

عنوان مقاله:

Eigenfrequencies of Repetitive Structures Using Decomposition

محل انتشار:

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خلاصه مقاله:

This paper consists of two sections. In the first section an efficient method is used for decomposition of the canonical matrices associated with repetitive structures. For this purpose, cylindrical coordinate system, as well as a special numbering scheme is employed. In the second section the results of this method is compared with the results of the methods which MATLAB software used to compute eigenvalues. In order to illustrate the efficiency of the aforementioned methods, repetitive structures are considered in the form of barrel vault space structures.

کلمات کلیدی:

Space structures (barrel vaults), Factor analysis, Eigenvalues and Eigenfunctions, Vibration

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