CivilFEM

INNOVATING AT ALL LEVELS

THE PERFECT TOOL TO CONDUCT YOUR PROJECT

PROJECTS

Seismic analysis and advanced design of Industrial buildings, high rise buildings and sport stadiums, Nuclear, Wind and Thermal power plants., off-shore and marine structures, Bridges, (concrete, steel, cable, etc…),tunnels, foundations, piles, and much more…

CAPABILITIES

User friendly and easy to learn environment to perform advanced simulations quickly and accurately project and design. Checking and design according to codes. Parametric macros and scripts with Python, Multilanguage.

BENEFITS

Increasing quality and stability of project and design solutions. Save time in the construction process by shifting. Improve cost/performance factors by optimizing the structural material and considering nonlinear world behavior.

FOR PROFESSIONALS

Only professionals like you know how many hours of calculation, research and reviewing are necessary to erect a bridge or build a dam. This is why your jobs require more than just a software for design and calculation of structures. What Ingeciber offers you, is a quality synergy for all the Civil Engineering projects that you come across.

UNIQUE SOLUTION

CivilFEM ® with the powerful nonlinear solver Marc® inside means an unique solution targeted to the Civil Engineering and NPP worldwide market, allowing to seamlessly go from simple analysis level to complete nonlinear construction phases simulation level. Only one software for all your civil engineering needs.

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CHECK OUT ALL CIVILFEM CAPABILITIES

CivilFEM® INTRO

Cad Geometry Import /Export | Cross-section and Material Library
Multi-language interface | Escalar and Vectorial Parametric modelling
Path History Results | Macros with Python | Static, Modal, Spectrum
Harmonic, Linear and Non-linear transient analysis | Linear buckling
Advanced Contacts with friction | Springs, cables and tendons
Large deflections and strains | International Codes

CivilFEM® ADVANCED

Time evolutive construction analysis | Concrete creep and shrinkage | Nonlinear buckling | Post/pre-stressed tendon definition, tensional losses, deviatory forces
Slope stability | tunnel Tools | Nonlinear reinforced concrete | User crack data
Automatic foundation stiffness | Soil mechanics, retaining walls wizard
Piles and micropiles wizard
Includes CivilFEM® Intro Capabilities

CivilFEM® EXPERT

Crack propagation analysis
Transformation from solid model to Shell model
Laminated material (composites, mixed structures, etc...)
Thermal Transfer: Steady analysis/Transient analysis.
Seepage analysis: Steady analysis/Transient analysis
Includes CivilFEM® Advanced Capabilities.

CivilFEM® NPP

Checking & Design according to NPP Codes: AISC ASD, AISC LRFD, ASME BPVC Sect.III Div.1 SubSect NF, ANSI/AISC N690. LRFD Provisions, ANSI/AISC N690 ASD provisions, ACI 349, ACI 359, ITER Structural. Design Code for Buildings, ETC-Code.
Add on to any CivilFEM®.

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