



A semi-analytical formulation for estimating the fundamental vibration frequency of historical masonry towers

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Abstract

A semi-analytical formulation is proposed for estimating the fundamental vibration frequency of historical masonry towers. In this method, in addition to general tower geometrical properties such as its effective height, cross-sectional width, and wall thickness, the influence of openings in perimeter walls including opening size and configuration are explicitly considered. For this purpose, a comprehensive numerical study is carried out using the ABAQUS software to evaluate the effects of various geometrical and material parameters on the fundamental frequency of towers. Then, a semi-analytical formulation is developed through statistical analysis of the generated database. To evaluate the accuracy of the proposed formulation, a number of towers, for which dynamic test results or numerical results are available, are selected and their fundamental frequencies are determined employing the proposed method. The comparison of the frequencies obtained using the semi-analytical formulation with those reported in the literature shows that the proposed formulation evaluates the fundamental frequency of masonry towers with an acceptable accuracy.

Keywords Fundamental frequency · Historical tower · Masonry · Semi-analytical formulation

1 Introduction

Masonry towers can be found in different parts of the world. Bell towers of churches and minarets of mosques are some examples of this type of construction and are of historical value. As a result, damage assessment of towers affected by environmental conditions through time, seismic performance assessment, and repair and retrofitting of historical

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