

## Engineering Software new: web links in this PDF are live

Company	Products Offered	Product Descriptions
<b>Acronym Software</b> <a href="http://www.acronym.ca/soda-home.html">http://www.acronym.ca/soda-home.html</a> 519.885.2454	<b>SODA 4</b>	Structural Optimization Design & Analysis (SODA) software for the analysis and design of steel frameworks subject to the AISC standard. Latest release has new toolbars and a faster analysis engine to enhance productivity.
	<b>SODA View 2</b>	Software used for viewing, editing, and printing SODA output report files. New options include font selection and search capability.
	<b>Database Editor 1</b>	Software for editing SODA databases. Manages modification of AISC and CISC section databases used by SODA.
<b>ALGOR, Inc.</b> <a href="http://www.algor.com">http://www.algor.com</a> 412.967.2700	<b>ALGOR</b>	Includes design, analysis, and simulation tools that allow engineers to virtually test and predict real-world behavior of new and existing product designs.
<b>AnyDWG Software, Inc.</b> <a href="http://www.anydwg.com">http://www.anydwg.com</a> 877.353.7297	<b>Any DWG DXF Converter</b>	A batch DWG and DXF bi-directional converter that allows users to convert DWG to DXF, and DXF to DWG without AutoCAD.
	<b>Any DWG to PDF Converter</b>	A batch converter that allows users to convert DWG and DXF files to PDF without AutoCAD.
	<b>Any DWG to Image Converter</b>	Allows users to batch convert DWG and DXF files to TIF/TIFF, JPG/JPEG, BMP, GIF, PNG, TGA, PCX, WMF, and EMF without AutoCAD.
	<b>Any DWG to DWF Converter</b>	With Any DWG to DWF Converter, users can batch convert DWG and DXF files to DWF without AutoCAD.
<b>ATIR Engineering Software</b> <a href="http://www.ATIR.com">http://www.ATIR.com</a> 847.677.1945	<b>STRAP Version 11.5</b>	A 3D static and dynamic, frame, and finite element analysis and design system. Pre- and post-analysis options quicken and simplify data input and results interpretation.
	<b>STRAP BRIDGE</b>	A module of STRAP intended for bridge engineers who design bridge structures of all shapes for moving loads. Creates 3D influence lines for any point and calculates the critical effect of vehicle loads.
	<b>BEAMD</b>	A program for reinforced concrete beam design, detailing, and scheduling. BEAMD is integrated with STRAP or can operate as a stand alone program.
<b>Bestech Systems LLC</b> <a href="http://www.LRFDsoftware.com">http://www.LRFDsoftware.com</a> 800.347.4171	<b>SAM</b>	Integrated bridge design software. Users can analyze using line girders, grillages, finite elements, space frames, and 3D live load optimization. Design steel and concrete girders and sections to AASHTO specifications.
<b>Cascade Consulting Assoc.</b> <a href="http://www.strucalc.com">http://www.strucalc.com</a> 800.279.1353	<b>StruCalc 6.0</b>	Designs beams, columns, joists, rafters, and footings using solid sawn lumber, GLB's, steel, tube steel, flitch beams, and structural composite lumber from five manufacturers. Includes the new 2003 IBC.
	<b>REAL3D-Analysis</b>	A 2D/3D frame and finite element analysis program. Features unique 128-bit floating point solver, multiple document interface, and impressive graphics based on OpenGL.
	<b>ETABS</b>	Building analysis and design software built around a physical object-based GUI, powered by targeted algorithms for analysis and design, with interfaces for drafting and manufacturing. The integrated model includes moment-resisting frames, braced frames, staggered-truss systems, RBS frames or side plates, and rigid and flexible floors.
<b>Computations &amp; Graphics, Inc.</b> <a href="http://www.cg-inc.com">http://www.cg-inc.com</a> 303.668.1091	<b>REAL3D-Analysis</b>	A 2D/3D frame and finite element analysis program. Features unique 128-bit floating point solver, multiple document interface, and impressive graphics based on OpenGL.
<b>Computers &amp; Structures, Inc.</b> <a href="http://www.csiberkeley.com">http://www.csiberkeley.com</a> 510.845.2177	<b>ETABS</b>	Building analysis and design software built around a physical object-based GUI, powered by targeted algorithms for analysis and design, with interfaces for drafting and manufacturing. The integrated model includes moment-resisting frames, braced frames, staggered-truss systems, RBS frames or side plates, and rigid and flexible floors.
