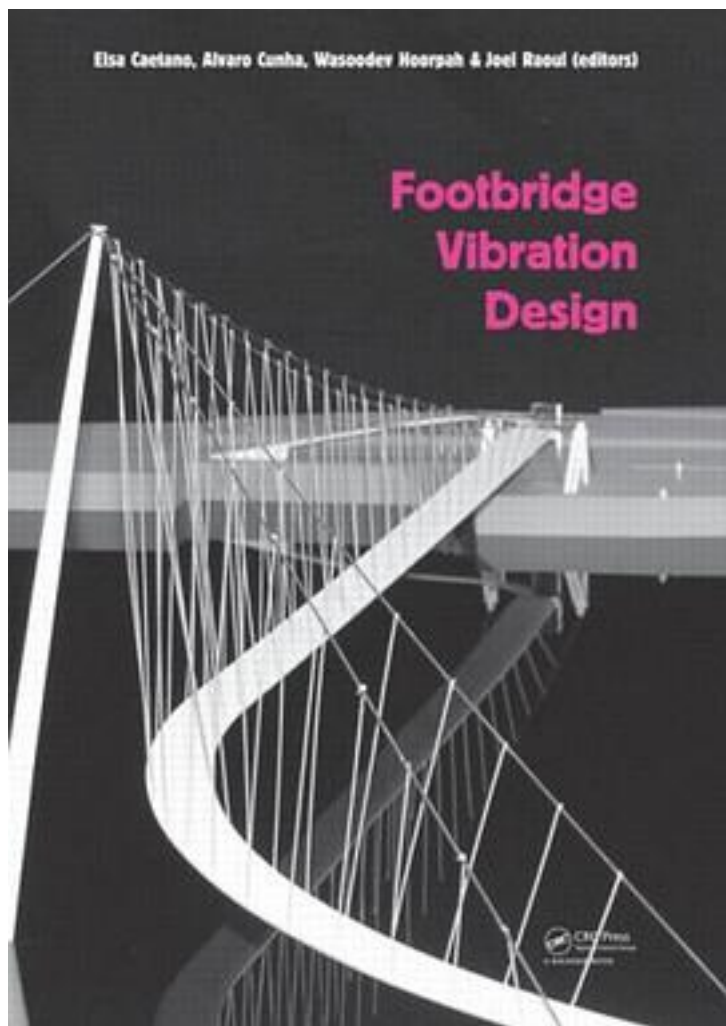


Footbridge Vibration Design



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Footbridge vibration has enjoyed increasing attention in recent years, following two episodes of large vibrations in two landmark footbridges, the Millennium bridge in London, and the Solferino bridge in Paris. The intensive research that has been done in human-induced vibrations in footbridges in the last decade is now getting more accredited by the establishment of design guidelines and recommendations. This collection of 11 invited contributions by eminent experts is the result of the workshop 'Footbridge Vibration Design: Worldwide Experience', held during the 3rd International Footbridge Conference, July 2008, in Porto, Portugal. This volume aims to transfer current knowledge of footbridge dynamic design in an applied, practical way. It presents new approaches and the most recent numerical, experimental tools for assessing and controlling pedestrian effects, thoroughly supported by practical cases. The book's focus is on: recommendations, guidelines, codes, design tools; practical experience - case studies. In the first part, guidelines and codes, as well as experimental and numerical tools to assist design, are presented. In the second part, practical experience is unveiled with particular focus on the design and control of footbridge vibrations. "Footbridge Vibration Design" is intended for Civil and Mechanical engineers involved with the design and research of footbridges.

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