

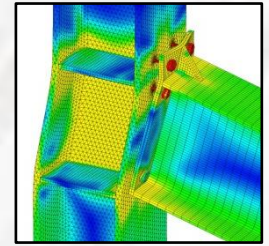
-CivilFEM makes the difference-
 Multidisciplinary Advanced Non-linear FEM Analysis Software

FORENSIC STRUCTURAL ANALYSIS

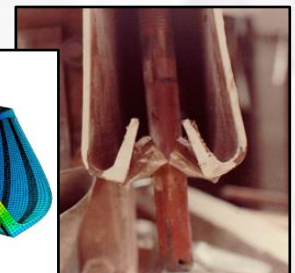
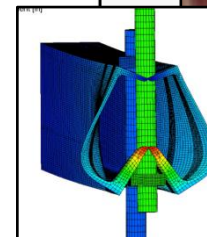
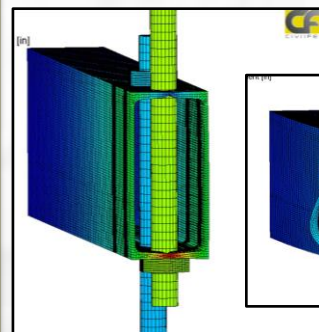
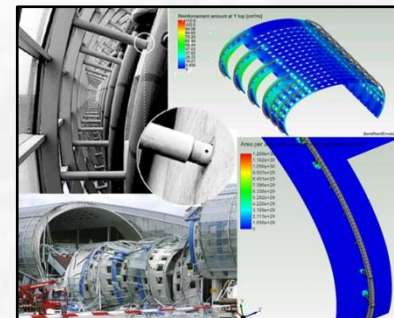
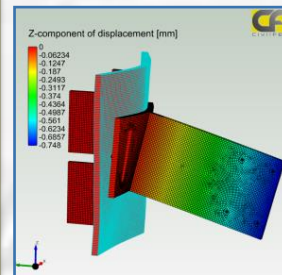
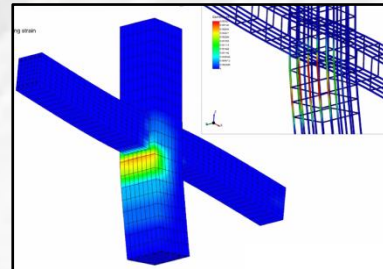
“CivilFEM® works in the same way as you build”:

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.



- FORENSIC ANALYSIS CAPABILITIES HIGHLIGHTS:**
- Transient and nonlinear evolutive construction process (total and partial collapse of structures)
 - Time dependent material properties
 - Soil-structure interaction analysis
 - Soil behavior law models: Drucker-Prager, Mohr-Coulomb (cohesion and variable angle of friction) and Cam-Clay (Initial tensile stress)
 - Nonlinear Multibody Advanced Contacts
 - Seepage (transient & steady analysis)
 - Seismic and earthquake engineering (response spectrum or nonlinear time history)
 - Orthotropic material properties
 - Hardening laws (kinematic, isotropic and combined)
 - Heat transfer (steady and transient analysis)
 - Thermo-Structural analysis
 - Concrete Creep and Shrinkage
 - Cracking (concrete, timber...)
 - Prestressed reinforced concrete (beams, shell and solids)



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