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Seismic Evaluation And Retrofit Of Existing Buildings: ASCE/SEI 41-13 (Standard) (Asce Standard)



Synopsis

Seismic Evaluation and Retrofit of Existing Buildings describes deficiency-based and systematic procedures that use performance-based principles to evaluate and retrofit existing buildings to withstand the effects of earthquakes. This next-generation standard combines the evaluation and retrofit process and puts forth a three-tiered process for seismic evaluation according to a range of building performance levels from collapse prevention to operational that marry targeted structural performance with the performance of nonstructural elements. The deficiency-based procedures allow the evaluation and retrofit effort to focus on specific potential deficiencies deemed, on the basis of past earthquake observations, to be of concern for a permissible set of building types and heights. The systematic procedure, applicable to any building, sets forth a methodology to evaluate the entire building in a rigorous manner. This standard updates and replaces the previous Standard ASCE/SEI 41-06, Seismic Rehabilitation of Existing Buildings, as well as Standard ASCE/SEI 31-03, Seismic Evaluation of Existing Buildings.

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