<b>Daystar Software, Inc.</b> <a href="http://www.daystarsoftware.com">http://www.daystarsoftware.com</a> 816.741.4310	<b>Multiframe</b>	Fully graphical structural engineering design and analysis software for 2D and 3D modeling. Featuring interactive graphics, it provides ease of use combined with static or dynamic analysis capabilities.
	<b>Daystar Masonry</b>	Calculates a complete analysis and design of concrete masonry walls based on the UBC, BOCA, SBCCI, or ACI building codes.
	<b>Daystar Footing-Master</b>	Calculates a complete analysis and design of concrete wall footings with wall offsets, and rectangular spread footings with column offsets, by implementing user's choice of UBC, BOCA, SBCCI, or ACI building codes.
	<b>Daystar RetainWall</b>	Calculates a complete analysis and design of concrete and masonry cantilevered retaining walls based on the IBC, UBC, BOCA, SBCCI, or ACI building codes.
<b>Devco Software, Inc.</b> <a href="http://www.devcosoftware.com">http://www.devcosoftware.com</a> 541.426.5713	<b>LGBEAMER v6 Pro</b>	Designs cold-formed steel cee's, channels, and zee's. Uniform, sloped, partial-span, concentrated, and axial loads. Single, boxed, back-to-back, and built-up members. Shearwalls, X-braces, and Integrated framed opening modules.
<b>Digital Canal</b> <a href="http://www.digitalcanal.com/structural.shtml">http://www.digitalcanal.com/structural.shtml</a> 800.449.5033	<b>VersaFrame</b>	A completely new analysis and design program that does not require AutoCAD. Easy to use and features shell elements, spreadsheet and graphical input, integrated steel design, and more.
	<b>Frame Analysis &amp; Design for AutoCAD</b>	Software completely integrated into AutoCAD. Features include advanced elements (non-prismatic, cable, tension only, contact elements, and elastic-plastic bars), steel and spread footing design, and more.
	<b>Steel Design Utility</b>	Allows the user to design or check steel members using ASD and LRFD. Recommended for small jobs that don't require a full-fledged frame analysis.
	<b>StrucPro Detailer for AutoCAD</b>	An economical structural detailing solution for AutoCAD. Automatically draws common structural items such as beams, columns, stairs, footings, walls, and more from the dimensions entered by the user.
<b>Dlupal Engineering Software</b> <a href="http://www.dlupal.com">http://www.dlupal.com</a> 49.9673.9203.23	<b>RFEM</b>	A 3D finite element program for structural engineers. A graphic user interface allows visual modeling of complex structures. Includes beams, plates, and shells, as well as libraries of materials and international selections.
	<b>RSTAB</b>	Software made for frameworks. Design modules are available for steel, timber, and concrete. New are steel connection modules. RSTAB links to ProSteel3D, XSTEEL, and other CAD software.

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CD-ROM	<b>ENERCALC, Inc.</b> <a href="http://www.enercalc.com">http://www.enercalc.com</a> 800.424.2252	<b>Structural Engineering Library</b>	A single program that integrates 45 calculation modules into a single comprehensive engineer's desktop tool. A fill-in-the-blanks "calcpad"-style form and well-designed calculation screens make input and results review the fastest in the industry.
	<b>Engineering Advice, Inc.</b> <a href="http://www.engineeringadvice.com">http://www.engineeringadvice.com</a> 561.241.3039	<b>LRFD Structural Design</b>	A tool for analysis and design of gravity load-resisting members in steel buildings based on the 2001 <i>LRFD Manual of Steel Construction</i> . Design features include tension and compression members, beams, and beam-columns. A bolted and welded connections module is comprehensive.
	<b>Engineous Software</b> <a href="http://www.engineous.com">http://www.engineous.com</a> 919.677.6700	<b>iSIGHT</b> <b>FIPER</b>	Manages the computer software required to execute simulation-based design processes, including commercial CAD/CAE software. Enables the rapid integration of these programs and automates their execution. Establishes a web-based, distributed engineering process infrastructure that allows organizations to access, execute, and reuse design tools and processes.
CD-ROM	<b>Georgia Tech - CASE Center</b> <a href="http://www.gtstrudl.gatech.edu">http://www.gtstrudl.gatech.edu</a> 404.894.2260	<b>GT STRUDL</b>	A database-driven structural analysis and design software system with integrated features for: linear and nonlinear, static, and dynamic frame and finite element analysis; steel and concrete frame design; and offshore jacket analysis and design.
