

**Civil Engineering PE Seismic Review Workshop**  
**Spring 2010**

Dates: February 18, 2010 to March 25, 2010  
Location: TBA  
Instructors: Nazaret Dermendjian

**Course Topics:**

- Session I (February 18, 2010)
  - Introduction
  - General Test Taking Techniques
  - General Seismology
  - Review of Vibration Theory
  
- Session II (February 25, 2010)
  - Review of Vibration Theory
  - Response of Structures
  
- Session III (March 4, 2010)
  - Response of Structures
  - IBC Seismic Code
  
- Session IV (March 11, 2010)
  - CBC 2007/IBC 2006 Seismic Code
  
- Session V (March 18, 2010)
  - Wall Rigidity
  - Diaphragm Theory
  - Center of Mass vs. Center of Rigidity
  
- Session VI (March 25, 2010)
  - Design of Concrete Structures
  - Design of Steel Structures
  - Design of Wood Structures

**Text:**

- Seismic Design of Building Structures. Ninth Edition  
Michael R. Lindeburg, P.E. with Kurt M. McMullin, P.E.  
Professional Publications, Inc.

## **References:**

- Seismic Design Review  
Steven T. Hiner, M.S., S.E.
- Dynamics of Structures,  
Theory and Applications to Earthquake Engineering  
Second Edition  
Anil K. Chopra  
Prentice Hall
- Structural Dynamics, Theory and Computation, 4<sup>th</sup> Edition  
Mario Paz  
KAP, 1997
- Design of Wood Structures, 6<sup>th</sup> Edition  
Breyer et al  
McGraw Hill