



Next-Generation Performance-Based Seismic Design Guidelines - Program Plan for New and Existing Buildings (Fema 445 August 2006)

By Federal Emergency Management Agency U.S.

Createspace. Paperback. Condition: New. This item is printed on demand. 152 pages. Dimensions: 11.0in. x 8.5in. x 0.3in. One of the primary goals of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) is prevention or mitigation of this country's losses from hazards that affect the built environment. To achieve this goal, we as a nation must determine what level of performance is expected from our buildings during a severe event, such as an earthquake, blast, or hurricane. To do this, FEMA contracted with the Applied Technology Council (ATC) to develop next-generation performance-based seismic design procedures and guidelines, which would allow engineers and designers to better work with stakeholders in identifying the probable seismic performance of new and existing buildings. These procedures could be voluntarily used to: (1) assess and improve the performance of buildings designed to a building code life safety level, which would, in all likelihood, still suffer significant structural and nonstructural damage in a severe event; and (2) more effectively meet the performance targets of current building codes by providing verifiable alternatives to current prescriptive code requirements for new buildings. Advancement of present-generation performance-based seismic design procedures is widely recognized in the earthquake engineering community as an...



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Reviews

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