

## عنوان مقاله:

Probability aspects in comparing typical methods for seismic design of concrete frames

## محل انتشار:

دومین کنگره بین المللی سازه ، معماری و توسعه شهری (سال: ۱۳۹۳)

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## خلاصه مقاله:

Seismic design on reliability analysis basis has been recently accepted worldwide. Today, in most regulations and research aspects, three methods like Force-Based, Displacement-Based and Hybrid Force/Displacement-Based Design are discussed. For many years, buildings have been designed according to Force-Based seismic design method; using an equivalent static shear force as a seismic lateral force, but these days Displacement-Based method is usually used according to a corresponding roof displacement demand, and the third method is hybrid seismic design method that used in this research. The paper will outline and compare the three methods, and discuss them in the context of traditional force-based seismic design and earlier design approaches which contained some elements of performance based design. These three methods are compared to evaluate the advantages and disadvantages of the design methods to considering probability aspects. In order to compare the approaches, a ۵-story building was designed and controlled by these three methods and it was shown that obtained results are relatively different.

## کلمات کلیدی:

Reliability analysis, Seismic design, Force method, Displacement and composite method

## لینک ثابت مقاله در پایگاه سیویلیکا:

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