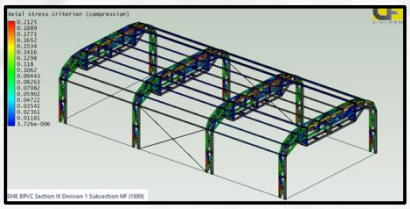
-CivilFEM makes the difference-

Multidisciplinary Advanced Non-linear FEM Analysis Software

Steel Structural Analysis

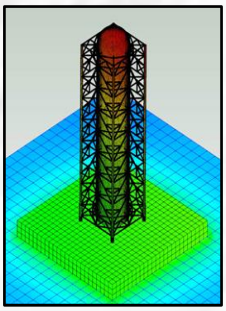


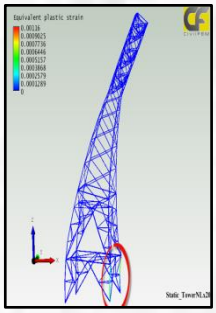
"CivilFEM® works in the same way as you build"

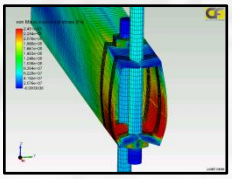
Analyze the entire construction process in a single model:
CivilFEM facilitates the virtual simulation of all the non-linear construction processes in a straightforward sequential way by means of its tools, time-dependent properties and activation and deactivation of materials.

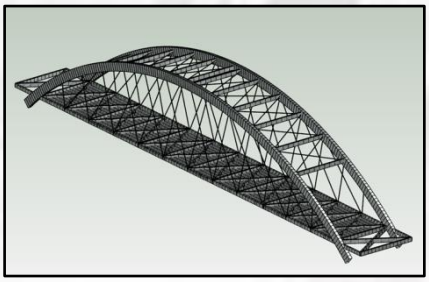
STEEL STRUCTURAL ANALYSIS HIGHLIGHTS

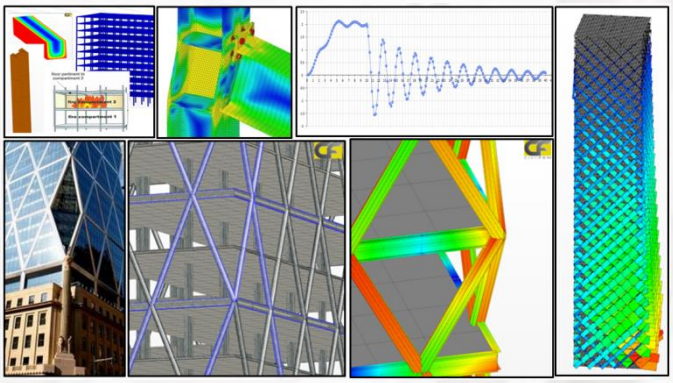
- Check & design by the most important Codes and Standards (EC3, AASHTO, AISC, British standard, China standard (GB50017), ASME, Indian standard…)
- Non-linear static & transient evolutive construction process
- Soil-structure interaction analysis
- Non-linear multibody advanced contacts: breaking, glue, cohesion, friction
- Seismic and earthquake engineering (response spectrum or non-linear time history)
- Harmonic, modal and response spectral analysis
- Orthotropic material properties
- Hardening laws (kinematic, isotropic and combined) and large displacements
- Non-linear material models, springs, dumpers, trusses and cables
- Heat transfer (steady and transient analysis)
- Thermo-structural analysis. Thermal dependent material properties
- Linear bucking (Eigenvalues), non-linear buckling and post bucking analysis (Arch Length). Total and partial collapse of structures











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, Forensic structural analysis, 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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