

Version 6 of the **Structural Engineering Library** is now available. This version is the largest ground-up rewrite we have ever performed.

The **Structural Engineering Library** provides you with pre-written structural calculation modules and allows you to build a set of calculations that include Excel spreadsheets, WORD documents, Scanned images and PDF files.

The initial purchase provides Maintenance & Support Plan activation (MSP) for 12 months giving you all updates, new additions, and technical support. Thereafter a yearly fee continues your ability to enjoy all future upgrades and technical support.

- ✓ Completely rewritten in 2005-2008 and now conforming to ASCE 7-05, ACI 318-05, ACI 530-05, 2005 NDS, 13th Edition AISC, 2006 INC and 2007 CBC.
- ✓ Design in Steel, Concrete, Masonry & Wood
- ✓ Beams: Design single and multi span beams. Flexible support fixity and almost unlimited loading. Easy graphics beam builder, extensive lateral support options, automatic live load "skip loading", minor axis bending. Rolled steel sections with composite option, multi-span concrete beams with several cross sections, concrete beam on elastic foundation, wood & steel beam "Quik List" for fast selection, highly detailed analysis results with concise summary, flexible diagraming.
- ✓ Columns : All rolled steel sections plus user created section database, multi-story capability with flexible brace point specification. Biaxial bending for steel, concrete & wood. Steel, Masonry & Concrete capacities calculated using interaction diagrams. Varying end fixities, slenderness specification for each axis, and flexible vertical and lateral load application. New concrete general shape biaxial cross section solvers.
- ✓ Foundations : Design of general footing with axial, moment & shear loads, specify capacity increases, rebar band requirements, column pedestals, highly detailed analysis including uplift & sliding. General, combined and wall footings.
- ✓ Walls : Concrete and masonry slender walls with one or two stories. Flexible vertical and lateral load application and highly detailed deflection calculations by modeling wall with FEM tools, temperature effects, base fixity option, reinforcing at center or each face, concrete wall "reveals".
- ✓ Concrete, masonry & wood shear walls. Multi-story walls, walls with user defined openings and concrete walls with special boundary elements. Also includes footing design.
- ✓ Cantilever retaining wall design in concrete or masonry. Variable toe & heel dimensions, multi-stem construction, flexible loadings including surcharges and adjacent loads.
- ✓ Frames : 2-D Frames with completely flexible modeling options, "Frame Wizard" provides automatic frame creation, steel and wood databases (design coming soon), flexible load combinations, high limits, temperature loads, spring supports, etc. This is a simple program to handle most of your 2-D frame needs.
- ✓ Other general functions : Steel base plate, General section properties, Torsional analysis of rigid diaphragms, ASCE Seismic & Wind forces, Live Load reductions, base plates, rebar embedment, point loads on slabs, bolt groups and an ever growing list as the months go by.
- ✓ Project calculation manager enables to create "project files" which include ENERCALC calculations, Excel spreadsheets, Word documents, PDF files and Scanned images. It also provides single-set calculation printing, import of standard calculation templates, and full Division/Module organization.
- ✓ Includes steel a section, wood section, timber material, steel grade, and seismic acceleration databases.
- ✓ Project Load Combination manager integrated with all calculation modules.
- ✓ Extensive sketches, stress diagrams and column interaction diagrams.
- ✓ Automatic member selection for steel and timber. Automatic design iteration for concrete.
- ✓ "What If" spreadsheet instant recalculation design (which has been an ENERCALC design since 1983!)
- ✓ Well designed and highly readable printed calculation reports that incorporate your own title block and logo.
- ✓ Flexible Internet based activation for portability to any computer plus network licensing.
- ✓ Automatic web updating system always keeps your software current as an MSP subscriber.
- ✓ 25 year ENERCALC company history with thousands of users nationwide.