

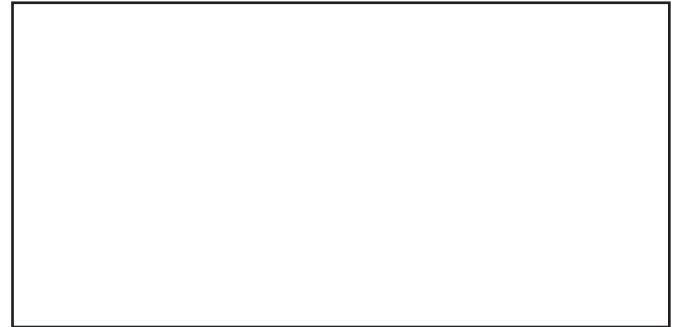


Performance Evaluation of Reinforced Concrete Frame Structure In Sap 2000

Muhammad Waseem Shah

Abstract:

The Kashmir 2005 earthquake which has devastated a large part of the Khyber Pakhtunkhwa Province (Pakistan) has raised questions about the adequacy of framed structures to resist strong motions, since many buildings suffered great damage or collapsed. To evaluate the performance of framed buildings under future expected earthquakes, a nonlinear static pushover analysis has been conducted. To achieve this objective, a 4 story frame structure was analysed. The results obtained from this study show that properly designed gravity loaded frames will perform well under seismic loads up to some level. Certain response parameters predicted by each pushover analysis resulting from Gravity & Earthquake load patterns were compared with each other. The primary observations from the study showed that the accuracy of the pushover results depends strongly on the load path, properties of the structure and the characteristics of the ground motion. Pushover analyses were performed by SAP2000. The response parameters were estimated by applying the target displacement at a control node. The accuracy of the predictions depends upon the approximations involved in the theory of the procedures, structural properties and ground motion characteristics



Biography:

Muhammad Waseem (born 29 August 1987) is a Pakistani professional boxer who challenged for the IBF flyweight title in 2018. Known for his quick and swift style of boxing, Waseem is nicknamed "Falcon".

Recent Publications:

1. Muhammad Waseem Shah, Food Sci Nutr. 2020
2. Muhammad Waseem Shah, Pathol Res Pract. 2019
3. Muhammad Waseem Shah, Microb Drug Resist. 2019
4. Muhammad Waseem Shah, J Glob Antimicrob Resist. 2019
5. Muhammad Waseem Shah, Nat Plants. 2018

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