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Western Uranium & Vanadium Corp. is pleased to announce that it is preparing for the resumption of mining activities at the Sunday Mine Complex . This action is driven by COVID-19 risks declining and ...

Western Uranium & Vanadium Announces Mining Restart at the Sunday Mine Complex

The month of May can aptly be described as Diaspora month in Nigeria. This, apart from July 25, designated as National Diaspora Day ...

NIDCOM at two: Beyond expectations

Should aesthetics, as understood by the West, be the end-all and be-all of ... Yes, there are certain universal fundamentals of design that are mentioned in Western literature that are the guiding ...

ESSAY: AESTHETICS AND THE SOCIAL REALITY

With the recent publication of the Central Bank annual report 2020, we

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are now in a position to ascertain how the Sri Lanka economy performed during the previous decade (2010-2019) as well as the ...

Sri Lankan economy in serious decline

I am bearish on stocks and bonds and at the polar opposite of Mae West who once said ... the market's momentum than being grounded in hard fundamentals. Technical conditions seemed to setup ...

Kass: Bonds Are Now Criminally Overpriced

Structural trends highlighted by the magnetic data are dominantly east-west and northwest-southeast ... including without limitation, market fundamentals will result in sustained precious metals ...

Latin Metals Outlines Drill Targets at Aylen Project, Argentina

For Mr McLauchlan, who spent 16 years as a primary teacher across three local authorities, the release of another critical report on Scottish education is a time to reflect on fundamentals.

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Insight: How rank and file teachers feel about education reform in Scotland

The economy has the resilience and the fundamentals to bounce back from the pandemic and unshackle itself from pre-existing cyclical and structural ... of a normal south-west monsoon, recent ...

Economy continues to wrestle with the second wave of COVID-19; expect improvement in July: RBI

“With these encouraging tailwinds, our housing market outlook is very favorable and further supported by macroeconomic fundamentals ... 40% of lumber is used for structural repairs and ...

Timber REITs Have Had A Good Pandemic: 10 Things To Know

Trump reportedly planned a gradual escalation of trade pressure until China would be forced to make structural changes in its economic ... new cold war against the West. Beijing could not win the ...

Did China benefit from COVID-19?

Familiarity with the opposition did not help Fulham, West Brom or

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Sheffield United ... Ms Macdonald has a sound grasp of the fundamentals. As a wife to Scottish football journeyman Richard Foster ...

How to watch England vs Scotland: TV channel, kick-off time, live stream and when Euros highlights are on BBC

What we are facing today is not only a challenging market, but I think it is a structural change in our ... the Artemis offshore the west coast of the United States on its way crossing towards ...

Tsakos Energy Navigation Limited's (TNP) CEO Nikolas Tsakos on Q1 2021 Results - Earnings Call Transcript

This action is driven by COVID-19 risks declining and the improved fundamentals and outlook for uranium and vanadium commodities. The Sunday Mine, West Sunday Mine ... underinvestment in mine ...

The successful design and construction of iconic new buildings relies on a range of advanced technologies, in particular on advanced

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modelling techniques. In response to the increasingly complex buildings demanded by clients and architects, structural engineers have developed a range of sophisticated modelling software to carry out the necessary structural analysis and design work. Advanced Modelling Techniques in Structural Design introduces numerical analysis methods to both students and design practitioners. It illustrates the modelling techniques used to solve structural design problems, covering most of the issues that an engineer might face, including lateral stability design of tall buildings; earthquake; progressive collapse; fire, blast and vibration analysis; non-linear geometric analysis and buckling analysis . Resolution of these design problems are demonstrated using a range of prestigious projects around the world, including the Buji Khalifa; Willis Towers; Taipei 101; the Gherkin; Millennium Bridge; Millau viaduct and the Forth Bridge, illustrating the practical steps required to begin a modelling exercise and showing how to select appropriate software tools to address specific design problems.

Specifically designed as an introduction to the exciting world of engineering, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book

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begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Readers learn to master the basic principles of structural analysis using the classical approach found in Kassimali's distinctive STRUCTURAL ANALYSIS, 6th Edition. This edition presents structural analysis concepts in a logical order, progressing from an introduction of each topic to an analysis of statically determinate beams, trusses and rigid frames, and then to the analysis of statically indeterminate