CD-ROM	<b>Integrated Engineering Software</b> <a href="http://www.iesweb.com">http://www.iesweb.com</a> 800.707.0816	<b>VisualAnalysis Package</b>	Offers structural analysis and design for all jobs, large or small. Design beams, frames, trusses, and more. Includes graphics, professional reports, and free technical support.
		<b>ShapeBuilder</b>	Provides calculated geometric properties of built-up or cut-down structural members. Performs torsion analysis and stress analysis of cross sections, and finds composite, plastic, effective, and cracked structural properties.
		<b>Analysis Group</b>	Use Analysis Group to solve six everyday types of analysis problems without finite element modeling. Helps with beams, plates, tanks, shear walls, and footings and includes reporting capabilities.
		<b>QuickRDesign</b>	The "low-carb" version of VisualAnalysis. Designs beams or columns in steel or wood and analyzes concrete members.
CD-ROM	<b>Integrated Structural Software, Inc.</b> <a href="http://www.robot-structures.com">http://www.robot-structures.com</a> 888.477.8491	<b>ROBOT Millennium</b>	Structural analysis and design software. Facilities are within a single interface and include: frames, plates, shells, cables, dynamics, PDelta, and plasticity.
		<b>RCAD</b>	Detailing software based on AutoCAD with integrated links to and from ROBOT Millennium for analysis and design: RCAD Steel for 3D modeling of steel structures; RCAD Concrete for 2D concrete reinforcement detailing.
		<b>ESOP</b>	An everyday calculation tool on a Microsoft Excel platform. It has over 100 engineering modules, including integration with ROBOT Millennium software and user ability to define analysis and design modules.
CD-ROM	<b>Intergraph Proc., Pwr. &amp; Off.</b> <a href="http://ppo.intergraph.com/structural">http://ppo.intergraph.com/structural</a> 800.260.0246	<b>FrameWorks Plus 7.2</b>	Produces intelligent models and fabrication and detailing data packages. Use 3D model data for physical members, material takeoffs, and project reviews. Supports 3D modeling and drawing, fabrication and detailing of steel beams, columns, braces, cutouts, sleeves, concrete slabs and walls, and offshore marine structures.
	<b>King &amp; Associates LLC</b> <a href="http://www.spacegass.com">http://www.spacegass.com</a> 888.844.9608	<b>SPACE GASS</b>	A graphical based, 3D structural analysis and design program used in over 50 countries.
	<b>LUSAS</b> <a href="http://www.lusas.com">http://www.lusas.com</a> 44.20.8541.1999	<b>LUSAS Civil &amp; Structural</b>	Structural engineering analysis software with comprehensive facilities for all types of analysis including linear, non-linear, seismic, blast, buckling, impact, and fire. It can be used on a full range of structures.
		<b>LUSAS Bridge</b>	Bridge engineering analysis software with autoloader vehicle loading capability and comprehensive facilities for fundamental frequency, seismic, dynamic, large deflection, and fatigue analysis.
	<b>MDX Software</b> <a href="http://www.mdxsoftware.com">http://www.mdxsoftware.com</a> 573.446.3221	<b>Curved &amp; Straight Steel Bridge Design &amp; Rating</b>	Used for designing and rating curved and straight steel girder bridge superstructures for compliance with AASHTO ASD, LFD, and LRFD specifications.
	<b>MIDASoft, Inc.</b> <a href="http://www.MidasUser.com">http://www.MidasUser.com</a> 281.920.9958	<b>MIDAS/Civil</b>	3-D bridge analysis and design for post-tensioned, cable stayed, suspension, composite girder, slab, culvert, and frame types of all section shapes reflecting time dependent construction stages.
		<b>MIDAS/Gen</b>	An FE program with building structure features including: construction stages, column shortening, staged post-tensioning, auto lateral load and building generation, cable and nonlinear analyses, and design of RC and steel.
		<b>MIDAS/SDS</b>	Offers suspended slab and foundation mat auto design based on automatic finite element generation. Features include generation of elastic foundation, pile placement, reinforcing design, and more.
		<b>MIDAS/Set</b>	Software for steel and RC component design including: beam, regular, and irregular columns; linear and general I-shape shear walls; combined footing, retaining walls, composite beam, plate girder, crane girder, and web opening.
	<b>NYacad, Inc.</b> <a href="http://www.nyacad.com">http://www.nyacad.com</a> 646.369.9006	<b>Solid Structural</b>	3D steel AutoDetailing, AutoCAD-based software. Engineering layouts include steel framing and foundation plans, and sections and drawings of piece details in auto regime, with auto updated reports.
