

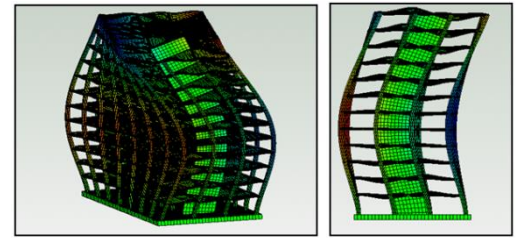
-CivilFEM makes the difference-

Multidisciplinary Advanced Non-linear FEM Analysis Software

Seismic Analysis

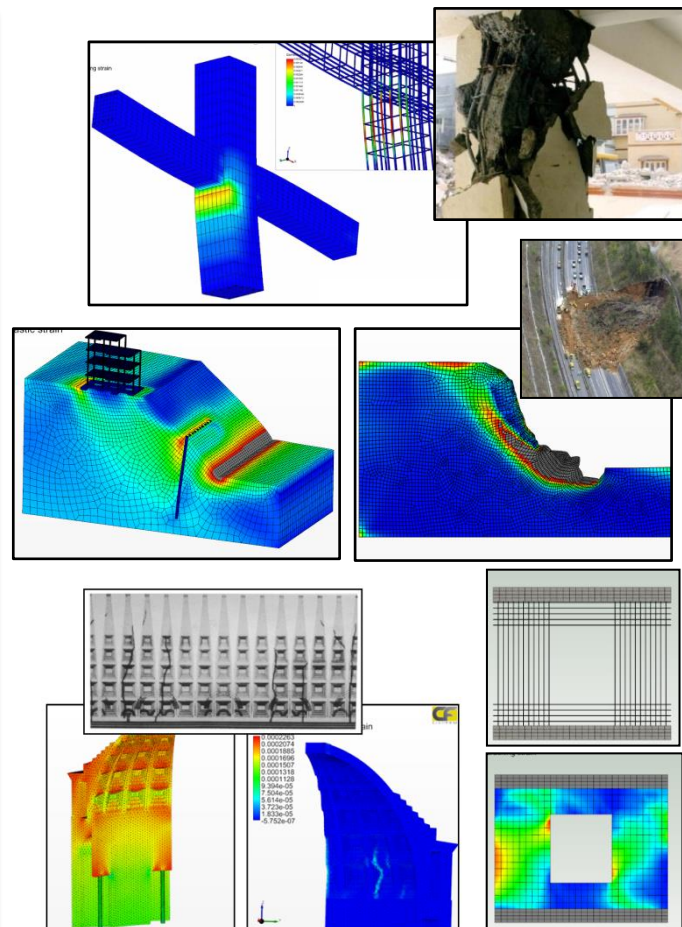
“CivilFEM® works in the same way as you build”

Analyze the entire construction process in a single model: CivilFEM facilitates the virtual simulation of all the non-linear construction processes in a straightforward sequential way by means of its tools, time-dependent properties and activation and deactivation of materials.



SEISMIC ANALYSIS CAPABILITIES HIGHLIGHTS

- Transient and non-linear evolutive construction process (total and partial collapse of structures)
- Time dependent material properties
- Soil-structure interaction analysis
- Non-linear Soil behavior laws: Drucker-Prager, Mohr-Coulomb (cohesion and variable angle of friction) and Cam-Clay (Initial tensile stress)
- Non-linear multibody advanced contacts
- Seismic and earthquake engineering (response spectrum or nonlinear time history)
- Hydrodynamic masses (modal, spectral & transient)
- Heat transfer & thermo-structural analysis
- Full non-linear transient analysis
- Cracking (concrete, timber...)
- Non-linear spring and dampers
- Non-linear buckling
- Slope stability & seepage analysis
- Parametrization & programming with Python
- Followers forces. Large deflection



CivilFEM® powered by Marc® is a very powerful and versatile program suitable for all the types of advanced analyses performed in all construction sectors, providing a rich set of tools that streamline the creation of analysis models for Construction, Dams, Civil engineering, Tunnels, Geotechnics, Mining, Energy, Oil & Gas, Precast, etc.

With its intuitive user friendly interface and pre/post features, it is very easy to learn. The powerful (included) Marc® from MSC® Software non-linear solver aids to solve the most demanding and complex advanced analyses. ®Trademark property of their respective owners