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pushover analysis of a multi-degree-of-freedom model Same year, Hosseini and Yaghoobi Vayeghan conducted a study on the design verification of an existing 8-story irregular steel building by both pushover and three-dimensional dynamic analyses [2] In 2007, Goulet and

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The performance of Modal Pushover Analysis (MPA) in predicting the inelastic seismic response of multi-span concrete bridge is investigated. The bridge is subjected to lateral forces distributed proportionally over the span of the bridge in accordance to the product of mass and displaced shape.

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The proposed procedure enhances the seismic demands of conventional pushover analysis methods by combining the advantages of 'multi-modal' and 'adaptive' pushover procedures. The presented method, which has been named the multi-mode adaptive displacement-based pushover (MADP) analysis procedure, estimates the seismic demands of buildings by using several multi-stage modal pushover ...

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Pushover analysis of a reinforced concrete shear wall based on multi-layer shell element Abstract: To study the mechanical properties of reinforced concrete shear wall structures under rare earthquakes, pushover analysis of a single reinforced concrete shear wall (12.8 m tall) is presented in this paper, which is simulated by nonlinear multilayer shell element.

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to seismic loading led to the pushover analysis. Pushover analysis is based on the assumption that structures oscillate predominantly in the first mode or in the lower modes of vibration during a seismic event. This leads to a reduction of the multi-degree-of-freedom, MDOF system, to an equivalent single-degree-

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A multi-mode adaptive pushover analysis procedure for This presented pr ocedure (IRSA) is an advanced multi-mode pushover analysis that takes into account the effects of higher m

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performance evaluation of a multi storey car parking structure under strength irregularities by push over analysis Vasanth Acharya, H. L. Suresh, India Pvt 2014 PERFORMANCE EVALUATION OF PURBALINGGA POPULATION AND CIVIL SOCIETY DEPARTMENT WITH PUSHOVER ANALYSIS

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In this paper, a simple but effective analysis procedure to estimate seismic capacities of multi-span continuous bridge structures is proposed on the basis of modal pushover analysis considering all the dynamic modes of structure. Unlike previous studies, the proposed method eliminates the coupling effects induced from the direct application of modal decomposition by introducing an identical ...

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