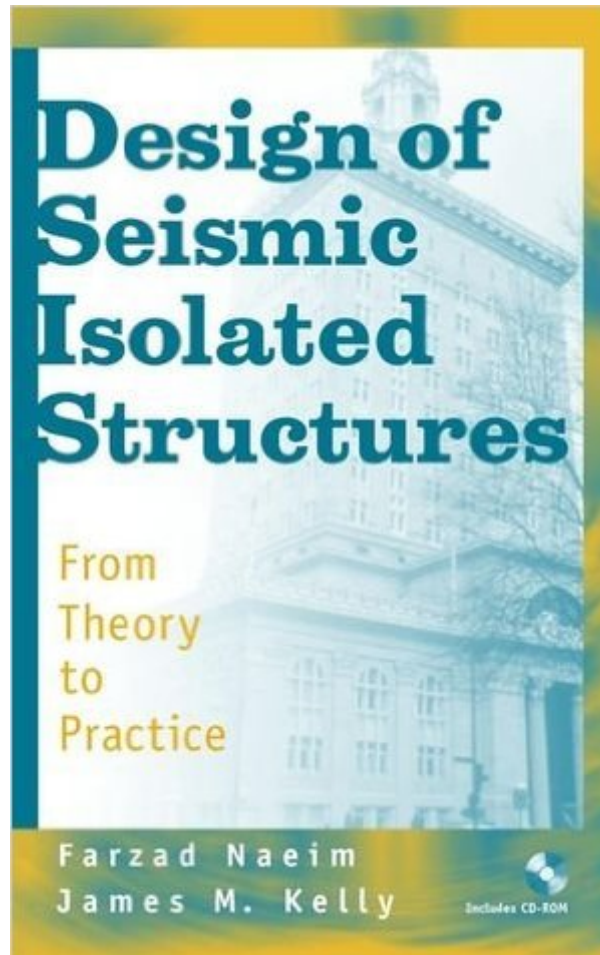


The book was found

Design Of Seismic Isolated Structures: From Theory To Practice



Synopsis

Complete, practical coverage of the evaluation, analysis, and design and code requirements of seismic isolation systems. Based on the concept of reducing seismic demand rather than increasing the earthquake resistance capacity of structures, seismic isolation is a surprisingly simple approach to earthquake protection. However, proper application of this technology within complex seismic design code requirements is both complicated and difficult. Design of Seismic Isolated Structures provides complete, up-to-date coverage of seismic isolation, complete with a systematic development of concepts in theory and practical application supplemented by numerical examples. This book helps design professionals navigate and understand the ideas and procedures involved in the analysis, design, and development of specifications for seismic isolated structures. It also provides a framework for satisfying code requirements while retaining the favorable cost-effective and damage control aspects of this new technology. An indispensable resource for practicing and aspiring engineers and architects, Design of Seismic Isolated Structures includes:

- * Isolation system components.
- * Complete coverage of code provisions for seismic isolation.
- * Mechanical characteristics and modeling of isolators.
- * Buckling and stability of elastomeric isolators.
- * Examples of seismic isolation designs.
- * Specifications for the design, manufacture, and testing of isolation devices.

Book Information

Hardcover: 304 pages

Publisher: Wiley; HAR/CDR edition (March 25, 1999)

Language: English

ISBN-10: 0471149217

ISBN-13: 978-0471149217

Product Dimensions: 6.4 x 0.8 x 9.4 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars [See all reviews](#) (4 customer reviews)

Best Sellers Rank: #1,424,825 in Books (See Top 100 in Books) #71 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Seismic Design](#) #76 in [Books > Science & Math > Earth Sciences > Geology > Volcanology](#) #191 in [Books > Science & Math > Earth Sciences > Seismology](#)

Customer Reviews

This book is suitable for students and engineering. The author brings us through the history of

base isolation. From the simplest rolled rocks in the past to the new technique now. Let us understand the simple theory of base isolation and its application in the world. The code provisions for seismic isolation compares the 3 design codes and its purpose in U.S. The example explains the code inadequate and too complex for practical use. The code now had made it simple! The best part of this book is his design details; Dr. Kelly had isolator design and construction experience for years. He points out many details that a new design may not be considered or even noticed. It also offers specifications for isolation manufacturing and testing. With this book in hand, we can know all about base isolation.

Perhaps Dr. Naeim and Dr. Kelly should have called their book "Everything the structural designer always wanted to know about seismic isolation...but was too shy to ask". In my opinion, this is an excellent book that resumes the state-of-the-art of seismic isolation and the design of seismic isolated structures, within the framework of existing codes. It makes available to designers in an abridged and simple way, a lot of information that, while partially available before in trade articles, books, codes and papers, it had never been put together by an expert in a single document. I personally have been related to seismic isolation for the last ten years, and would have benefited a lot should Drs. Naeim and Kelly decided to write their book sooner... or at least, should I have taken notice of it earlier. It certainly would have saved me many, many hours of reading and studying! If you are an structural designer, an architect or a civil engineer and whether in an occasional, frequent or daily basis have to participate in the design, review or construction of seismic isolated structures, you cannot miss this book. Carlos Salinas, C.E. Monterrey, Mexico

recommended for those who want to understand the behavior of insulators in buildings. The focus of the book is not the design

This book is very interesting and useful

[Download to continue reading...](#)

Design of Seismic Isolated Structures: From Theory to Practice ASD/LRFD Wind and Seismic: Special Design Provisions for Wind and Seismic with Commentary (2008) Seismic Design of Building Structures: A Professional's Introduction to Earthquake Forces and Design Details Seismic Design of Building Structures: A Professional's Introduction to Earthquake Forces and Design Details, 8th ed. Traffic Signal Systems Operations and Design: An Activity-Based Learning Approach (Book 1: Isolated Intersections) Seismic Loads: Guide to the Seismic Load Provisions of

ASCE 7 - 10 Seismic Loads: Guide to the Seismic Load Provisions of ASCE 7-05 Seismic
Stratigraphy, Basin Analysis and Reservoir Characterisation (Handbook of Geophysical Exploration:
Seismic Exploration) Seismic Design of Building Structures, 10th Ed Response Spectrum Method in
Seismic Analysis and Design of Structures (New Directions in Civil Engineering) Displacement
Based Seismic Design of Structures ISO 2859-2:1985, Sampling procedures for inspection by
attributes - Part 2 : Sampling plans indexed by limiting quality (LQ) for isolated lot inspection The
Whartons' Stretch Book: Featuring the Breakthrough Method of Active-Isolated Stretching Isolated:
A Jason King Thriller (Jason King Series Book 1) Design and Analysis of Composite Structures:
With Applications to Aerospace Structures SEAOC Structural/Seismic Design Manual 2009 IBC Vol
2: Building Design Examples for Light-Frame, Tilt-up and Masonry Algorithms: C++: Data
Structures, Automation & Problem Solving, w/ Programming & Design (app design, app
development, web development, web design, jquery, ... software engineering, r programming)
Contesting the Subject: Essays in the Postmodern Theory and Practice of Biographical Criticism
(The Theory and Practice of Biography a) Database Design and Relational Theory: Normal Forms
and All That Jazz (Theory in Practice) Seismic Principles Practice Exams for the California Special
Civil Engineer Examination, 5th Ed

[Dmca](#)