

A Craftsman's Approach to Seismic Design

Seismic Design Concerns for the Design Professional



Table of Contents

1. Climate as Context:

- Climatic region of Pasadena, California

2. Program:

- Greene & Greene design philosophy

3. Building Groups

- Shape & orientation: *Evaluation of building for solar and ventilation access*
- Orientation & Location: *evaluation of building in response to environmental & topographical information*
- Edges: *The use of natural features or designed features to enhance climate control*
- Compact organizations: *The use of shade to protect form heat gain*

4. Buildings

- Room Orientation: *Location of service and served spaces in relation to the environment.*
- Zoned Organization: *Finding a pattern that corresponds to the environment.*

5. Building Parts

- Walls: *Materials*
- Floors: *Materials*
- Windows: *Size location and orientation*

6. Learning From Earthquakes

- Architectural and Engineering Structural and Construction Issues
- Urban Planning Seismic Zones Siteing and Location Issues

7. Seismic Design Issues for the Design Professional

A Craftsman's Approach to Seismic Design

Seismic Design Concerns for the Design Professional

What we can learn from this research

- We can integrate technology and architectural elements to create a aesthetically pleasing solutions.
- The holistic approach used by Greene and Greene proves a valuable lesson in intuitive seismic consideration.
- Architecture and Planning to be effective must consider the ramifications of a seismic event.
- The design professional must utilize all available resources and collaborate with others to provide for the health and safety of society in the built world.

