Design Strength Factors that Account for Basin Effects during Subduction Zone Earthquakes

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INTRODUCTION





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larger spectral accelerations, (2) longer durations, and (3) more damaging spectral shapes. capacities than motions recorded outside the basin. the effect of basins and reduces the risk to structural collapse.

- Simulating M9 earthquakes from the Cascadia Subduction Zone. - Comparing physics-based ground-motion simulations with earthquake recordings from similar tectonic environments and basins with similar properties.





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Evaluate Basin & Duration



