عنوان مقاله:

PERFORMANCE STUD Y OF CONCRETE STRUCTURES OF HOSPITALS IN KERMAN, IRAN

محل انتشار:

هفتمین کنفرانس بین المللی زلزله شناسی و مهندسی زلزله (سال: 1394)

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خلاصه مقاله:

Studying the vulnerability of buildings such as hospitals for decreas ing the damages and immediate occupancy of therapeutic centers as well as hospitals, after the average earthquakes, is of paramount importance. In this ar ticle, two concrete structures of hospitals in Kerman as the most important hospitals of this provincce are evaluated by the non– linear static anal ysis and the Instruction for Seismic Rehabilitation of E xisting Buildings NO.360 (First Revision) The first three stories' structure (with 3000 m2 area) w as designed and used in 1986 and 2002, respectively as well, the second,third and the fourth is o ne and two story's structure (with 3000, 10 00, 500 m2 area) was designed in 2013 and it is now un der the construction. The performance of these hospitals in the Basic Safety Earthquake 1 (BSE 1) and in the Basic Safety Earthquake 2 (BSE 2) m ust be associated with immediate occupancy and life safety level, respectively. Based on the related a ssessment, it is shown that the first structure is not able to stand the target displacement of BSE 1 and it becomes instable in a displacement less than the target d isplacement as its factors will be studied in– detail. One of the other aims of this article was to study the design of the very high important build ings such as hospitals considering the current codes of designing in Iran; means that whether these codes could provide the real needs of the aforementioned buildings as the immediate occupancy during the average earthquakes and life safety level during the sev ere earthquakes (or not). So, studying these h ospitals showed that the codes of seismic .design could pr ovide the real performance of these structures in the events such as average earthquakes

کلمات کلیدی:

Concrete Structures of Hospitals, Seismic Rehabilitation, Performance Based Design, Pushover Analysis, Target Displacement