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Seismic Analysis And Design For Soil-Pile-Structure Interactions: Proceedings Of A Session Sponsored By The Committee On Geotechnical Earthquake ... Of Civil (Geotechnical Special Publication)



Synopsis

Pile foundations are used extensively to support structures in seismic regions around the world. For years, geotechnical engineers have neglected to consider the interaction soil-pile systems have with superstructures; while civil engineers have ignored the interaction of the foundation with the structure. In order to understand a structure's response to dynamic loads, the complete soil-pile-structure interaction must be analyzed. Thus, centrifuge models, shake table models, and analytical methods are used to explore the interactions among soil, piles, and structures.

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