عنوان مقاله:

Optimum Design of Steel Moment Frame by using Particle Swarm Optimization Algorithm

محل انتشار:

چهارمین کنفرانس ملی پژوهشهای کاربردی در مهندسی عمران، معماری و مدیریت شهری (سال: 1395)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

Earthquake is one of the most destructive forces of nature, because economic damages of earthquake are included more area. Behavior of structures against earthquake depends on several factors that one of them is weight of buildings. Ifthe weight of structure is less, the forces arise of earthquake caused of reducing cost construction. In this study, themain purpose is to minimize the weight of steel moment frame, and Particle Swarm Optimization (PSO) algorithm hasbeen applied for optimization of it. Design variables are cross section of structural members that the .weight of structure has been minimized by finding appropriate values for them in optimization cycles

کلمات کلیدی:

Optimization, Steel Structure, Dynamic Analysis, PSO Algorithm