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Whilst footfall induced vibrations on buildings and bridges is not normally significant in terms of structural integrity, footfall induced vibration can be a critical serviceability condition.

This publication presents a method of evaluating the vibration due to a single pedestrian walking on a flat surface, such as a floor slab or bridge deck.

A Design Guide for Footfall Induced Vibration of Structures

Whilst footfall-induced vibrations on buildings or bridges are normally ignored in terms of structural integrity, footfall vibration can be a critical serviceability condition. This publication guides the structural engineer through the process

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for designing for vibration, and includes flowcharts for calculation procedures and a useful glossary.

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Main A Design Guide for Footfall Induced Vibration of
Structures. A Design Guide for Footfall Induced Vibration of
Structures M.R. Willford, P. Young. Year: 2006. Publisher:
The Concrete Society (for The Concrete Centre) Language:
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Design Guide For Footfall Induced Vibration

The approaches, we introduce here are based on the works: [A Design Guide for Footfall Induced Vibration of Structures], [1] and "Design of Floors for Vibration: A New Approach", [2]. During the set up of the model it is important to take into account the fact that the structures are stiffer

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A Design Guide for Footfall Induced Vibration of Structures, by M R Willford and P Young, published for The Concrete Centre by The Concrete Society, presents a new method for evaluating the vibration due to a single pedestrian walking on a flat surface, such as a floor slab or bridge deck. The method was developed by Arup, and has been calibrated and refined with verification measurements taken on completed structures over a period of ten years.

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A spreadsheet for the assessment of footfall induced vibration of resonant floors was added to the website. The calculation follows the procedure presented in Concrete Centre's "Design Guide for ...

Assessment of footfall induced vibrations in floors

Two commonly used analysis methods to predict footfall vibration levels in steel buildings are the American Institute of Steel Construction (AISC) Design Guide 11, and The Steel Construction Institute (SCI) P354. The latter is more robust, as it can predict multi-modal time history responses at any

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