

結構工程通用程式/軟體

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免費贈用-- 執業土木、結構技師業界

Capabilities: inelastic modeling and analysis to the requirements of ATC-40, CALTRANS, or Taiwan seismic code.

- Pushover: MKREC; MKCIR; MKHOLW; PUSHO.
Reinforced concrete column's M- ϕ and P- Δ curves for rectangular, circular, or hollow sections.
- Capacity spectrum: ATC-INTER, TAI-INTER, SPEC-GEN.
Demand spectrum for California, Taiwan, or site-specific ground motions, then intersected with capacity spectrum for performance point.
- SDOF inelastic dynamic: DOF6-PL; DOF6-BK.
Incremental nonlinear time stepping solutions for elastic-plastic, or elastic-fracture responses of single-degree model.

徵求開發-- 產學合作

- 2D MDOF Finite element inelastic dynamic: DISMA9.
Nonlinear time history solutions for general purposes: e.g. seismic racking analysis of subway structures in soft ground; failure study of bridge considering deck pounding during earthquake; impact load resistance for pipes embedded in soil.
- MDOF inelastic dynamic: SHAKE6; SHEAR6.
Incremental nonlinear time stepping solutions for elastic-plastic responses of multi-layered soil strata, or multi-story shear frame.

程式 **DISMA9** 應用案例如附圖

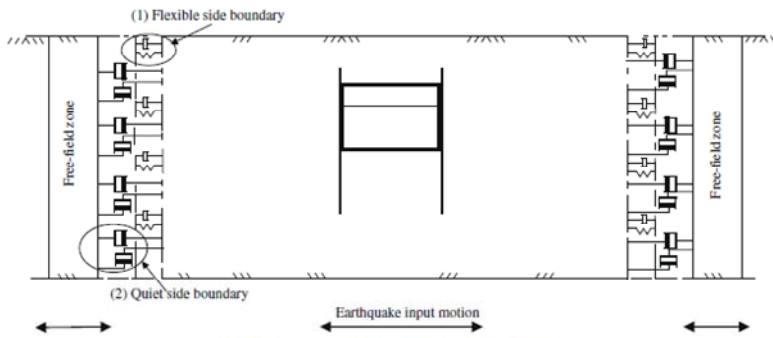
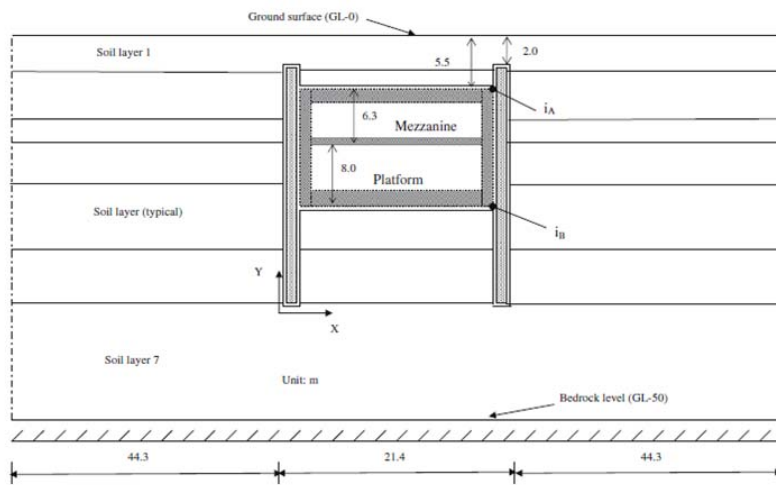
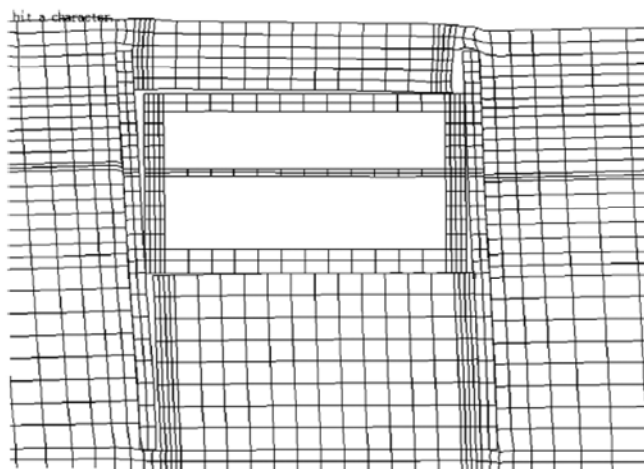
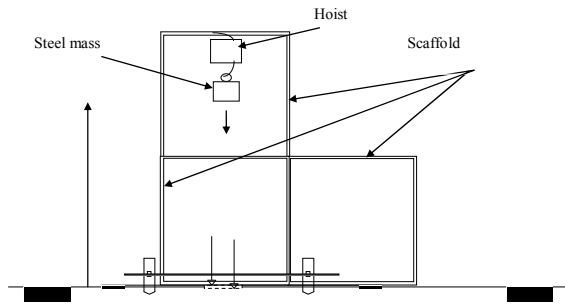


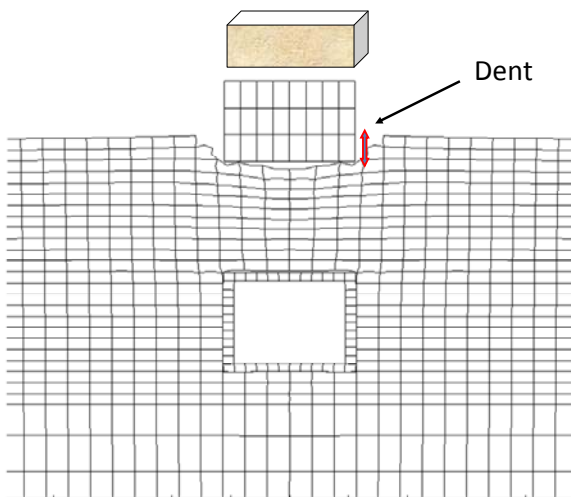
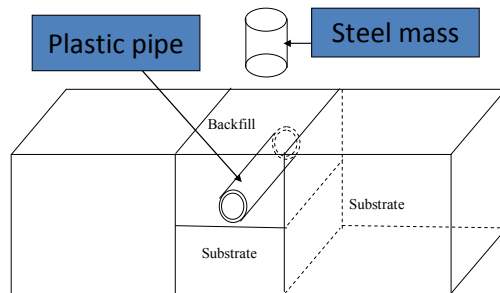
Fig. 4. Two options for side boundaries of a soil half-space.





Model parameters-- calibrated with field test data

Mass-soil-pipe dynamic interactions



2D model; soil dent