

عنوان مقاله:

NUMERICAL STUDIES ON RESIDUAL SEISMIC CAPACITY OF RC FRAMES WITH UNREINFORCED BLOCK WALL BASED ON THEIR CRACK PATTERNS

محل انتشار:

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خلاصه مقاله:

In this study, two Concrete Block (CB) infilled reinforced concrete frames which had been experimentally investigated before are numerically simulated to develop pre- and postearthquake seismic evaluation method. In these simulations, full scale, one bay, single story specimens having different axial loads in columns are analyzed under cyclic and push-over loading. Then, the contribution of Unreinforced Masonry (URM) walls to overall behavior is examined. Parameters including stiffness, ductility, strength, crack patterns and widths in walls and frames which may be of great significance in terms of post-event assessment are also studied. In this paper, the relationship between observed damage and seismic performance mainly focusing on crack width in URM walls is discussed by means of smeared crack, homogenized, isotropic modeling.

کلمات کلیدی:

masonry infill, RC frame, residual capacity, crack width

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