

## عنوان مقاله:

plastic hinge rotation of reinforced concrete buildings subjected to near -fault earthquakes having fling step using artificial neural network

## محل انتشار:

اولین کنفرانس بین المللی ساخت ساز شهری در مجاورت گسل های فعال (سال: 1390)

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## خلاصه مقاله:

designers of reinforced concrete structures often make use of plastic hinge deformations in order to absorb energy and increase ductility of their designs . Structures designed to develop plastic hinges in normal far-fault earthquakes, might not respond as well to near fault earthquakes which contain fling step . the objective of this study is to investigate the adequacy of artificial neural networks ANN to determine the plastic hinge rotation and ductility of RC building under the near fault earthquakes. for this purpose four ANN models are proposed to estimate the plastic hinge rotation and ductility of RC buildings in two directions in terms of earthquake and building characteristics

## کلمات کلیدی:

plastic hinge rotation, ductility , artificial neural networks , near fault earthquake

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/119485>