		<b>Quick Structural</b>	Features auto-generated steel framing and foundations plans, elevations, typical sections, and grids (AutoCAD). Includes a structural shapes database with a powerful calculator with search, selection, and calculation functions.
		<b>AcadCalcStair</b>	A free program for engineering calculations within AutoCAD and drafting tools. Mathematical operations include slopes and triangles calculations. Stairs include: parametrical modeling, calculations, and auto drafting.
	<b>Omnitech Associates</b> <a href="http://www.desconplus.com">http://www.desconplus.com</a> 510.658.8328	<b>DesconWin-ASD 4.0</b>	Steel connection design software per ASD method, including seismic provisions. Designs beam-to-column and beam-to-beam shear and moment connections, column, and beam splices.
		<b>DesconWin-LRFD 5.0</b>	Designs shear and moment connections and splices per LRFD method, including seismic provisions. FEMA-350 connections have been implemented in this version. Detailed calculation reports and design drawings can be produced.
		<b>Descon Brace-ASD and LRFD 4.0</b>	Designs connections of vertical bracing systems, including chevron braces, knee-braces, and braces connected to a column base and beam-column joints, producing detailed design calculations and drawings.

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	<b>Prokon USA</b> <a href="http://www.prokon.com">http://www.prokon.com</a> 620.640.1029	<b>Structural Analysis &amp; Design Software</b>	The Prokon suite of structural analysis and design software provides answers to structural and geotechnical engineering problems such as: frame and finite element analysis, steel member and connection design, reinforced and pre-stressed concrete design, reinforced concrete detailing, timber member design, and geotechnical analysis.
CD-ROM	<b>RAM International</b> <a href="http://www.ramint.com">http://www.ramint.com</a> 800.726.7789	<b>RAM Structural System</b>	A modeling, analysis, design, and drafting software platform for building structures. Newly released V9.0 includes tension-only members, vibration analysis per AISC Design Guide 11, and much more.
		<b>RAM CADstudio</b>	Works inside AutoCAD and helps streamline the generation, coordination, and review of construction drawings. Provides a continuous electronic flow of information between the engineers' analytical/design model and CAD drawings.
		<b>RAM Advanse</b>	A productive tool for general structures and structural components. New for V6.5 will be improved finite elements, graphics, and design tools for continuous beams and a concrete and masonry retaining wall module.
		<b>RAM Connection</b>	Stands alone for steel connection design and optimization, or fully integrated with RAM Structural System and RAM Advanse. New this year will be gusset plate design and generation of details in DXF format.
CD-ROM	<b>Research Engineers International</b> <a href="http://www.reiworld.com">http://www.reiworld.com</a> 800.367.7373	<b>STAAD.Pro 2004</b>	Features a state-of-the-art user interface, visualization tools, powerful analysis, and design engines with advanced finite element and dynamic analysis capabilities.
		<b>STAAD.foundation</b>	Enables engineers to analyze and design the underlying foundation for the structure including isolated or combined footings, true mat foundations, and pile cap arrangements and design.
		<b>STAAD.etc</b>	A comprehensive toolkit. Everything from the analysis and design of a structure, to designing the slabs, base plates, and footings for its foundation, can be done within its environment.
		<b>Tekla Structures w/ STAAD.Pro 2004</b>	A new 3D structural information management system. Integrates multi-material physical modeling structural elements with the structural analysis and design capabilities of STAAD.Pro 2004.
CD-ROM	<b>RISA Technologies</b> <a href="http://www.risatech.com">http://www.risatech.com</a> 800.367.7373	<b>RISAFloor</b>	Models floors, manages loads, optimizes beams and columns, and produces drawings. Integration with RISA-3D allows user to design both gravity and lateral systems from one model.
		<b>RISA-3D</b>	General purpose analysis and design software to model and optimize all types of structures. Design of steel, concrete, cold formed steel, and wood is supported.
		<b>RISA-2D</b>	General purpose, two-dimensional analysis and design software developed to model, solve, and optimize continuous beams, 2D trusses, 2D frames, and walls. Includes steel, concrete, wood, and cold-formed steel.
		<b>RISA Toolkit</b>	RISA Toolkit component RISAFoot optimizes spread footings, while RISABase optimizes base plates. The RISASection component builds sections and calculates properties for shape libraries used in RISA-3D, RISA-2D, or RISAFloor.
