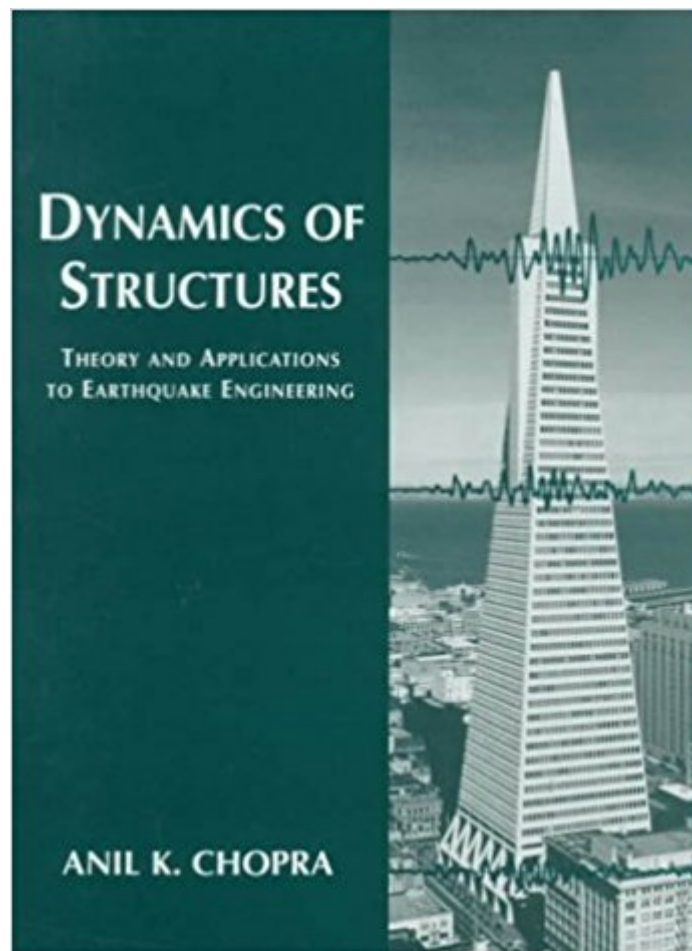




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Dynamics Of Structures: Theory And Applications To Earthquake Engineering



Synopsis

This book includes many topics in the theory of structural dynamics and applications of this theory to earthquake analysis, response, and design of structures. No prior knowledge of structural dynamics is assumed. The presentation is sufficiently detailed and integrated to make the book suitable for self-study by interested parties, as well as, professional engineers. FEATURES: * Relates the structural idealizations studied to the properties of real structures. * Presents the theory of dynamic response of structures in a manner that emphasizes physical insight into the analytical procedures. * Illustrates applications of the theory to solutions of problems motivated by practical applications. * Interprets the theoretical results to understand the response of structures to various dynamic excitations, with emphasis on earthquake excitation. * Applies structural dynamics theory to conduct parametric studies that bring out several fundamental issues in the earthquake response and design of multistory buildings. * Illustrates analytical procedures by over 100 worked out examples. * Includes over 400 figures that have been carefully designed and executed to be pedagogically effective. * Photographs of structures and their responses recorded during earthquakes are included to relate the presentation to the real world.

Book Information

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Customer Reviews

This structures text places emphasis on earthquake analysis and response and design of structures. It omits non- essential and advanced topics including variational formulation of the

equations of motion-Larange's equations, finite element method for continua, etc.

Excellent and comprehensible.

Excellent seller, I recommend it 100%. The book arrived very quickly (in 3 weeks to Mexico) in very good condition. thanks.

Book is well suited for individuals who want to gain some understanding of dynamics as applied to structural systems. However, needs more material on how structural dynamics can be applied to computer applications. Still one of the better books you can buy on this subject.

This book comprehensively covers structural dynamics and extends it to earthquake engineering applications (as claimed by the title). Very readable,easy to follow and has good example problems.

its a great text for an advanced -sr. year or above-class. as a geotechnical engineer, i found it very readable.

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