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Nota di contenuto

Barodesy: the next generation of hypo plastic constitutive models for soils -- Constitutive models in finite element codes -- Discretization of integro-differential equations and applications in nonlinear elastodynamics -- Seismic performance of tuned mass dampers with uncertain parameters -- Sensitivity and reliability analysis of engineering structures by sampling based methods -- Multi-phase models in structural engineering -- Multiscale modeling of material systems -- Scientific computing in urban water management -- Computational fluid dynamics in hydraulic engineering -- A genetic algorithm approach for the rigorous registration of arbitrary laser scanned point clouds.

Sommario/riassunto

The book presents state-of-the-art works in computational engineering. Focus is on mathematical modeling, numerical simulation, experimental validation and visualization in engineering sciences. In particular, the following topics are presented: constitutive models and their implementation into finite element codes, numerical models in nonlinear elasto-dynamics including seismic excitations, multiphase models in structural engineering and multiscale models of materials systems, sensitivity and reliability analysis of engineering structures, the application of scientific computing in urban water management and hydraulic engineering, and the application of genetic algorithms for the registration of laser scanner point clouds.