



Dynamics of Structures

Patrick Paultre

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This book covers structural dynamics from a theoretical and algorithmic approach. It covers systems with both single and multiple degrees-of-freedom. Numerous case studies are given to provide the reader with a deeper insight into the practicalities of the area, and the solutions to these case studies are given in terms of real-time and frequency in both geometric and modal spaces. Emphasis is also given to the subject of seismic loading.

The text is based on many lectures on the subject of structural dynamics given at numerous institutions and thus will be an accessible and practical aid to students of the subject.

Key features:

- Examines the effects of loads, impacts, and seismic forces on the materials used in the construction of buildings, bridges, tunnels, and more
- Structural dynamics is a critical aspect of the design of all engineered/designed structures and objects - allowing for accurate prediction of their ability to withstand service loading, and for knowledge of failure-causing or critical loads

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