Structural Analysis Excel Programs

"Provides a cost-effective alternative to Finite Element software tools for soil and structural analysisGiving readers the tools to understand and analyse common problems in structural engineering, foundation engineering and soil-structure interaction, this book is accompanied by Excel Spreadsheets and employs the Visual Basic for Applications (VBA) macro programming language to allow a practical understanding. The book demystifies complex soil and structure applications using simple modelling techniques to present the essentials in a clear and concise way.It also shows the theory behind the programming of the finite element method, and how analysis using Excel spreadsheets and VBA macros can be used to test underlying assumptions of FEM tools. By providing an expert system and guidance to the reader in its use through examples, the text shows how an analysis of any structure or soil-structure system, regardless of complexity, can be conducted. It explains the operations being performed by all the computer programs in a general manner, and any limitations, simplifying assumptions, or approximations inherent in the method. The book also addresses some of the common problems and misunderstandings in the theory and practice of geo-engineering by providing tools to calculate deformations; implement soil-structure interaction procedures for many problems; provide reality checks on more complicated procedures; and enable proper implementation of soil and rock properties

in analyses. A hands-on reference enabling readers to efficiently solve problems in the analysis of geotechnical and structural systems using Excel and VBA macros Uniquely utilises Excel spreadsheets and programming tools to solve practical problems in soil-structure interaction in a cost-effective way Both a self-study guide and a reference, with extensive question and answer sections within chapters, to enable hands-on learning Includes an Appendix with solutions to practical civil engineering applications Companion website features Matlab coding, Excel spreadsheets and VBA macros "-- For introductory courses in Engineering and Computing Based on Excel 2007, Engineering with Excel, 3e takes a comprehensive look at using Excel in engineering. This book focuses on applications and is intended to serve as both a textbook and a reference for students.

Dependency analysis is increasingly used in computational linguistics and cognitive science. Surprisingly, compared with studies based on phrase structures, quantitative methods and dependency structure are rarely integrated in research.This is the first book that collects original contributions which quantitatively analyze dependency structures across different languages and text genres.

"This e-book is devoted to the use of spreadsheets in the service of education in a broad spectrum of disciplines: science, mathematics, engineering, business, and general education. The effort is aimed at collecting the works of prominent researchers and "

This textbook introduces the computer skills necessary for modern-day undergraduate and graduate students to succeed in economic and business analysis. This self-contained book features innovative applications of Excel commands, equations, formulas, and graphics. In addition, the exposition of the basic concepts, models, and interpretations are presented intuitively and graphically without compromising the rigor of analysis. The book contains numerous engaging and innovative examples and problem sets. Practical applications are also highlighted, including the introduction and discussion of key concepts. They show how Excel can be used to solve theoretical and practical problems. This book will be of interest to students, instructors, and researchers who wish to find out more about the applications of Excel in economics and business. The Instructor's manual is available upon request for all instructors who adopt this book as a course text. Please send your request to sales@wspc.com.
The Engineer's Tables refreshes the principles of the traditional calculations and show how to align MS Excel to produce engineering quality spreadsheets for excellent calculations.
This book is a general presentation of complex systems, examined from the point of view of management. There is no standard formula to govern such systems, nor to effectively understand and respond to them. The interdisciplinary theory of self-organization is teeming with examples of living systems that can reorganize at a higher level of complexity when confronted with an external challenge of a certain magnitude.

Modern businesses, considered as complex systems, ideally know how to flexibly and resiliently adapt to their environment, and also how to prepare for change via self-organization. Understanding sources of potential crisis is essential for leaders, though not all crises are necessarily bad news, as creative firms know how to respond to challenges through innovation: new products and markets, organizational learning for collective intelligence, and more.

