

عنوان مقاله:

optimization of scallop domes by genetic algorithm

محل انتشار:

کنفرانس زلزله، سازه و روشهای محاسباتی (سال: 1390)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

size optimization of scallop domes subjected to static loading is focused in the present paper as this type of space structures possesses a large number of the structural elements optimum design of such structures results in efficient structural configurations in this paper optimization task is achieved using a variant of genetic algorithm by taking into account linear and nonlinear responses of the structure. in the nonlinear optimization process both the geometrical and material nonlinearities are included. the numerical results demonstrate that nonlinear optimization provide more .efficient structures compared with the linear one

کلمات کلیدی:

optimization,scallop domes,particle swarm optimization , nonlinear behavior

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