

Dynamics of Structures

By Ray W. Clough, Joseph Penzien

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Intended primarily for teaching dynamics of structures to advanced undergraduates and graduate students in civil engineering departments, this text may also be an effective reference for researchers and practicing engineers. It aims to present state-of-the-art methods for assessing the seismic performance of structure/foundation systems and includes information on earthquake engineering, taken from case examples. The second edition provides treatment of frequency domain analysis for both SDOF and MDOF systems and expanded treatment of damping. There is also expanded treatment of step-by-step methods for solving linear and non-linear equations of motion and methods for solving directly-coupled equations of motion with complex frequency domain analysis.

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