

عنوان مقاله:

DETERMINATION OF ATTENUATION RELATIONSHIPS USING AN OPTIMIZATION PROBLEM

محل انتشار:

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خلاصه مقاله:

The main objective of this study is to present new method on the basis of genetic algorithms for attenuation relationship determination of horizontal peak ground acceleration and spectral acceleration. The proposed method employs the optimization capabilities of genetic algorithm to determine the coefficients of attenuation relationships of peak ground and spectral accelerations. This method has been applied to ۳۶۱ Iranian earthquake records with magnitudes between ۴.۵ and ۷.۴ obtained from two seismic zones, namely Zagros and Alborz-Central Iran. The obtained results indicated that the proposed method can be characterized as a powerful tool for prediction horizontal peak ground and spectral accelerations.

کلمات کلیدی:

Attenuation relationship; genetic algorithm; peak ground acceleration; spectral acceleration

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