

BIM benefits with greater transparency to the supply chain,” says Panesar. (See ad on page 44.)

Also hitting a niche market is crucial for Leroy Emkin, Founder and Co-Director of the CASE Center in Atlanta ([www.gtstrudl.gatech.edu](http://www.gtstrudl.gatech.edu)). The strength of GT STRUDL – its Structural Design & Analysis software programs for Architectural, Engineering /Construction (AEC), CAE/CAD, utilities, offshore, industrial, nuclear and civil works – has always been the power and high quality of its computations. He says that the nuclear industry, in particular, is interested in the software. “They’re interested based on a need for extreme quality, extreme computational performance, and very comprehensive user documentation,” says Emkin. The complete set of user documentation for GT STRUDL – including the quality assurance and quality control documents – consists of 30 volumes of documentation, over 13,000 pages.

The software is being improved continually, Emkin says. “We’re continuing to do developments in the area of non-linear analysis in order to make the performance of the rigorous direct analysis method, as described in the 13<sup>th</sup> edition AISE and the upcoming 14<sup>th</sup> edition AISE, feasible for all engineers, whether they be in commercial buildings or general civil structure or heavy industry. As more and more engineers become involved in non-linear analysis and, in particular, non-linear geometric analysis, we have implemented highly rigorous

non-linear geometric analysis procedures in GT STRUDL. We have substantially improved the computation performance to such a degree that, in our opinion, it is now highly feasible and cost-effective for engineers to perform that kind of analysis. We believe that if one does not use GT STRUDL, it could be quite a costly process.”



At Simpson Strong-Tie Anchor Systems ([www.simpsonanchors.com](http://www.simpsonanchors.com)), in Pleasanton, California, a manufacturer of wood-to-wood and wood-to-concrete connectors, the company has been doing a lot more engineering services, assisting engineers with their designs, and also focusing on new software tools. “For a long time, we’ve had software that helps customers pick the right joist hanger. That’s kind of simple,” says Paul McEntee, Manager of Engineering, Research and Development. “Now, we’ve been working a lot more to come up with things to help engineers do other jobs like their wall bracing design, for example. The new code has much more complicated design procedures for a lot of prescriptive residential designs. We’ve come up with tools just to help engineers get their designs done more efficiently.”







Their move into more engineering services is well timed. “We’re seeing things keep plugging along,” says McEntee. “We’re definitely seeing more questions on multi-family projects, and our engineering services design for the multi-family is picking up a lot more.” (See ads on pages 11 and 27.)■

A software guide for Structural Engineers



# SOFTWARE GUIDE

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	ADAPT-Builder Floor Pro MAT SOG	X		X			X	X						
<b>Applied Science International, LLC</b> Phone: 919-645-4090 Email: <a href="mailto:tdigirolamo@appliedscienceint.com">tdigirolamo@appliedscienceint.com</a> Web: <a href="http://www.appliedscienceint.com">www.appliedscienceint.com</a>	Extreme Loading for Structures	X	X	X		X	X	X	X	X			X	
	SteelSmart System			X		X			X	X		X	X	
<b>Bentley Systems</b> Phone: 800-236-8539 Email: <a href="mailto:structural@bentley.com">structural@bentley.com</a> Web: <a href="http://www.bentley.com">www.bentley.com</a>	 ProSteel V8i	X											X	
<b>CMC Steel Products</b> Phone: 972-772-0769 Email: <a href="mailto:marketing@cmc.com">marketing@cmc.com</a> Web: <a href="http://www.cmcsteelproducts.com">www.cmcsteelproducts.com</a>	RAM SBeam – CMC SMARTBEAM® Ver. 5.0												X	
<b>Computers &amp; Structures, Inc.</b> Phone: 510-649-2200 Email: <a href="mailto:info@csiberkeley.com">info@csiberkeley.com</a> Web: <a href="http://www.csiberkeley.com">www.csiberkeley.com</a>	 SAP2000, CSIBridge, ETABS, SAFE		X				X	X				X	X	

COMPANY NAME	SOFTWARE	BIM	BRIDGES	BUILDING COMPONENTS	BUSINESS/PRODUCTIVITY	CAD	CONCRETE	FOUNDATIONS/RETAINING WALLS	GENERAL/PACKAGES/SUITES	LIGHT GAUGE STEEL	MASONRY	PROJECT	STEEL	WOOD
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