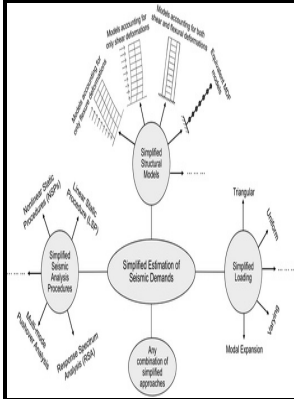# Non linear seismic response of asymmetric buildings.

University of East London - Influence of earthquake direction on the seismic response of irregular plan RC frame buildings

Description: -
-Non linear seismic response of asymmetric buildings.
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Based on the obtained findings, the conceptual gaps in the current prescriptions given by the OPCM3431 and the EC8 on the evaluation method for the irregularity level produced by the mass and stiffness asymmetry and on the definition of the range of applicability of the linear analyses methods are…. In: Proceedings of 15th world conference on earthquake engineering, paper no.

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Influence of earthquake direction on the seismic response of irregular plan RC frame buildings. Some of these problems encountered in the literature include a the existence of several definitions of uncoupled torsional to lateral frequency ratio b an arbitrary selection of structural parameters in a parametric analysis resulting in a physically inadmissible structure and c the effect of nonlinearity. The latter can handle any number and orientation of columns with the assumed nonlinear stiffness properties.

Prediction of the largest peak nonlinear seismic response of asymmetric buildings under bi

Electronic or print copies may not be offered, for sale or otherwise, to anyone. Comments on the code prescriptions relative to the number of accelerograms needed in the nonlinear time-history analyses and on the proposed method for modifying the seismic response obtained with a pushover analysis in order to account for the torsional behaviour of asymmetric-plan buildings are also presented.

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Computer programs are written in FORTRAN for both parametric and numerical model analyses. The envelope curve for each nonlinear spring of all members is symmetric over the positive and negative ranges.

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