

عنوان مقاله:

TMD effects on drift for earthquake oscillations of tall building including soil effects

محل انتشار:

دومین کنفرانس ملی مصالح و سازه های نوین در مهندسی عمران (سال: 1392)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

This paper investigates the effects of Tuned Mass Damper (TMDs) devices for earthquake oscillations of tall buildings including soil structure interaction (SSI) effects. The Newmark method is utilized to achieve the displacement, acceleration, and drift for a 40-story building for different soil types. In this study 18 earthquakes data are utilized for investigation of their effects on the model. The Ant Colony Optimization (ACO) method is employed for optimization, and the objective is to reduce the maximum drift of the building. This study leads the researchers to the better understanding and designing of TMDs for the mitigation of earthquake oscillations.

کلمات کلیدی:

Tall building, Tuned Mass Damper, Soil Structure Interaction, Ant Colony Optimization

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/333838>

