

عنوان مقاله:

Investigating the effects of urban train movements and other environmental factors on the deterioration of historical and cultural buildings

محل انتشار:

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خلاصه مقاله:

With the increasing population and the need for intra-city rail transport, the occurrence of subway lines in densely populated cities from one perspective and another perspective the interaction of these lines on the surrounding environment is necessary. One of these effects is in cities that include historical and cultural buildings close to metro lines, such as Isfahan, Shiraz, which should be considered more. Therefore, in this article, by interpreting the necessity of studying the interaction of vibrations resulting from transportation and the impact of historical and cultural buildings, the importance of the issue has been revealed, and for this purpose, by reviewing the theory of vibrations, especially vibrations from rail transport, and introducing most of the predicted regulations and models, and expressing the permissible values of vibrations to adjacent structures based on the criteria of each rule, with leading constraints due to the interaction of transportation and historical and cultural buildings become familiar. Finally, the classification of cultural and historical structures will be done to achieve a comprehensive archive of the category of historical and cultural buildings in terms of structure and the interaction of these buildings in the impact of vibrations and their contribution to failure.

کلمات کلیدی:

Railway, Historical and cultural buildings, Damage, Rail traffic

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