Summary Tika in Action is a hands-on guide to content mining with Apache Tika. The book's many examples and case studies offer real-world experience from domains ranging from search engines to digital asset management and scientific data processing. About the Technology Tika is an Apache toolkit that has built into it everything you and your app need to know about file formats. Using Tika, your applications can discover and extract content from digital documents in almost any format, including exotic ones. About this Book Tika in Action is the ultimate guide to content mining using Apache Tika. You'll learn how to pull usable information from otherwise inaccessible sources, including internet media and file archives. This example-rich book teaches you to build and extend applications based on real-world experience with search engines, digital asset management, and scientific data processing. In addition to architectural overviews, you'll find detailed chapters on features like metadata extraction, automatic language detection, and custom parser development. This book is written for developers who are new to both Scala and Lift

and covers just enough Scala to get you started. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Crack MS Word, PDF, HTML, and ZIP Integrate with search engines, CMS, and other data sources Learn through experimentation Many examples This book requires no previous knowledge of Tika or text mining techniques. It assumes a working knowledge of Java.

======================================?== Table of Contents PART 1 GETTING STARTED The case for the digital Babel fish Getting started with Tika The information landscape PART 2 TIKA IN DETAIL Document type detection Content extraction Understanding metadata Language detection What's in a file? PART 3 INTEGRATION AND ADVANCED USE The big picture Tika and the Lucene search stack Extending Tika PART 4 CASE STUDIES Powering NASA science data systems Content management with Apache Jackrabbit Curating cancer research data with Tika The classic search engine example

This book provides basic information on the design of structures with tropical woods. It is intended primarily for teaching university- and college-level courses in structural design. It is also suitable as a reference material for practitioners. Although parts of the background material relate specifically to West and East Africa, the design principles apply to the whole of tropical Africa, Latin America and South Asia. The book is laced with ample illustrations including photographs of real life wood structures and structural

elements across Africa that make for interesting reading. It has numerous manual and Excel spread sheet worked examples and review questions that can properly guide a first-time designer of wooden structural elements. A number of design problems are also solved using the FORTRAN programming language. Topics covered in the thirteen chapters of the book include a brief introduction to the book, the anatomy and physical properties of tropical woods; a bri ef review of the mechanical properties of wood, timber seasoning and preservation, uses of wood and wood products in construction; basic theory of structures, and structural load computations; design of wooden beams, solid and built-up wooden columns, wood connections and wooden trusses; as well as a brief introduction to the design of wooden bridges.

Today's computers provide music theorists with unprecedented opportunities to analyze music more quickly and accurately than ever before. Where analysis once required several weeks or even months to complete¿often replete with human errors, computers now provide the means to accomplish these same analyses in a fraction of the time and with far more accuracy. However, while such computer music analyses represent significant improvements in the field, computational analyses using traditional approaches by themselves do not constitute the true innovations in music theory that computers offer. In Hidden Structure: Music Analysis Using Computers David Cope introduces a series of analytical processes that¿by virtue of their concept and design¿can be better, and in some cases, only accomplished by computer programs,

thereby presenting unique opportunities for music theorists to understand more thoroughly the various kinds of music they study.Following the introductory chapter that covers several important premises, Hidden Structure focuses on several unique approaches to music analysis offered by computer programs. While these unique approaches do not represent an all-encompassing and integrated global theory of music analysis, they do represent significantly more than a compilation of loosely related computer program descriptions. For example, Chapter 5 on function in post-tonal music, firmly depends on the scalar foundations presented in chapter 4. Likewise, chapter 7 presents a multi-tiered approach to musical analysis that builds on the material found in all of the preceding chapters. In short, Hidden Structure uniquely offers an integrated view of computer music analysis for today¿s musicians.

This book provides a self-contained presentation of the statistical tools required for evaluating public programs, as advocated by many governments, the World Bank, the European Union, and the Organization for Economic Cooperation and Development. After introducing the methodological framework of program evaluation, the first chapters are devoted to the collection, elementary description and multivariate analysis of data as well as the estimation of welfare changes. The book then successively presents the tools of ex-ante methods (financial analysis, budget planning, cost-benefit, cost-effectiveness and multi-criteria evaluation) and ex-post methods (benchmarking, experimental and quasi-experimental evaluation). The step-by-step approach and the

systematic use of numerical illustrations equip readers to handle the statistics of program evaluation. It not only offers practitioners from public administrations, consultancy firms and nongovernmental organizations the basic tools and advanced techniques used in program assessment, it is also suitable for executive management training, upper undergraduate and graduate courses, as well as for self-study.