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structures. Practical, solved problems integrated throughout each presentation help illustrate and clarify the book's fundamental concepts, while the latest examples and timely content reflect today's most current professional standards. Kassimali's STRUCTURAL ANALYSIS, 6th Edition provides the foundation needed for advanced study and professional success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The design of tall buildings and complex structures involves challenging activities, including: scheme design, modelling, structural analysis and detailed design. This book provides structural designers with a systematic approach to anticipate and solve issues for tall buildings and complex structures. This book begins with a clear and rigorous exposition of theories behind designing tall buildings. After this is an explanation of basic issues encountered in the design process. This is followed by chapters concerning the design and analysis of tall building with different lateral stability systems, such as MRF, shear wall, core, outrigger, bracing, tube system, diagrid system and mega frame. The final three chapters explain the design principles and analysis methods for complex and special structures. With this book, researchers and designers will

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find a valuable reference on topics such as tall building systems, structure with complex geometry, Tensegrity structures, membrane structures and offshore structures. Numerous worked-through examples of existing prestigious projects around the world (such as Jeddah Tower, Shanghai Tower, and Petronas Tower etc.) are provided to assist the reader's understanding of the topics. • Provides the latest modelling methods in design such as BIM and Parametric Modelling technique. • Detailed explanations of widely used programs in current design practice, such as SAP2000, ETABS, ANSYS, and Rhino. • Modelling case studies for all types of tall buildings and complex structures, such as: Buttressed Core system, diagrid system, Tube system, Tensile structures and offshore structures etc.

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the

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creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

The Book of R is a comprehensive, beginner-friendly guide to R, the world's most popular programming language for statistical analysis. Even if you have no programming experience and little more than a grounding in the basics of mathematics, you'll find everything you need to begin using R effectively for statistical analysis. You'll start with the basics, like how to handle data and write simple programs, before moving on to more advanced topics, like producing

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statistical summaries of your data and performing statistical tests and modeling. You'll even learn how to create impressive data visualizations with R's basic graphics tools and contributed packages, like ggplot2 and ggvis, as well as interactive 3D visualizations using the rgl package. Dozens of hands-on exercises (with downloadable solutions) take you from theory to practice, as you learn:

- The fundamentals of programming in R, including how to write data frames, create functions, and use variables, statements, and loops
- Statistical concepts like exploratory data analysis, probabilities, hypothesis tests, and regression modeling, and how to execute them in R
- How to access R's thousands of functions, libraries, and data sets
- How to draw valid and useful conclusions from your data
- How to create publication-quality graphics of your results

Combining detailed explanations with real-world examples and exercises, this book will provide you with a solid understanding of both statistics and the depth of R's functionality. Make The Book of R your doorway into the growing world of data analysis.

Designed to provide engineers with quick access to current and practical information on the dynamics of structure and foundation, this unique work, consisting of two separately available volumes, serves as a complete reference, especially for those involved with

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earthquake or dynamic analysis, or the design of machine foundations in the oil, gas, a

Known for its readability and systematic, rigorous approach, this fully updated Ninth Edition of FUNDAMENTALS OF ANALYTICAL CHEMISTRY offers extensive coverage of the principles and practices of analytic chemistry and consistently shows students its applied nature. The book's award-winning authors begin each chapter with a story and photo of how analytic chemistry is applied in industry, medicine, and all the sciences. To further reinforce student learning, a wealth of dynamic photographs by renowned chemistry photographer Charlie Winters appear as chapter-openers and throughout the text. Incorporating Excel spreadsheets as a problem-solving tool, the Ninth Edition is enhanced by a chapter on Using Spreadsheets in Analytical Chemistry, updated spreadsheet summaries and problems, an Excel Shortcut Keystrokes for the PC insert card, and a supplement by the text authors, EXCEL APPLICATIONS FOR ANALYTICAL CHEMISTRY, which integrates this important aspect of the study of analytical chemistry into the book's already rich pedagogy. New to this edition is OWL, an online homework and assessment tool that includes the Cengage YouBook, a fully customizable and interactive eBook, which enhances conceptual understanding through hands-on integrated multimedia interactivity.

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A comprehensive review of unit roots, cointegration and structural change from a best-selling author.

Partial least squares structural equation modeling (PLS-SEM) has become a standard approach for analyzing complex inter-relationships between observed and latent variables. Researchers appreciate the many advantages of PLS-SEM such as the possibility to estimate very complex models and the method's flexibility in terms of data requirements and measurement specification. This practical open access guide provides a step-by-step treatment of the major choices in analyzing PLS path models using R, a free software environment for statistical computing, which runs on Windows, macOS, and UNIX computer platforms. Adopting the R software's SEMinR package, which brings a friendly syntax to creating and estimating structural equation models, each chapter offers a concise overview of relevant topics and metrics, followed by an in-depth description of a case study. Simple instructions give readers the "how-tos" of using SEMinR to obtain solutions and document

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their results. Rules of thumb in every chapter provide guidance on best practices in the application and interpretation of PLS-SEM.

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