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Advanced Seismic Assessment Guidelines . Paolo Bazzurro . Department of Civil and Environmental Engineering .

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Stanford University ... Pacific Earthquake Engineering Research (PEER) Center.
Any ...

(PDF) Advanced seismic assessment guidelines

The objective of this document is to provide guidelines for the assessment of the seismic performance of existing

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structures that are common in the building inventory of major electric utility such as Pacific Gas and Electric (PG&E), a co-sponsor of the PEER Lifelines Program. Predicting the post-earthquake functionality of such structures is a

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Guidelines - Peer Apps

This document presents guidelines for a practical assessment of the seismic performance of existing structures. Performance is measured in terms of the likelihood that a building, given a level of ground motion, can be in any one of five structural limit states after an earthquake: onset-of-damage, green

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tag, yellow tag, red tag, and collapse.

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Introduction The objective of this document is to provide guidelines for the assessment of the seismic performance of existing structures that are common in the building inventory of major

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electric utility such as Pacific Gas and Electric (PG&E), a co-sponsor of the PEER Lifelines Program.

Advanced Seismic Assessment Guidelines - MAFIADOC.COM

Paolo Bazzurro, C. Allin Cornell, Charles Menun, Maziar Motahari, and Nicolas Luco, "Advanced Seismic Assessment

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Guidelines”, July, 2004. (To be submitted for publication as a PEER report.)

Final Project Summary — PEER Lifelines Program

PEER research on seismic performance assessment is approaching the end of its second year. Much has been accomplished, but the end of the road

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still looks far away. In this brief article we describe the foundation on which performance assessment can be based, and the major challenges to the PEER research community on the way to expected success.

Progress and Challenges in Seismic Performance Assessment

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Advanced Seismic Assessment Guidelines, applicable to utility buildings, were developed by Stanford University (Bazzurro et al. 2004) as part of the PEER Lifelines Program, Building Vulnerability Studies (Project Task Number 507). The subject project, Task 508, applies these state-of-the-art guidelines in a detailed fashion to two

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example buildings, each with differing features and functions within the electric and gas utility network.

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PEER 2006/05 - Advanced Seismic Assessment Guidelines P. Bazzurro, C. Cornell, C. Menun, M. Motahari, N. Luco

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-Report PEER 2006/04 - Probabilistic Seismic Evaluation of Reinforced Concrete Structural Components and Systems T-H. Lee, K. Mosalam -Report PEER 2006/03 - Performance of Lifelines Subjected to Lateral Spreading

PEER Reports | Pacific Earthquake Engineering Research Center

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E) Any building that has undergone a comprehensive seismic retrofit since 2000 (as confirmed by the SAB per UC Seismic Program Guidelines) is exempted from further Policy-required evaluation or retrofit for 25 years from the date of the retrofit design standard being used (e.g., 2017 if ASCE 41-17 is used), except when the SAB determines

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re ...

RD4.3: UC Seismic Program Guidelines | UCOP

The Guidelines provide methods for two levels of assessment: Initial Seismic Assessment, for a broad indication of the likely level of seismic performance of a building, and Detailed Seismic

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Assessment, for a more comprehensive assessment. Both seismic assessment methods rate a building as a percentage of the new building standard applied to an equivalent new building on the same site.

The Seismic Assessment of Existing Buildings

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PEER-2005/11 Van Nuys Hotel building testbed report: exercising seismic performance assessment, Krawinkler, Helmut. PEER-2005/12 PEER testbed study on a laboratory building: exercising seismic performance assessment, Comerio, Mary C. PEER-2005/13 Stochastic characterization and decision bases

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under time-dependent aftershock risk in performance ...

The Earthquake Engineering Online Archive NISEE e-Library

PEER-2006/02 Pacific Earthquake Engineering Research Center Highway ...
Ashford, Scott A.; Juirnarongrit, Teerawut.
PEER-2006/04 Probabilistic seismic

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evaluation of reinforced concrete structural components and systems, Lee, Tae-Hyung; Mosalam, Khalid M. PEER-2006/05 Advanced seismic assessment guidelines, Bazzurro, Paolo ...

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Earthquake Engineering (PEER) Lifelines Program, built on the methods and concepts described above to develop Advanced Seismic Assessment Guidelines (Bazzurro et al. 2004). The Guidelines were developed for the seismic assessment of utility buildings but are applicable to most types of structures. Features of the Guidelines

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include:

Probability-Based Seismic Assessment of Buildings ...

We adopted PEER's performance-based assessment, which yielded a statistical view of expected seismic responses of skew-angled bridges. It is anticipated that these results will play a role in

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future efforts on developing improved guidelines for seismic design and modeling of skewed bridges.

Performance Based Seismic Assessment of Skewed Bridges ...

Within PEER, this project is integrally related to Task 507, the development of the Advanced Seismic Assessment

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Guidelines. Task 508 is similar to Task 2 of this project in its investigation of the use of the guidelines, in which a steel moment frame building was studied. This project applies the guidelines to a different type of construction, a

Final Project Summary — PEER Lifelines Program

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Bazzurro P, Cornell CA, Menun CA, Motahari M, Luco N (2006) Advanced seismic assessment guidelines, PEER 2006/05. Pacific Earthquake Engineering Research Center, University of California, Berkeley. Google Scholar

Assessment of the seismic capacity of mainshock-damaged ...

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Reliable assessment and effective improvement of seismic performance of structures are two major challenges in earthquake engineering research which need to be addressed properly through detailed investigations and innovative approaches.

Advances in Seismic Performance

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Assessment and Improvement ...

Guidelines and Procedures for Implementation of the Executive Order on Seismic Safety of New Building Construction PDF 16MB: NISTIR 4852 (ICSSC RP 2.1-A) Guidelines for Design of Structures for Vertical Evacuation from Tsunamis: FEMA P646 : Guidelines for Performance-Based Seismic Design of

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Tall Buildings: PEER 2010/05

NEHRP - New Buildings

2015 News. 12/22/15 - New PEER Report
2015/11: "Selection and Scaling of
Ground Motions for Nonlinear Response
History Analysis of Buildings in
Performance-Based Earthquake
Engineering" 12/10/15 - PEER Receives

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ATC-SEI Award for TBI Guidelines
12/08/15 - New PEER Report 2015/10:
“Structural Behavior of Column-Bent Cap
Beam-Box Girder Systems in Reinforced
Concrete Bridges Subjected to ...

News | Pacific Earthquake Engineering Research Center

The seismic vulnerability and inadequate

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behaviour of existing school buildings observed during past earthquakes in Italy have raised awareness of the...

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