

عنوان مقاله:

Study on Seismic behavior and behavior coefficient of double layered domes

محل انتشار:

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خلاصه مقاله:

Space structures due to its unique features is one of the most application in the construction industry, hence study of the seismic behavior and behavior coefficient of this structures is particular importance. In this study, seismic behavior of the Double layer ribbed canopy dome base using nonlinear static analysis (Pushover) in the 18 model has been studied. In these models with the changes of network height and dome height, changes of dome span and numbers of supports, the effect of each above parameters on ductility coefficient, over strength coefficient, the period of the structure and behavior coefficient of structure in both of vertical and horizontal direction is investigated. The results of the research show that by increasing the dome span, structure period and vertical behavior coefficient of structure increased and the horizontal behavior coefficient of structure reduced. By increasing the height of the dome, structure period and horizontal behavior coefficient of structure increased and the vertical behavior coefficient until ratio of .height to span equal 0.13 is reduces and more than this ratio is increases

کلمات کلیدی:

Space structures, Seismic behavior, behavior coefficient, double layered domes, pushover analysis

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