



Documentation for Assessment of Modal Pushover- Based Scaling Procedure for Nonlinear Response History Analysis of ?Ordinary Standard? Bridges

By U. S. Department of the Interior

CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 62 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. The earthquake engineering profession is increasingly utilizing nonlinear response history analyses (RHA) to evaluate seismic performance of existing structures and proposed designs of new structures. One of the main ingredients of nonlinear RHA is a set of ground-motion records representing the expected hazard environment for the structure. When recorded motions do not exist (as is the case for the central United States), or when high-intensity records are needed (as is the case for San Francisco and Los Angeles), ground motions from other tectonically similar regions need to be selected and scaled. The modalpushover- based scaling (MPS) procedure recently was developed to determine scale factors for a small number of records, such that the scaled records provide accurate and efficient estimates of true median structural responses. The adjective accurate refers to the discrepancy between the benchmark responses and those computed from the MPS procedure. The adjective efficient refers to the record-to-record variability of responses. Herein, the accuracy and efficiency of the MPS procedure are evaluated by applying it to four types of existing ordinary standard bridges typical of reinforced-concrete bridge construction...



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