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Making sure that condos were doing structural recertifications wasn't much of a priority for cities — until the Surfside tower fell. Now everyone's scrambling.

Fall of Surfside condo unleashes frenzy of enforcement action by building departments

Structural engineering software is engineering analysis software that include modules for finite element modeling, spreadsheet integration, computer-aided design (CAD), and visual representation ...

Engineering Analysis Software Information

Developed by Safi, GSE Wood is a general structural

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engineering ... visualizations with input spreadsheets. Its dynamic analysis feature allows architects and engineers to rapidly design wooden ...

Dedicated software helps AEC design professionals expedite the most complex timber construction projects

This article discusses how Bayside developed its own pre-modeled analysis tool for positioning systems using Excel spreadsheet software ... Dynamic analysis also helps engineers determine the effects ...

How to analyze positioning systems

Researchers at the University of Waterloo have come up with a new tool that uses artificial intelligence (AI) to analyze building inspection reports and help make spending decisions about structural ...

Waterloo researchers develop AI tool that analyzes building inspection reports

These models varied widely in complexity, from simple spreadsheets and internally ... and generates specific reports. Engineers repeat the structural analysis as many times as necessary to attain ...

Managing the Domino Effect in Product Development

Finite element structural and thermal analysis ... to allow traceability and consistency across engineers. Today, simulation data management is usually carried out by file naming conventions or ...

Simulation Data Management in Aerospace

In a post-Covid world where people will want to get on their bikes more. It's madness. It's a disgrace." - News ...

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'Vandalism:' Highways England slammed for pouring concrete into arches of Victorian railway bridge

His work crosses the boundaries of many disciplines and activities, with the interface between numerical analysis and hydraulic engineering, and including advances in computational and experimental ...

Department of Civil and Structural Engineering

"Let's face it, you cannot easily quantify an engineering team or manufacturing organization with a skill level on an Excel spreadsheet and easily determine whether a vendor is actually qualified to ...

Are purchasing agents hurting U.S. manufacturing?

Varied Design Needs The wide array of technologies employed in medical products can be a challenge to medtech product designers, sometimes requiring advanced capabilities in mechanical, electrical, ...

Compliant Design and Manufacturing

The appendices provide a quick introduction to advanced spreadsheet analysis and mathematical models which are essential for modern-day engineering practice.' Venkatesh Uddameri, Texas Tech University ...

Water Resources and Hydraulics

We are often placed in a building between two structural engineers -- often one for the moving roof ... As for other tools, we relied primarily on AutoCAD, the NEC, and spreadsheets. We also used ...

Mechatronics Meets Kinetic Architecture for Arizona Cardinals Stadium

Reducing the carbon emissions from our homes is one of the

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biggest political and engineering challenges we face in the journey to Net Zero. Ensuring that people have a choice of different appliances ...

Opinion: Tomorrow's heat is today's opportunity

Catheter material must be stiff enough to maintain structural and functional integrity and flexible enough to minimize discomfort and the chance of injury. Therefore, material selection becomes a key ...

DESIGN : Coronary Angioplasty Balloon Catheters: Designing for the Real World

My current interests include macro-economics, financial engineering and securities analysis ... often obscuring underlying structural strengths and weaknesses. Source: Tradingeconomics Finally ...

EFA: Europe, Australia, Far East Appear Worlds Apart In Hunt For Risk-Adjusted Returns

The collapse of the Champlain Towers South building in Surfside introduced a new term to the non-condo dweller's lexicon: 40-year recertification. Now, after the disaster in Surfside, everyone has ...

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