The successful preservation of an historic building, complex or city depends on the continued use and daily care that come with it. The possibility of continued use depends on the adaptation of the building to modern standards and practice of living, requiring changes in constructional or structural features. Conservation engineering is the process of understanding, interpreting and managing the architectural heritage to safely deliver it to posterity, enhancing private or public utility vis a vis minimum loss of fabric and significance. These two objectives are sometimes conflicting. With increasing global interest in conservation engineering it is essential to open the debate on more inclusive definitions of significance and on more articulated concepts of safety by use of acceptable and reliable technologies, integrating further the activity of all the professions involved in conservation.

The first of its kind for budget-impact analysis, this comprehensive guide provides clear and concise instructions for evaluating the impact that new pharmaceuticals will have on the budget for a specific jurisdiction. The book demonstrates how to create a budget-impact analysis using a simple six-step process that is consistent with current

guidelines for these analyses. Examples and exercises for each chapter afford an opportunity to practice the six-step process in practical applications. The book progresses from a framework for budget impact analyses to an in-depth review of components and how to develop and present these in software applications and reports. Critical considerations such as uncertainty analysis and validation, and considerations for alternate interventions, such as vaccines and diagnostics, are also covered. This book is a "must have" for the builder and budget holder, with builders benefiting from instructions to identify and estimate all necessary variables and budget holders receiving a guide to what should be included in the analyses they assess. Developed by the authors, generalized structured component analysis is an alternative to two longstanding approaches to structural equation modeling: covariance structure analysis and partial least squares path modeling. Generalized structured component analysis allows researchers to evaluate the adequacy of a model as a whole, compare a model to alternative specifications, and conduct complex analyses in a straightforward manner. Generalized Structured Component Analysis: A Component-Based Approach to Structural Equation Modeling provides a detailed account of this novel statistical methodology and its various extensions. The authors present the theoretical underpinnings of generalized structured component analysis and demonstrate how it can be applied to various empirical examples. The book enables quantitative methodologists, applied researchers, and practitioners to grasp the basic

concepts behind this new approach and apply it to their own research. The book emphasizes conceptual discussions throughout while relegating more technical intricacies to the chapter appendices. Most chapters compare generalized structured component analysis to partial least squares path modeling to show how the two component-based approaches differ when addressing an identical issue. The authors also offer a free, online software program (GeSCA) and an Excel-based software program (XLSTAT) for implementing the basic features of generalized structured component analysis.

As with the first edition, this textbook provides a clear introduction to the fundamental theory of structural analysis as applied to vehicular structures such as aircraft, spacecraft, automobiles and ships. The emphasis is on the application of fundamental concepts of structural analysis that are employed in everyday engineering practice. All approximations are accompanied by a full explanation of their validity. In this new edition, more topics, figures, examples and exercises have been added. There is also a greater emphasis on the finite element method of analysis. Clarity remains the hallmark of this text and it employs three strategies to achieve clarity of presentation: essential introductory topics are covered, all approximations are fully explained and many important concepts are repeated.

How do the experiences of people who have different bodies (deaf versus hearing) shape their thoughts and metaphors? Do different linguistic modes of expression

(signed versus spoken) have a shaping force as well? This book investigates the metaphorical production of culturally-Deaf translators who work from English to American Sign Language (ASL). It describes how Event Structure Metaphors are handled across languages of two different modalities. Through the use of corpus-based evidence, several specific questions are addressed: are the main branches of Event Structure Metaphors – the Location and Object branches – exhibited in ASL? Are these two branches adequate to explain the event-related linguistic metaphors identified in the translation corpus? To what extent do translators maintain, shift, add, and omit expressions of these metaphors? While answering these specific questions, this book makes a significant elaboration to the two-branch theory of Event Structure Metaphors. It raises larger questions of how bilinguals handle competing conceptualizations of events and contributes to emerging interest in how body specificity, linguistic modes, and cultural context affect metaphoric variability.

