

Structural Dynamics

Theory and Computation

This newly revised fourth edition includes all the latest developments and research work in structural dynamics, making it a truly self-contained book on the analysis and design of structures subjected to dynamic forces on earthquake excitations. It thoroughly and progressively covers every kind of structure, from basic structures modeled as single-degree-of-freedom idealizations to more complex dynamic systems and continuous systems with distributed mass and elasticity.

To facilitate clarity and improve understanding of the material, numerous illustrations and detailed examples are provided throughout the textbook and it meets the professional program COSMOS and educational program in structural dynamics developed by the author. Structural Dynamics, 4th edition features a multitude of revisions, including:

- an introduction to the dynamic analysis of structures using the Finite Element Method
- a new addition to the chapter on Random Vibration - the response of structures modeled as a multi-degree-of-freedom system, subjected to several random forces in a random motion in the base of the structure
- coverage of the concept of damping, including the evaluation of equivalent viscous damping
- new material on the constant acceleration method which determines the response of nonlinear dynamic systems
- a new addition to the chapter on Response Spectra - the development of seismic response spectra with consideration of local soil conditions at the site of the structure and interaction on the secondary effect resulting from the bearing displacements of the building commonly known as the P-effect

Bringing the gap between the mathematical formulation of a structural dynamic problem and the various numerical solution given by the computer, this comprehensive approach will be of value to advanced undergraduate and graduate structural engineering students as well as professional structural engineers.

About the author

Mario Paz is a Professor of Civil Engineering at the University of Louisville, Louisville, Kentucky. He is also the editor of International Handbook of Earthquake Engineering, Seismology and Dynamics, ITC.

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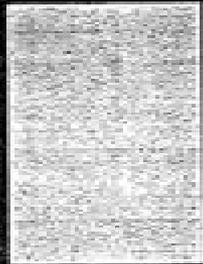
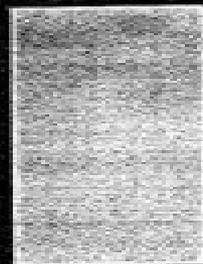


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