



# Seismic Design Using Structural Dynamics (SKGA Web Seminar DVD with PDF Handout)

*PhD S. K. Ghosh*

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This seminar starts by pointing out the methods by which a designer may comply with the seismic design requirements of the 2012 IBC and ASCE 7-10: Equivalent Lateral Force Procedure (ASCE 7-10 Section 12.8), Modal Response Spectrum Analysis (ASCE 7-10 Section 12.9), or Seismic Response History Procedures (ASCE 7-10 Chapter 16). The procedures in ASCE 7-10 Section 12.9 and Chapter 16 are more complicated than the Equivalent Lateral Force Procedure, but are required to be used under certain conditions of irregularity, occupancy, and height. Over the years, many questions have been asked about code provisions concerning these procedures and this seminar has been created to answer these questions and demystify the application of the code. Although ASCE 7-10 (the 2012 IBC) formally recognizes modal response spectrum analysis as well as seismic response history analyses, the modal response spectrum analysis is still more common in design office usage and is the primary subject of this seminar. The background and details are explained in Part I of this seminar where a step-by-step analysis procedure is introduced, and a three-story, one-bay frame example is begun to be solved entirely manually to illustrate application of the procedure. The manual solution of the three-story, one-bay frame example is completed in Part II of this seminar, the remainder of which is devoted exclusively to the detailed design of a 20-story reinforced concrete shear wall-frame building. Modal response spectrum analysis is used as the basis of design. Design utilizing the Equivalent Lateral Force Procedure is also illustrated because it is basically a prerequisite to design using the Modal Response Spectrum Analysis Procedure.

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