For over 20 years, Software Engineering: A Practitioner's Approach has been the best selling guide to software engineering for students and industry professionals alike. The sixth edition continues to lead the way in software engineering. A new Part 4 on Web Engineering presents a complete engineering approach for the analysis, design, and testing of Web Applications, increasingly important for today's students. Additionally, the UML coverage has been enhanced and signficantly increased in this new edition. The pedagogy has also been improved

in the new edition to include sidebars. They provide information on relevant softare tools, specific work flow for specific kinds of projects, and additional information on various topics. Additionally, Pressman provides a running case study called "Safe Home" throughout the book, which provides the application of software engineering to an industry project. New additions to the book also include chapters on the Agile Process Models, Requirements Engineering, and Design Engineering. The book has been completely updated and contains hundreds of new references to software tools that address all important topics in the book. The ancillary material for the book includes an expansion of the case study, which illustrates it with UML diagrams. The On-Line Learning Center includes resources for both instructors and students such as checklists, 700 categorized web references, Powerpoints, a test bank, and a software engineering library-containing over 500 software engineering papers.TAKEAWY HERE IS THE FOLLOWING:1. AGILE PROCESS METHODS ARE COVERED EARLY IN CH. 42. NEW PART ON WEB APPLICATIONS --5 CHAPTERS Millions of users create and share Excel spreadsheets every day, but few go deeply enough to learn the techniques that will make their work much easier. There are many ways to take advantage of Excel's advanced capabilities without spending hours on advanced study. Excel Hacks provides more than 130 hacks

-- clever tools, tips and techniques -- that will leapfrog your work beyond the ordinary. Now expanded to include Excel 2007, this resourceful, roll-up-your-sleeves guide gives you little known "backdoor" tricks for several Excel versions using different platforms and external applications. Think of this book as a toolbox. When a need arises or a problem occurs, you can simply use the right tool for the job. Hacks are grouped into chapters so you can find what you need quickly, including ways to: Reduce workbook and worksheet frustration -- manage how users interact with worksheets, find and highlight information, and deal with debris and corruption. Analyze and manage data -- extend and automate these features, moving beyond the limited tasks they were designed to perform. Hack names -- learn not only how to name cells and ranges, but also how to create names that adapt to the data in your spreadsheet. Get the most out of PivotTables -- avoid the problems that make them frustrating and learn how to extend them. Create customized charts -- tweak and combine Excel's built-in charting capabilities. Hack formulas and functions -- subjects range from moving formulas around to dealing with datatype issues to improving recalculation time. Make the most of macros -- including ways to manage them and use them to extend other features. Use the enhanced capabilities of Microsoft Office 2007 to combine Excel with Word, Access, and Outlook. You can either browse through

the book or read it from cover to cover, studying the procedures and scripts to learn more about Excel. However you use it, Excel Hacks will help you increase productivity and give you hours of "hacking" enjoyment along the way. Provides a blueprint for researchers to follow in a wide variety of investigations. Introduces an alternative approach to conducting author cocitation analysis (ACA) without relying on commercial citation databases. Structural Analysis of Historical Constructions contains about 160 papers that were presented at the IV International Seminar on Structural Analysis of Historical Constructions that was held from 10 to 13 November, 2004 in Padova Italy. Following publications of previous seminars that were organized in Barcelona, Spain (1995 and 1998) and Guimarães, Portugal (2001), state-of-the-art information is presented in these two volumes on the preservation, protection, and restoration of historical constructions, both comprising monumental structures and complete city centers. These two proceedings volumes are devoted to the possibilities of numerical and experimental techniques in the maintenance of historical structures. In this respect, the papers, originating from over 30 countries, are subdivided in the following areas: Historical aspects and general methodology, Materials and laboratory testing, Non-destructive testing and inspection techniques, Dynamic behavior and structural monitoring,

Analytical and numerical approaches, Consolidation and strengthening techniques, Historical timber and metal structures, Seismic analysis and vulnerability assessment, Seismic strengthening and innovative systems, Case studies. Structural Analysis of Historical Constructions is a valuable source of information for scientists and practitioners working on structure-related issues of historical constructions

