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Development of Seismic Fragility Curves of RC Infilled Frame Buildings in Jordan

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Abstract: This article examines the seismic fragility of low- and mid-rise RC infilled frame buildings in Jordan comprising stone-concrete infill panels. Three dimensional models of 2, 4 and 6 story regular and irregular representative buildings were developed. Pushover analyses were performed to construct capacity curves of the model buildings. Four damage states were considered: slight, moderate, extensive and complete and damage state thresholds were assigned, using expert opinion, based on yield and ultimate spectral displacements of the capacity spectra. Sets of preliminary fragility curves were developed to quantify earthquake damage probabilities in terms of spectral displacements. (PDF) Development of Seismic Fragility Curves of RC Infilled Frame Buildings in Jordan. Available from: https://www.researchgate.net/publication/333242502_Development_of_Seismic_Fragility_Curves_of_RC_Infilled_Frame_Buildings_in_Jordan [accessed Jun 28 2019].