

Vibration of Buildings to Wind and Earthquake Loads



Recent advances in the development of high strength materials, coupled with more advanced computational methods and design procedures, have led to a new generation of tall and slender buildings. These structures are very sensitive to the most common dynamic loads; wind and earthquakes. The primary requirement for a successful design is to provide safety while taking into account serviceability requirements. This book provides a well-balanced and broad coverage of the information needed for the design of structural systems for wind- and earthquake-resistant buildings. It covers topics such as the basic concepts in structural dynamics and structural systems, the assessment of wind and earthquake loads acting on the system, the evaluation of the system response to such dynamic loads and the design for extreme loading. The text is generously illustrated and supported by numerical examples and will be of great interest to practising engineers and researchers in structural, civil and design engineering and also to architects. The author has drawn on his experience as a teacher, researcher and consultant.

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