This book prepares readers to analyze data and interpret statistical results using R more quickly than other texts. R is a challenging program to learn because code must be created to get started. To alleviate that challenge, Professor Gerbing developed lessR. LessR extensions remove the need to program. By introducing R through less R, readers learn how to organize data for analysis, read the data into R, and produce output without performing numerous functions and programming exercises first. With lessR, readers can select the necessary procedure and change the relevant variables without programming. The text reviews basic statistical procedures with the lessR enhancements added to the standard R environment. Through the use of lessR, R becomes immediately accessible to the novice user and easier to use for the experienced user. Highlights of the book include: Quick Starts that introduce readers to the concepts and commands reviewed in the chapters. Margin notes that

highlight,define,illustrate,and cross-reference the key concepts.When readers encounter a term previously discussed, the margin notes identify the page number to the initial introduction. Scenarios that highlight the use of a specific analysis followed by the corresponding R/lessR input and an interpretation of the resulting output. Numerous examples of output from psychology, business, education, and other social sciences, that demonstrate how to interpret results. Two data sets provided on the website and analyzed multiple times in the book, provide continuity throughout. End of chapter worked problems help readers test their understanding of the concepts. A website at www.lessRstats.com that features the lessR program, the book's data sets referenced in standard text and SPSS formats so readers can practice using R/lessR by working through the text examples and worked problems, PDF slides for each chapter, solutions to the book's worked problems, links to R/lessR videos to help readers better understand the program, and more. An ideal supplement for graduate or advanced undergraduate courses in statistics, research methods, or any course in which R is used, taught in departments of psychology, business, education, and other social and health sciences, this book is also appreciated by researchers interested in using R for their data analysis. Prerequisites include basic statistical knowledge. Knowledge of R is not assumed.

"This book presents cutting-edge research and analysis of the most recent advancements in the fields of database systems and software development"--Provided by publisher.

Engineering design is enhanced by adding optimisation methods. Their influence cannot be over-emphasised. The resulting solutions provide an efficient way of dealing with some of the most difficult challenges in engineering practice today.Containing papers presented at the Tenth International Conference on this successful series on Optimum Design in Engineering, this book examines the recent development in advanced types of structures, particularly those based on new concepts and new types of materials resulting in optimum solutions. Particular emphasis is placed on computational methods to model, control and manage new structural solutions and material types. Featured topics include: Optimisation and Manufacturing; Structural Optimisation; Optimisation in Biomechanics; Shape and Topology Optimisation; Industrial examples of Design Optimisation; Fluid Structure Interaction; Damage and Fracture Mechanics; Composite Materials Optimisation; Optimum behavior of Fiber Reinforced Polymers; Aerospace Structures; Applications in Mechanical and car engineering; New Algorithms.

This book gathers papers presented at the 22nd International Conference on

Interactive Collaborative Learning (ICL2019), which was held in Bangkok, Thailand, from 25 to 27 September 2019. Covering various fields of interactive and collaborative learning, new learning models and applications, research in engineering pedagogy and project-based learning, the contributions focus on innovative ways in which higher education can respond to the real-world challenges related to the current transformation in the development of education. Since it was established, in 1998, the ICL conference has been devoted to new approaches in learning with a focus on collaborative learning. Today, it is a forum for sharing trends and research findings as well as presenting practical experiences in learning and engineering pedagogy. The book appeals to policymakers, academics, educators, researchers in pedagogy and learning theory, school teachers, and other professionals in the learning industry, and further and continuing education.

This essential book introduces the concept of nD modelling, which takes the theory of computer modelling of the built environment to n dimensions. nD modelling utilizes a decision support tool for systematic assessment and comparison between various design parameters such as cost, accessibility, maintainability, sustainability, crime, energy, whole life costing, acoustics and scheduling among others. Constructing the Future is a comprehensive book which provides a global perspective on the concept of nD modelling and examines its impact on construction, from development to application. The text offers a critique of competing views

that seek to justify (or ignore) the role of nD modelling in the future of construction as well as describing developments in this area which are already happening worldwide. Presenting a thorough critique of competing views as well as providing guidance on best practice, Constructing the Future is a bold, well-grounded and illustrated title introducing construction management professionals and researchers to this exciting new development in the quest for a single building and product model.

