

Dynamic Soil Structure Interaction Geotechnical Engineering

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In addition to the main station ground-motion instrumentation, a one-story soil-foundation-structure-interaction structure has been constructed at the site for the study of dynamic response of this structure during earthquakes, and some 3km to the west of the main site at the edge of the valley (at the Lake Hemet dam) another small group of sensors (GVAR) record motions of the exposed bedrock ...

Journal of Geotechnical and Geoenvironmental Engineering ...

Seismic Interaction of Adjacent Structures on Liquefiable Soils: Insight from Centrifuge and Numerical Modeling Yu-Wei Hwang , Jenny Ramirez , Shideh Dashti , Peter Kirkwood , Abbie Liel , Guido Camata and Massimo Petracca

Gabion - Wikipedia

A gabion (from Italian gabbione meaning "big cage"; from Italian gabbia and Latin cavea meaning "cage") is a cage, cylinder or box filled with rocks, concrete, or sometimes sand and soil for use in civil engineering, road building, military applications and landscaping.. For erosion control, caged riprap is used. For dams or in foundation construction, cylindrical metal structures are used.

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Soil structure - Wikipedia

Soil structure describes the arrangement or the way of soil in the solid parts of the soil and of the pore space located between them. It is determined by how individual soil granules clump, bind together, and aggregate, resulting in the arrangement of soil pores between them. Soil has a major influence on water and air movement, biological activity, root growth and seedling emergence.

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