

Abstract

This study deals with the assessment of low and mid rise multi-story masonry buildings. These ones were built in different period of time which let them to be vulnerable to seismic hazard. In order to prevent any damages, seismic vulnerability study was conducted using the “Vulnerability Index Method”. This one is based on buildings survey following past earthquakes. Seismic scenarios could be derived using vulnerability functions so vulnerability curves were provided. The obtained and given results under GIS were in accordance with in situ observations.

Key words: Masonry buildings, earthquake, vulnerability index, vulnerability curves, Algeria.