	<b>SAFI Quality Software, Inc.</b> <a href="http://www.safi.com">http://www.safi.com</a> 418.654.9454	<b>SAFI</b>	An integrated design program for steel composite, concrete, and aluminum structures. SAFI 3D engine performs static analysis, P-Delta, non-linear, modal, buckling, and finite elements. SAFI Steel designs according to American, Canadian, and European standards. Also available: SAFI Pre-tension, SAFI Tower, SAFI Steel and Wood Bridges, and more.
	<b>SOFTEK Services Ltd.</b> <a href="http://www.csc-softek.com">http://www.csc-softek.com</a> 604.273.7737	<b>S-FRAME®</b>	3D structural modeling and analysis featuring state-of-the-art graphical and spreadsheet interface, links to DXF, SDNF & VRML, etc. Simple to advanced analysis includes: P-Delta, non-linear, vibration, buckling, RSA, and time history.
<b>S-STEEL™</b>		3D steel design featuring: optimized auto-design or code-check; color-coded display of utilization and pass/fail status; and key results and material summaries output.	
<b>TEDDS®</b>		A Microsoft® Word-integrated or stand-alone calculation pad featuring Library of Automated Civil and Structural Engineering calculations, as well as engineering data lists and tools. Includes calculations and data for international codes.	
	<b>Stat-Ease, Inc.</b> <a href="http://www.statease.com">http://www.statease.com</a> 612.378.9449	<b>Design-Ease®</b>	Sets up and analyzes powerful general and two-level factorials that identify the critical factors for improvement of products and processes.
<b>Design-Expert®</b>		Includes all of the above, plus 3D response surface optimization for process, mixture, and combined mixture/process variables.	
	<b>The Steel Joist Institute</b> <a href="http://www.steeljoist.org">http://www.steeljoist.org</a> 843.626.1995	<b>Computer Vibration Program &amp; TD #5 (1992)</b>	A Windows-compatible DOS program developed by SJI to assist the qualified P.E. in determining probable transitory vibration characteristics for floor systems employing open web steel joist/concrete slab floor construction. Allows user to quickly calculate the frequency and amplitude resulting from transient vibration caused by human activity.
CD-ROM	<b>Structural Desktop, Inc.</b> <a href="http://www.structuraldesktop.com">http://www.structuraldesktop.com</a> 479.471.5227	<b>Structural Desktop Version 2.0</b>	Runs in AutoCAD. With this software, AutoCAD reads and writes STAAD, RISA, GT STRUDL, and SAP2000 files. Creates Architectural Desktop structural objects or AutoCAD DWG drawings.
	<b>Structural Engineers, Inc.</b> <a href="http://www.floorvibe.com">http://www.floorvibe.com</a> 540.731.3330	<b>FloorVibe</b>	Microsoft Windows-based software for floor vibration analysis according to the AISC/CISC <i>Design Guide 11, Floor Vibrations due to Human Activity</i> . Floors can be analyzed for walking and rhythmic activities.
	<b>Tekla</b> <a href="http://www.tekla.com">http://www.tekla.com</a> 877.TEKLA.OK	<b>Tekla Structures – Standard Design</b>	An intuitive multi-material, load, and connection modeling solution for visual design. Models can be exported to the analysis engine of choice. Analyzed models can be re-imported for automated design drawing creation.
<b>Tekla Structures – Engineering</b>		A fully integrated engineering analysis solution with intuitive modeling capabilities combined with load modeling functionality. Loaded design models are integrally analyzed inside this software.	
<b>Tekla Structures – Full Detailing</b>		The evolution of Xsteel with the ability to create comprehensive production models and fabrication/detail drawings for structural steel, pre-cast concrete, and CIP reinforced concrete elements.	
<b>Tekla Structures – Project Management</b>		Provides the ability to apply and automatically extract critical management attributes in all Tekla Structures-based models. Provides access to this information without the need to manipulate construction geometry.	
	<b>Tube Group, Univ. of Toronto</b> <b>416.978.4776</b>	<b>HSS_connex</b>	A program dedicated to HSS truss connection design that complements the AISC HSS Connections Manual. Scope extends to welded T, Y, K (gap and overlap), and KT truss connections. Full databases of cold-formed, round, square, and rectangular HSS members are included for the ASTM A500 specification and the CSA specification.
	<b>Vahe Mn</b> <b>98.21.8766394</b>	<b>Vahe Mn</b>	Intelligent design, generating alternative optimized I and box shape steel members, built-up from plates, subject to axial load and flexure, regard to the user-defined section dimensions limits.