A new analytical method that uses the capacity axis of a section to determine its minimum capacity for biaxial bending as well as provide the reference for equilibrium of external and internal forces has been developed. Introducing this method, Structural Analysis: The Analytical Method illustrates the procedures for predicting the capacities of circular and rectangular sections in concrete and steel materials. By applying basic mathematics to the standard principles in structural analysis, the author derived for the first time all the equations required for solving the true capacity of circular and rectangular sections in structural design. Previous authors have been unable to employ basic mathematics and thus resorted to approximate methods, such as the standard interaction formula for biaxial bending or more sophisticated methods illustrated in current literature on the subject of determining the capacity of above structural sections. The book begins with a discussion of the capacities of rectangular and circular footing foundation for a given allowable soil-bearing pressure followed by the author's latest integration of the Boussinesq's elastic equation for the dispersion of surface loads in determining the exact average pressure to use in the standard soil settlement formula. The author provides all the equations and tabulated values of key point's capacities of commercially-produced steel pipe, rectangular tubing, and steel I-sections. He then lists the

derived equations for the determination of the ultimate strength capacity curve of reinforced concrete columns and concrete-filled tubular columns without using the rectangular stress block method of analysis. Elucidating an elegant, straightforward, and precise method, thus limiting guesswork, this book makes it easier to confirm the adequacy and safety of designs by direct comparison of the external loads to the internal capacities of circular and rectangular sections in structural analysis and design.

Big data, analytics, and artificial intelligence are revolutionizing work, management, and lifestyles and are becoming disruptive technologies for healthcare, e-commerce, and web services. However, many fundamental, technological, and managerial issues for developing and applying intelligent big data analytics in these fields have yet to be addressed. Managerial Perspectives on Intelligent Big Data Analytics is a collection of innovative research that discusses the integration and application of artificial intelligence, business intelligence, digital transformation, and intelligent big data analytics from a perspective of computing, service, and management. While highlighting topics including e-commerce, machine learning, and fuzzy logic, this book is ideally designed for students, government officials, data scientists, managers, consultants, analysts, IT specialists, academicians, researchers, and industry professionals in fields that include big data, artificial intelligence, computing, and commerce.

Advances and Trends in Structural Engineering, Mechanics and Computation features over 300 papers classified into 21 sections, which were presented at the Fourth International Conference on Structural Engineering, Mechanics and Computation (SEMC 2010, Cape Town, South Africa, 6-8 September 2010). The SEMC conferences have been held every 3 years in "The BIM Handbook is an extensively researched and meticulously written book, showing

evidence of years of work rather than something that has been quickly put together in the course of a few months. It brings together most of the current information about BIM, its history, as well as its potential future in one convenient place, and can serve as a handy reference book on BIM for anyone who is involved in the design, construction, and operation of buildings and needs to know about the technologies that support it. The need for such a book is indisputable, and it is terrific that Chuck Eastman and his team were able to step up to the plate and make it happen. Thanks to their efforts, anyone in the AEC industry looking for a deeper understanding of BIM now knows exactly where to look for it." —AECbytes book review, August 28, 2008 (www.aecbytes.com/review/2008/BIMHandbook.html) DISCOVER BIM: A BETTER WAY TO BUILD BETTER BUILDINGS Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Second Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Completely updated material covering the current practice and technology in this fast-moving field Expanded coverage of lean construction and its use of BIM, with special focus on Integrated Project Delivery throughout the book New insight on the ways BIM facilitates sustainable building New information on interoperability schemas and collaboration tools Six new case studies Painting a colorful and thorough picture of the state of the art in building

information modeling, the BIM Handbook, Second Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

This book focuses on innovative strategies to manage and build software systems for generating new knowledge from large archaeological data sets The book also reports on two case studies carried out in real-world scenarios within the Cultural Heritage setting. The book presents an original conceptual framework for developing software solutions to assist the knowledge generation process in connection with large archaeological data sets and related cultural heritage information— a context in which the inputs are mainly textual sources written in freestyle, i.e. without a predetermined, standard structure. Following an in-depth exploration of recent works on the knowledge generation process in the above-mentioned context and IT-based options for facilitating it, the book proposes specific new techniques capable of capturing the structure and semantics implicit in such textual sources, and argues for using this information in the knowledge generation process. The main result is the development of a conceptual framework that can accommodate textual sources and integrate the information included in them into a software engineering framework. The said framework is meant to assist cultural heritage professionals in general, and archaeologists in particular, in both knowledge extraction and the subsequent decision-making process.

