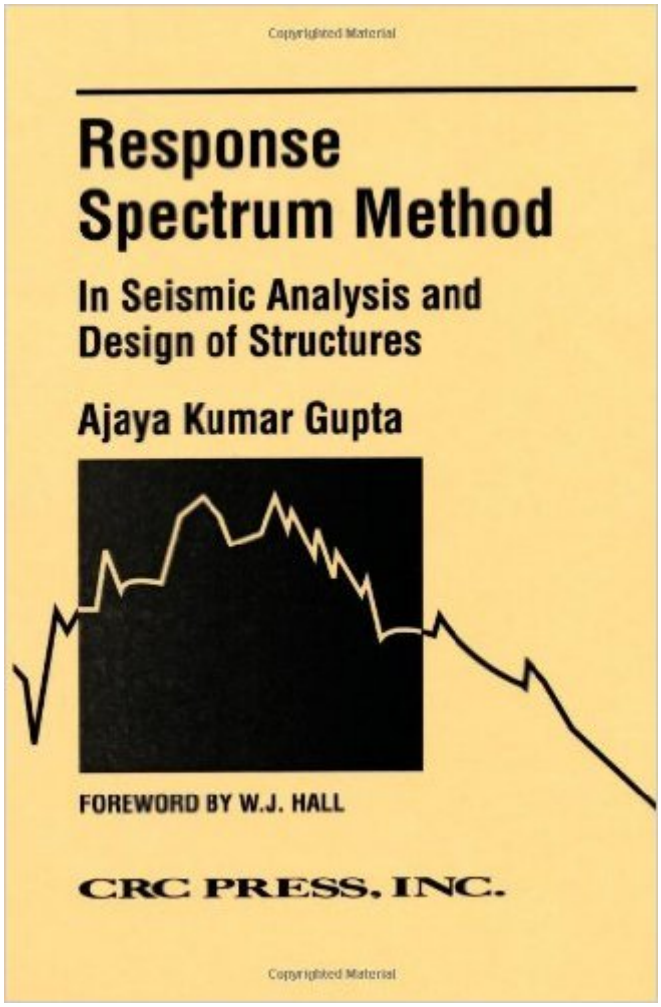
Response Spectrum Method In Seismic Analysis And Design Of Structures (New Directions In Civil Engineering)



Synopsis

New developments in the response spectrum method have led to calculations in seismic stresses that are more accurate, and usually lower, than those obtained by conventional methods. This new textbook examines the wealth of information on the response spectrum method generated by the latest research and presents the background theory in simplified form.Applications of these methods is essential in the seismic design of critical structures, such as nuclear power plants and petroleum facilities. In new construction, the reduced seismic stresses will result in efficient and economic design. For facilities already built, these more accurate methods can be used where the facility is being reassessed for higher loads and in the calculation of margins.Written by an acknowledged expert in this and related fields, this volume is ideal as a graduate text for courses in structural and earthquake engineering. It is also an excellent reference for civil, structural, mechanical, and earthquake engineers.

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