


Simulation & Assessment of Large Ground Deformation Effects



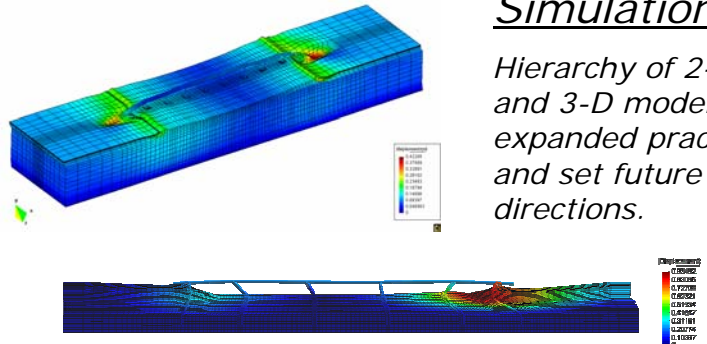
Liquefaction & lateral spreading are a major cause of foundation damage during earthquakes.

Accomplishments ...




Field studies

Detailed case studies that changed design practices for liquefaction susceptibility & lateral spreading assessments.



Simulation

Hierarchy of 2-D and 3-D models expanded practice and set future directions.

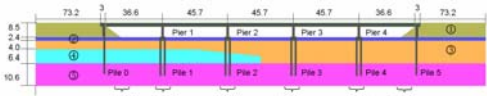
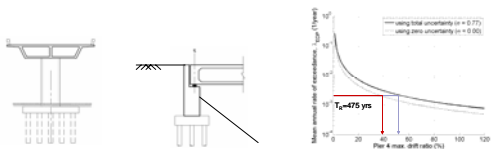


Validation

Dynamic centrifuge, shake table, and field tests filled knowledge gaps and enabled validation of analysis methods.

Design

Benchmarking studies demonstrate PBEE and facilitate early adoption in practice.

Partnerships

National & international collaborations advance the science and practice.