Recent surveys of the U.S. infrastructure's condition have rated a staggering number of bridges structurally deficient or functionally obsolete. While not necessarily unsafe, a structurally deficient bridge must be posted for weight and have limits for speed, due to its

deteriorated structural components. Bridges with old design features that canno
Written for the upper-level undergraduate or graduate level course for students pursing a
degree in Sports and Recreation Management, Human Resources in Sports: A Managerial
Approach presents practical applications used by industry professionals in the areas of
performance evaluation, benefits administration, candidate selection, employee discipline
tactics, and much more. A wealth of information is provided by the authors who share a rich
history of real-world sports experience as the former Human Resource Manager for a
professional National Hockey League (NHL) franchise and an administrator for a Division II
institution belonging to the National Collegiate Athletics Association (NCAA). Every chapter
features multiple case studies, industry voices, a global spotlight, discussion topics, and
applied activities that emphasize the fusion of human resource management and sports.
The second edition of this best-selling Python book (over 500,000 copies sold!) uses Python 3
to teach even the technically uninclined how to write programs that do in minutes what would
take hours to do by hand. There is no prior programming experience required and the book is
loved by liberal arts majors and geeks alike. If you've ever spent hours renaming files or
updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But
what if you could have your computer do them for you? In this fully revised second edition of
the best-selling classic Automate the Boring Stuff with Python, you'll learn how to use Python
to write programs that do in minutes what would take you hours to do by hand--no prior
programming experience required. You'll learn the basics of Python and explore Python's rich
library of modules for performing specific tasks, like scraping data off websites, reading PDF
and Word documents, and automating clicking and typing tasks. The second edition of this

international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on automatically updating CSV files. You'll learn how to create programs that effortlessly perform useful feats of automation to: • Search for text in a file or across multiple files • Create, update, move, and rename files and folders • Search the Web and download online content • Update and format data in Excel spreadsheets of any size • Split, merge, watermark, and encrypt PDFs • Send email responses and text notifications • Fill out online forms Step-by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks. Don't spend your time doing work a well-trained monkey could do. Even if you've never written a line of code, you can make your computer do the grunt work. Learn how in Automate the Boring Stuff with Python, 2nd Edition.

The book presents research papers presented by academicians, researchers, and practicing structural engineers from India and abroad in the recently held Structural Engineering Convention (SEC) 2014 at Indian Institute of Technology Delhi during 22 – 24 December 2014. The book is divided into three volumes and encompasses multidisciplinary areas within structural engineering, such as earthquake engineering and structural dynamics, structural mechanics, finite element methods, structural vibration control, advanced cementitious and composite materials, bridge engineering, and soil-structure interaction. Advances in Structural Engineering is a useful reference material for structural engineering fraternity including undergraduate and postgraduate students, academicians, researchers and practicing engineers.

Workflows are being rethought and remodelled across the architecture, engineering and construction (AEC) spectrum. The synthesis of building information modelling (BIM) platforms with digital simulation techniques and increasing access to data, charting building performance, is allowing architects to engage in the generation of new workflows across multidisciplinary teams. By merging digital design operations with construction activities, project delivery and post-occupation scenarios, architects are becoming instrumental in the shaping of buildings as well as the design process. Workflows expand the territory of architectural practice by extending designers' remit beyond the confines of the design stage. The implications for the AEC industry and architecture as a profession could not be greater. These new collaborative models are becoming as important as the novel buildings they allow us to produce. Contributors include: Shajay Bhooshan, John Cays, Randy Deutsch, Sean Gallagher, Ian Keough, Peter Kis, Jonathan Mallie, Adam Modesitt, Rhett Russo, Dale Sinclair, and Stacie Wong. Featured architects: Arup, Diller Scofidio + Renfro, GLUCK+, GRO Architects, PLANT, Populous, Young & Ayata, and Zaha Hadid Architects.
An exploration of the relationship between XML and Office 2003, examining how the various products in the Office suite both produce and consume XML. Beginning with an overview of the XML features included in the various Office 2003 components, it provides guidance on how to import or export information from Office documents into other systems.

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