



Revista de Ingeniería Sísmica

ISSN: 0185-092X

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Sociedad Mexicana de Ingeniería Sísmica

México

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Respuesta torsional de edificios en el marco del análisis pushover
Revista de Ingeniería Sísmica, núm. 75, 2006, pp. 47-67
Sociedad Mexicana de Ingeniería Sísmica
Distrito Federal, México

Available in: <http://www.redalyc.org/articulo.oa?id=61807503>

Abstract

The classical pushover analysis is used to show the effects of eccentricity, orthogonal lateral forces, and torsion-design amplification factors on the nonlinear static lateral response of low-rise torsionally unbalanced (TU) frame buildings. The purpose of this study is to identify if this analysis captures the same effects of the main torsion variables that have been observed through previous dynamic nonlinear analysis. Computations show that pushover analysis results are consistent with the conclusions derived from three dimensional dynamic nonlinear analyses. This supports the hypothesis that pushover analysis can be a valuable tool for either design or evaluation of three dimensional frame buildings with twist.

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