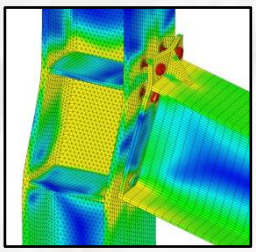
CivilFEM

-CivilFEM makes the difference-

Multidisciplinary Advanced Non-linear FEM Analysis Software

FORENSIC STRUCTURAL ANALYSIS

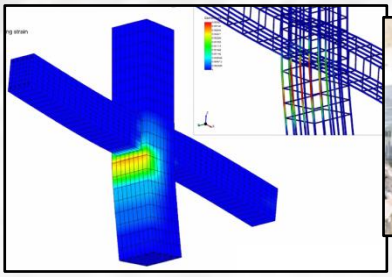


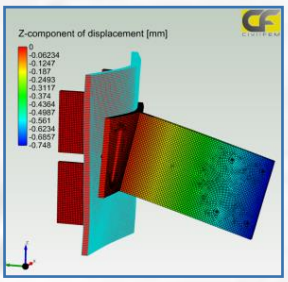
"CivilFEM® works in the same way as you build":

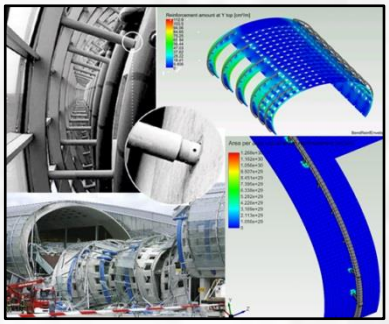
Analyze the entire construction process in a single model:
CivilFEM facilitates the virtual simulation of all the non-linear construction processes in a straightforward sequential way by means of its tools, time-dependent properties and activation and deactivation of materials.

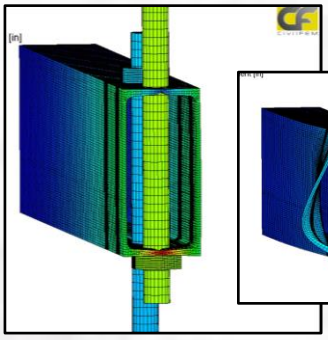
FORENSIC ANALYSIS CAPABILITIES HIGHLIGHTS:

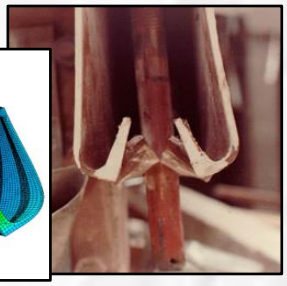
- Transient and nonlinear evolutive construction process (total and partial collapse of structures)
- Time dependent material properties
- Soil-structure interaction analysis
- Soil behavior law models: Drucker-Prager, Mohr-Coulomb y Cam-Clay (cohesion and variable angle of friction)
- Nonlinear Multibody 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

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